FLORIDA INTERNATIONAL UNIVERSITY

MODESTO A. MAIDIQUE CAMPUS
11200 SW 8th Street
Miami, Florida 33199
305-348-2000

BISCAYNE BAY CAMPUS
3000 NE 151st Street
North Miami, Florida 33181
305-919-5500

FIU at I-75
17195 Sheridan Street
Pembroke Pines, Florida 33331
954-438-8600

ENGINEERING CENTER
10555 W. Flagler Street
Miami, Florida 33174
305-348-3034

EMERGENCY - DIAL 911

AREA CODES:
Modesto A. Maidique Campus phone numbers begin with area code 305
Biscayne Bay Campus phone numbers begin with area code 305
FIU Broward-Pines Center phone numbers begin with area code 954
Engineering Center numbers begin with area code 305

From any FIU campus, dial FIU numbers direct:
All Modesto A. Maidique Campus phone numbers 7-xxxx
All Biscayne Bay Campus phone numbers 6-xxxx
All FIU at I-75 phone numbers 6-xxxx
All Engineering Center numbers 7-xxxx

Florida International University

Member of the State University System
Miami, Florida

2022-2023 UNIVERSITY GRADUATE CATALOG

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FIU and Florida International University are registered marks. Florida International University believes in equal opportunity practices which conform to all laws against discrimination and is committed to nondiscrimination with respect to race, color, creed, age, handicap, sex, marital status, religion, or national origin. Additionally, the University is committed to the principle of taking the positive steps necessary, to achieve the equalization of educational and employment opportunities.

Note: The programs, policies, requirements, regulations published in this catalog are continually subject to review in order to serve the needs of the University's various constituencies and to respond to the mandates of the State Board of Education and the Florida Legislature. Changes in programs, policies, requirements, and regulations may be made without advance notice. **The ultimate responsibility for knowing degree requirements imposed upon students by State laws rests with students.**

Fees given in this catalog are tentative pending legislative action.

MAILING ADDRESS GRADUATE AND INTERNATIONAL ADMISSIONS
Florida International University
Modesto A. Maidique Campus, SASC 126
Miami, Florida 33199

GRADUATE ADMISSIONS WEBSITE:
https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html

EMAIL ADDRESS: gradadm@fiu.edu

MAILING ADDRESS UNIVERSITY GRADUATE SCHOOL
University Graduate School
Modesto A. Maidique Campus, MARC 240
Miami, Florida 33199

UNIVERSITY GRADUATE SCHOOL WEBSITE:
http://gradschool.fiu.edu

EMAIL ADDRESS: ugs@fiu.edu

Interim President Kenneth A. Jessell

Dear Graduate Students:

Welcome to FIU!

As the fourth largest public research university in the country, FIU plays a critical role in the future of our community and nation. Our students, faculty, staff, and alumni have a shared sense of purpose - we want to leave this world a better place than we found it.

We demonstrate this commitment by standing up to some of society's most pressing concerns – addressing sea-level rise and extreme weather events, engaging in innovative research in the tech and health sectors, contributing to conversations on transportation, politics, and infrastructure improvements, and more. We have a special kind of drive and determination to make a difference when and where it matters.

In fact, we are constantly accelerating our research. Our institution, a top public university with very high research (R1) activity, drives real talent and innovation in Miami and globally, combining research excellence and social mobility to uplift and accelerate learner success in a global city. With a focus on student success, innovation and societal progress, FIU has risen in the rankings, with dozens of programs among the best in the nation including the MBA international business at #8, according to *U.S. News and World Report*.

We offer nationally and internationally recognized bachelor's, master's, specialist, and doctoral degree programs in business, engineering, nursing, public health, architecture and other disciplines.

At our Wall of Wind, FIU researchers can test entire structures at full-scale, leading to performance-based design for hurricanes through direct correlation of wind speed with performance and damage levels. Our Steven J. Green School of International and Public Affairs, recently granted full membership into the Association of Professional Schools of International Affairs (APSIA), consistently produces globally engaged citizens and reinforces our role as a university of international impact. Through FIU's three museums - Patricia & Phillip Frost Art Museum, the Wolfsonian-FIU, and the Jewish Museum of Florida-FIU – our university is committed to supporting the arts and cultural engagement.

All that we do at FIU is focused on being innovative, relevant, and solutions-driven.

We are so honored to welcome you to the FIU family!

Dean Andrés G. Gil

Dear Graduate Students:

We welcome you and encourage you to explore the many offerings of our graduate programs at FIU.

Our university has the highest Carnegie Research Classification, “Research I: Very High Research Activity.” The reputation of a research university is based, in large part, on the quality of its graduate faculty. However, our graduate students are also key contributors to FIU’s reputation and active contributors to the university’s intellectual and creative environment. Through its graduate faculty members, FIU offers graduate programs of the highest quality.

FIU is a young, vibrant, and diverse university with a graduate population of more than 9,000 students and an overall enrollment of more than 58,000 students. The Graduate Catalog provides information and resources to those interested in graduate education programs at FIU, including the full range of programs and courses available. We offer a wide range of graduate programs to satisfy virtually every personal or professional pursuit. We have over 130 graduate degree programs, including an extensive array of doctoral, master’s, and specialist degrees, and graduate-level certificate programs. We have an active Graduate Student Association and other avenues for graduate involvement on campus through the University Graduate School and other student services offices.

At FIU, we take pride in designing graduate programs that prepare our students to be future leaders in their fields and to be knowledge creators. Our graduate faculty are innovative scholars, producing new discoveries to solve the challenges facing our nation and the world. Our focus on research-integrated graduate curricula, and the rich cultural diversity of our campus and South Florida, provide graduate students with the most exciting and dynamic learning environment at FIU.

FIU also offers excellent infrastructure for cutting-edge graduate work. We have modern, well-equipped laboratories, and ample computer facilities and support. We also boast one of the largest libraries in Florida’s State University System. All of this is available to our graduate students to help them achieve their goals in a timely manner and obtain the postgraduate appointments they desire. We also have excellent professional training and development opportunities designed to prepare the graduate students for success in their chosen careers.

We are glad you have chosen to be a part of our rich academic culture, and we are committed to providing you with the most stimulating learning environment.

Academic Calendar 2022-2023

FALL 2022

August 22 – December 10, 2022

GENERAL DATES AND DEADLINES

March 7 Monday	Class schedule available to all returning undergraduate and graduate students for Summer & Fall 2022 terms
March 22 – April 25 Tues - Mon	Official registration for degree-seeking students by assigned registration time and day
July 19 Tuesday	First day to apply for Fall 2022 term graduation
August 18 Thursday	Non-degree seeking student registration begins
August 26 Friday	Last day to submit Non-degree Application for Fall 2022 term
September 11 Sunday	Last day to apply for graduation at the end of Fall 2022 term
TBA	Commencement Exercises – Please refer to https://commencement.fiu.edu/
December 23 Friday	Winter Break 1 (University closed)
December 26 Monday	Christmas Day Observed (University closed)
December 30 Friday	Winter Break 2 (University closed)
January 2 Monday	New Year's Day Observed (University closed)

MAIN SESSION

August 22 – December 10, 2022
Final Week of Term: December 5 – 10, 2022

April 26 – August 21 Tues - Sun	Open registration for degree-seeking students
August 21 Sunday	Last day to register without incurring a $100 late registration fee
August 22 Monday	Classes begin Short Term Tuition Loan Applications available
August 29 Monday	Last day to add courses; last day to drop courses or withdraw from the University without incurring financial liability for tuition and fees Last day to change grading option
August 30 Tuesday	Fall "C" tuition payment due Last day to submit an appeal for the repeat surcharge fee Last day for students to apply for a Short Term Loan
August 31 Wednesday	$100 late payment fee assessed for outstanding balances
September 2 Friday	Cancellation of enrollment for unpaid tuition and fee balances not covered by payment plan, scholarships or other awards
September 5 Monday	Labor Day (University closed)
September 6 – 9 Tues - Fri	Reinstatement after cancellation for non-payment
September 16 Friday	Last day to withdraw from the University with a 25% refund of tuition
October 27 Thursday	Fall "C" Return of Title IV deadline for financial aid recipients
October 31 Monday	Last day to drop a course with a DR grade Last day to withdraw from the University with a WI grade Last day to submit petition for removal of Spring 2022 courses
November 11 Friday	Veterans Day (University closed)
November 24 Thursday	Thanksgiving Day (University closed)
November 25 – 26 Fri - Sat	Thanksgiving Break (University closed)
December 3 Saturday	Classes end
December 5 – 10 Mon - Sat	Final week of the term - modified class schedule: final exams and other course assessment activities are scheduled during this week
December 10 Saturday	End of term
December 14 Wednesday	Deadline (by 11:59 p.m.) for faculty to submit grades
December 15 Thursday	Fall "C" grades available for students

SESSION A

August 23 – October 9, 2022

March 7 Monday	Class schedule available to all returning undergraduate and graduate students for Summer & Fall 2022 terms
March 22 – April 25 Tues - Mon	Official registration for degree-seeking students by assigned registration time and day
April 26 – August 21 Tues - Sun	Open registration for degree-seeking students
July 19 Tuesday	First day to apply for Fall 2022 term graduation
August 18 Thursday	Non-degree seeking student registration begins
August 21 Sunday	Last day to register without incurring a $100 late registration fee
August 22 Monday	Classes begin Short Term Tuition Loan Applications available
August 26 Friday	Last day to submit Non-degree Application for Fall 2022 term
August 29 Monday	Last day to add courses; last day to drop courses or withdraw from the University without incurring financial liability for tuition and fees Last day to change grading option
August 30 Tuesday	Fall “A” tuition payment due Last day to submit an appeal for the repeat surcharge fee Last day for students to apply for a Short Term Loan
August 31 Wednesday	$100 late payment fee assessed for outstanding balances
September 2 Friday	Cancellation of enrollment for unpaid tuition and fee balances not covered by payment plan, scholarships or other awards Last day to withdraw from the University with a 25% refund of tuition
September 5 Monday	Labor Day (University closed)
September 6 – 9 Tues - Fri	Reinstatement after cancellation for non-payment
September 11 Sunday	Last day to apply for graduation at the end of Fall 2022 term
September 19 Monday	Last day to drop a course with a DR grade Last day to withdraw from the University with a WI grade Fall “A” Return of Title IV deadline for financial aid recipients
October 8 Saturday	Classes end
October 12 Wednesday	Deadline (by 11:59 p.m.) for faculty to submit grades
October 13 Thursday	Fall “A” grades available for students

SESSION B

October 18 - December 4, 2022

March 7 Monday	Class schedule available to all returning undergraduate and graduate students for Summer & Fall 2022 terms
March 22 – April 25 Tues - Mon	Official registration for degree-seeking students by assigned registration time and day
April 26 – August 21 Tues - Sun	Open registration for degree-seeking students
July 19 Tuesday	First day to apply for Fall 2022 term graduation
August 18 Thursday	Non-degree seeking student registration begins
August 26 Friday	Last day to submit Non-degree Application for Fall 2022 term
September 11 Sunday	Last day to apply for graduation at the end of the Fall 2022 term
October 16 Sunday	Last day to register without incurring a $100 late registration fee
October 17 Monday	Classes begin Short Term Tuition Loan Applications available
October 24 Monday	Last day to add courses; last day to drop courses or withdraw from the University without incurring financial liability for tuition and fees Last day to change grading option
October 25 Tuesday	Fall “B” tuition payment due Last day to submit an appeal for the repeat surcharge fee Last day for students to apply for a Short Term Loan
October 26 Wednesday	$100 late payment fee assessed for outstanding balances
October 28 Friday	Cancellation of enrollment for unpaid tuition and fee balances not covered by payment plan, scholarships or other awards Last day to withdraw from the University with a 25% refund of tuition
October 31 – 4 Mon - Fri	Reinstatement after cancellation for non-payment
November 11 Friday	Veterans Day (University closed)
November 14 Monday	Last day to drop a course with a DR grade Last day to withdraw from the University with a WI grade Fall “B” Return of Title IV deadline for financial aid recipients
November 24 Thursday	Thanksgiving Day (University closed)
November 25 – 26 Fri - Sat	Thanksgiving Break (University closed)
December 3 Saturday	Classes end

December 14 Wednesday	Deadline (by 11:59 p.m.) for faculty to submit grades
December 15 Thursday	Fall "B" grades available for students

SESSION D

December 13 – January 5, 2023

October 24 Monday	Registration for degree-seeking students begins
December 11 Sunday	Last day to register without incurring a $100 late registration fee
December 12 Monday	Classes begin
December 15 Thursday	Last day to add courses; last day to drop courses without incurring financial liability for tuition and fees
December 16 Friday	Fall "D" tuition payment due Last day to submit an appeal for the repeat surcharge fee
December 19 Monday	$100 late payment fee assessed
December 23 Friday	Winter Break 1 (University closed)
December 26 Monday	Christmas Day Observed (University closed) Fall "D" Return of Title IV deadline for financial aid recipients
December 27 Tuesday	Last day to drop a course with a DR grade
December 30 Friday	Winter Break 2 (University closed)
January 2 Monday	New Years Day Observed (University closed)
January 4 Wednesday	Classes end
January 5 Thursday	Deadline (by 11:59 p.m.) for faculty to submit grades
January 6 Friday	Fall "D" grades available for students

SPRING 2023

January 9 – April 29, 2023

GENERAL DATES AND DEADLINES

October 17 Monday	Class schedule available to all returning undergraduate and graduate students for Spring 2023 term
Nov 1 – Dec 5 Tues - Mon	Official registration for degree-seeking students by assigned registration time and day
November 1 Tuesday	First day to apply for Spring 2023 term graduation
January 5 Thursday	Non-degree seeking student registration begins
January 13 Friday	Last day to submit Non-degree Application for Spring 2023 term
January 29 Sunday	Last day to apply for graduation at the end of Spring 2023 term
TBA	Commencement Exercises – Please refer to https://commencement.fiu.edu/

MAIN SESSION

January 10 – April 30, 2023

Final Week of the Term: April 25 – April 30, 2023

Dec 6 – Jan 8 Tues - Sun	Open registration for degree-seeking students
January 8 Sunday	Last day to register without incurring a $100 late registration fee
January 9 Monday	Classes begin Short Term Tuition Loan Applications available
January 16 Monday	Martin Luther King Day (University closed)
January 17 Tuesday	Last day to add courses; last day to drop courses or withdraw from the University without incurring financial liability for tuition and fees Last day to change grading option
January 18 Wednesday	Spring "C" tuition payment due Last day to submit an appeal for the repeat surcharge fee Last day for students to apply for a Short Term Loan
January 19 Thursday	$100 late payment fee assessed for outstanding balances
January 20 Friday	Cancellation of enrollment for unpaid tuition and fee balances not covered by payment plan, scholarships or other awards
January 23 – 27 Mon - Fri	Reinstatement after cancellation for non-payment

January 30 Monday	Last day to submit petition for removal of Summer 2022 courses
February 3 Friday	Last day to withdraw from the University with a 25% refund of tuition
Feb 27 – Mar 4 Mon - Sat	Spring Break (University open, no classes)
March 19 Sunday	Spring "C" Return of Title IV deadline for financial aid recipients
March 20 Monday	Last day to drop a course with a DR grade Last day to withdraw from the University with a WI grade
April 22 Saturday	Classes end
April 24 – 29 Mon - Sat	Final week of the term - modified class schedule: final exams and other course assessment activities are scheduled during this week
April 29 Saturday	End of term
May 3 Wednesday	Deadline (by 11:59 p.m.) for faculty to submit grades
May 4 Thursday	Spring "C" grades available for students

SESSION A

January 10 – February 26, 2023

October 17 Monday	Class schedule available to all returning undergraduate and graduate students for Spring 2023 term
Nov 1 – Dec 5 Tues - Mon	Official registration for degree-seeking students by assigned registration time and day
November 1 Tuesday	First day to apply for Spring 2023 term graduation
Dec 6 – Jan 8 Tues - Sun	Open registration for degree-seeking students
January 5 Thursday	Non-degree seeking student registration begins
January 8 Sunday	Last day to register without incurring a $100 late registration fee
January 9 Monday	Classes begin Short Term Tuition Loan Applications available
January 13 Friday	Last day to submit Non-degree Application for Spring 2023 term
January 16 Monday	Martin Luther King Day (University closed)
January 17 Tuesday	Last day to add courses; last day to drop courses or withdraw from the University without incurring financial liability for tuition and fees Last day to change grading option
January 18 Wednesday	Spring "A" tuition payment due Last day to submit an appeal for the repeat surcharge fee Last day for students to apply for a Short Term Loan
January 19 Thursday	$100 late payment fee assessed for outstanding balances
January 20 Friday	Cancellation of enrollment for unpaid tuition and fee balances not covered by payment plan, scholarships or other awards Last day to withdraw from the University with a 25% refund of tuition
January 23 – 27 Mon – Fri	Reinstatement after cancellation for non-payment
January 29 Sunday	Last day to apply for graduation at the end of Spring 2023 term
February 6 Monday	Last day to drop a course with a DR grade Last day to withdraw from the University with a WI grade Spring "A" Return of Title IV deadline for financial aid recipients
February 25 Saturday	Classes end
March 1 Wednesday	Deadline (by 11:59 p.m.) for faculty to submit grades
March 2 Thursday	Spring "A" grades available for students

SESSION B

March 6 – April 22, 2023

October 17 Monday	Class schedule available to all returning undergraduate and graduate students for Spring 2023 term
Nov 1 – Dec 5 Tues - Mon	Official registration for degree-seeking students by assigned registration time and day
November 1 Tuesday	First day to apply for Spring 2023 term graduation
Dec 6 – Mar 5 Tues - Sun	Open registration for degree-seeking students
January 5 Thursday	Non-degree seeking student registration begins
January 13 Friday	Last day to submit Non-degree Application for Spring 2023 term
January 29 Sunday	Last day to apply for graduation at the end of Spring 2023 term
March 5 Sunday	Last day to register without incurring a $100 late registration fee
March 6 Monday	Classes begin

	Short Term Tuition Loan Applications available
March 13 Monday	Last day to add courses; last day to drop courses or withdraw from the University without incurring financial liability for tuition and fees
	Last day to change grading option
March 14 Tuesday	Spring “B” tuition payment due
	Last day to submit an appeal for the repeat surcharge fee
	Last day for students to apply for a Short Term Loan
March 15 Wednesday	$100 late payment fee assessed for outstanding balances
March 17 Friday	Cancellation of enrollment for unpaid tuition and fee balances not covered by payment plan, scholarships or other awards
	Last day to withdraw from the University with a 25% refund of tuition
March 20 – 24 Mon - Fri	Reinstatement after cancellation for non-payment
April 3 Monday	Last day to drop a course with a DR grade
	Last day to withdraw from the University with a WI grade
	Spring “B” Return of Title IV deadline for financial aid recipients
April 22 Saturday	Classes end
May 3 Wednesday	Deadline (by 11:59 p.m.) for faculty to submit grades
May 4 Thursday	Spring “B” grades available for students

SUMMER 2023

May 8 – July 28, 2023

GENERAL DATES AND DEADLINES

March 6 Monday	Class schedule available to all returning undergraduate and graduate students for Summer & Fall 2023 terms
March 21 Tuesday	First day to apply for Summer 2023 term graduation
Mar 21 – Apr 24 Tues - Mon	Official registration for degree-seeking students by assigned registration time and day
May 4 Thursday	Non-degree seeking student registration begins
May 28 Sunday	Last day to apply for graduation at the end of Summer 2023 term
TBA	Commencement exercises - Please refer to https://commencement.fiu.edu/

SESSION C

May 9 – July 29, 2023

April 25 – May 7 Tues - Sun	Open registration for degree-seeking students
May 4 Thursday	Non-degree seeking student registration begins
May 7 Sunday	Last day to register without incurring a $100 late registration fee
May 8 Monday	Classes begin
	Short Term Tuition Loan Applications available
May 12 Friday	Last day to submit Non-degree Application for Summer 2023 term
May 15 Monday	Last day to add courses; last day to drop courses or withdraw from the University without incurring financial liability for tuition and fees
	Last day to change grading option
May 16 Tuesday	Summer “C” tuition payment due
	Last day to submit an appeal for the repeat surcharge fee
	Last day for students to apply for a Short Term Loan
May 17 Wednesday	$100 late payment fee assessed for outstanding balances
May 19 Friday	Cancellation of enrollment for unpaid tuition and fee balances not covered by payment plan, scholarships or other awards
May 22 – 26 Mon - Fri	Reinstatement after cancellation for non-payment
May 29 Monday	Memorial Day (University closed)
June 2 Friday	Last day to withdraw from the University with a 25% refund of tuition
June 12 Monday	Last day to submit petition for removal of Fall 2022 courses
June 26 Monday	Last day to drop a course with a DR grade
	Last day to withdraw from the University with a WI grade
	Summer “C” Return of Title IV deadline for financial aid recipients
July 4 Tuesday	Independence Day (University closed)
July 28 Friday	Classes end
	End of term

August 2 Wednesday	Deadline (by 11:59 p.m.) for faculty to submit grades
August 3 Thursday	Summer “C” grades available for students

SESSION A

May 8 – June 16, 2023

March 6 Monday	Class schedule available to all returning undergraduate and graduate students for Summer & Fall 2023 terms
March 21 Tuesday	First day to apply for Summer 2023 term graduation
Mar 21 – Apr 24 Tues - Mon	Official registration for degree-seeking students by assigned registration time and day
Apr 25 – May 7 Tues - Sun	Open registration for degree-seeking students
May 4 Thursday	Non-degree seeking student registration begins
May 7 Sunday	Last day to register without incurring a $100 late registration fee
May 8 Monday	Classes begin Short Term Tuition Loan Applications available
May 12 Friday	Last day to submit Non-degree Application for Summer 2023 term
May 15 Monday	Last day to add courses; last day to drop courses or withdraw from the University without incurring financial liability for tuition and fees Last day to change grading option
May 16 Tuesday	Summer “A” tuition payment due Last day to submit an appeal for the repeat surcharge fee Last day for students to apply for a Short Term Loan
May 17 Wednesday	$100 late payment fee assessed for outstanding balances
May 19 Friday	Cancellation of enrollment for unpaid tuition and fee balances not covered by payment plan, scholarships or other awards Last day to withdraw from the University with a 25% refund of tuition
May 22 – 26 Mon - Fri	Reinstatement after cancellation for non-payment
May 28 Sunday	Last day to apply for graduation at the end of Summer 2023 term
May 29 Monday	Memorial Day (University closed)
June 1 Thursday	Summer “A” Return of Title IV deadline for financial aid recipients
June 5 Monday	Last day to drop a course with a DR grade Last day to withdraw from the University with a WI grade
June 16 Friday	Classes end
June 21 Wednesday	Deadline (by 11:59 p.m.) for faculty to submit grades
June 22 Thursday	Summer “A” grades available for students

SESSION B

June 19 – July 28, 2023

March 6 Monday	Class schedule available to all returning undergraduate and graduate students for Summer & Fall 2023 terms
March 21 Tuesday	First day to apply for Summer 2023 term graduation
Mar 21 – Apr 24 Tues - Mon	Official registration for degree-seeking students by assigned registration time and day
Apr 25 – Jun 18 Tues - Sun	Open registration for degree-seeking students
May 4 Thursday	Non-degree seeking student registration begins
May 28 Sunday	Last day to apply for graduation at the end of Summer 2023 term
June 18 Sunday	Last day to register without incurring a $100 late registration fee
June 19 Monday	Classes begin Short Term Tuition Loan Applications available
June 23 Friday	Last day to submit Non-degree Application for Summer 2023 term
June 26 Monday	Last day to add courses; last day to drop courses or withdraw from the University without incurring financial liability for tuition and fees Last day to change grading option
June 27 Tuesday	Summer “B” tuition payment due Last day to submit an appeal for the repeat surcharge fee Last day for students to apply for a Short Term Loan
June 28 Wednesday	$100 late payment fee assessed for outstanding balances
June 30 Friday	Cancellation of enrollment for unpaid tuition and fee balances not covered by payment plan, scholarships or other awards

	Last day to withdraw from the University with a 25% refund of tuition
July 3 – 7 Mon - Fri	Reinstatement after cancellation for non-payment
July 4 Tuesday	Independence Day (University closed)
July 13 Thursday	Summer “B” Return of Title IV deadline for financial aid recipients
July 17 Monday	Last day to drop a course with a DR grade
	Last day to withdraw from the University with a WI grade
July 28 Friday	Classes end
August 2 Wednesday	Deadline (by 11:59 p.m.) for faculty to submit grades
August 3 Thursday	Summer “B” grades available for students

Calendar dates are subject to change. Please contact appropriate offices for verification and updates.

This calendar includes official University holidays. Faculty are encouraged to make accommodations for students who wish to observe religious holidays. Students should make their requests known to the instructor at the beginning of the term. For a listing of religious holidays, you may visit http://www.interfaith-calendar.org.

UNIVERSITY INFORMATION

MISSION

Florida International University is an urban, multi-campus, public research university serving its students and the diverse population of South Florida. We are committed to high-quality teaching, state-of-the-art research and creative activity, and collaborative engagement with our local and global communities.

VISION

Florida International University will achieve exceptional student-centered learning and upward economic mobility, produce meaningful research and creative activities, and lead transformative innovations locally and globally, resulting in recognition as a Top-50 public university.

VALUES

Florida International University (FIU) is committed to the following core values:

- Truth—in the pursuit, generation, dissemination, and application of knowledge
- Freedom—of thought and expression
- Respect—for diversity and the dignity of the individual
- Responsibility—as stewards of the environment and as citizens of the world
- Excellence—in intellectual, personal, and operational endeavors

THE UNIVERSITY

FIU, a member institution of the State University System of Florida, was established by the Florida Legislature in 1965. Classes began in September 1972, with 5,667 students enrolled in upper division and graduate programs – the largest opening-day enrollment in U.S. collegiate history. In 1984, FIU received authority to begin offering degree programs at the doctoral level. The Carnegie Foundation for the Advancement of Teaching designates FIU as an R1 Doctoral University: Highest Research Activity.

The university is a member of Phi Beta Kappa, the nation's oldest and most distinguished academic honors society. FIU offers more than 200 baccalaureate, master's, specialist, and doctoral degree programs in the following colleges and schools: College of Arts, Sciences, and Education (School of Education and Human Development; School of Environment, Arts, and Society; and School of Integrated Science and Humanity); College of Business (School of Accounting, Chapman Graduate School, and Landon Undergraduate School of Business); College of Communication, Architecture and the Arts (School of Communication and Journalism, and School of Music); College of Engineering and Computing (School of Computing and Information Sciences and Moss School of Construction, Infrastructure, and Sustainability); College of Law; Herbert Wertheim College of Medicine; Honors College; Nicole Wertheim College of Nursing and Health Sciences; Robert Stempel College of Public Health and Social Work (School of Social Work); Steven J. Green School of International and Public Affairs; and Chaplin School of Hospitality and Tourism Management.

FIU has more than 56,000 students and more than 1,700 full-time faculty members; it award more than 9,000 degrees annually, making it the largest university in South Florida and placing it among the nation's ten largest colleges and universities. The university has two campuses – Modesto A. Maidique Campus in western Miami-Dade County and the Biscayne Bay Campus, a branch campus, in northeast Miami-Dade County. A shuttle bus runs continuously between the two campuses throughout the day. FIU offers programs at the FIU at I-75 academic center in adjacent Broward County and the FIU Downtown on Brickell academic center in Miami. Additionally, numerous programs are offered at off-campus locations and online.

MODESTO A. MAIDIQUE CAMPUS

The Modesto A. Maidique Campus is a 344-acre site on the western edge of Miami, the center of a metropolitan area of approximately 450 million people. Apartment-style residence halls, a nationally certified environmental preserve, and athletic facilities all contribute to a pleasant collegiate atmosphere on Modesto A. Maidique Campus, which is also FIU's largest campus. FIU's Modesto A. Maidique Campus has impressive campus architecture, lush tropical landscaping, a Sculpture Park, and the eight-story Green Library. There is also a state-of-the-art Wertheim Performing Arts Center, a recreation center, a health and wellness center, an expanded university center, a 4,500-seat FIU Ocean Bank Convocation Center, and a football stadium. Modesto A. Maidique Campus also has laboratories, auditoriums, music and art studios, an art museum, an international conference theater, and an experimental theater. There is a wide variety of clubs and student organizations on campus to meet the professional, service, athletic, social, and cultural needs of the FIU community.

FIU's libraries at Modesto A. Maidique Campus and Biscayne Bay Campus have more than 2 million volumes and 135,000 serials including journals (5,000 online); electronic databases; numerous resources in other formats; substantial holdings of federal, state, local, and international documents; maps; institutional archives; and curriculum materials. Law and medical libraries are located on the Modesto A. Maidique Campus.

Housing and Residential Life provides a wide variety of living accommodations on campus. Residence halls at Modesto A. Maidique Campus include Panther Hall, Everglades Hall, University Park Towers, University Apartments, Parkview Hall, and Lakeview Housing. Housing staff assist students in selecting accommodations to meet their particular needs. Single-gender and gender-inclusive accommodations are available. There are no family or married housing offerings.

BISCAYNE BAY CAMPUS

FIU's Biscayne Bay Campus is located on 197 acres on the waterfront of Biscayne Bay and has an enrollment of approximately 5000 students. The campus is headquarters for academic programs in Hospitality and Tourism Management, Communication and Journalism,

Marine Science, and Creative Writing. Coursework in Arts, Sciences, and Education; Business Administration; Communication, Architecture and the Arts; Computer Science; Nursing; and Criminal Justice is also offered (for specific degree programs please refer to Academic Programs in this catalog).

The campus houses the Glenn Hubert Library, Osher Lifelong Learning Institute, and the state-of-the-art Roz and Cal Kovens Conference Center.

A residential complex living accommodation is available on the Biscayne Bay Campus. The Wolfe University Center is the focal point of all student activities, including clubs and entertainment, student life, and dining facilities.

FIU at I-75

FIU has brought higher education closer to home for thousands of South Broward residents through its academic center, FIU at I-75. Located at 1930 SW 145th Avenue in Miramar, classes are held in an 89,000 square-foot LEED-certified facility shared with Broward College. The center includes classrooms, computer labs, study rooms, administrative offices, and student collaborative areas.

Select courses and programs at the bachelor's and master's levels are offered by the College of Arts, Sciences, and Education; College of Business; Steven J. Green School of International and Public Affairs; and the College of Engineering and Computing. Non-Credit programs are also offered.

FIU at I-75 is also home to the Jorge M. Pérez Metropolitan Center, an applied research institute providing policy solutions to public, private, and non-profit organizations in South Florida.

Students attending FIU at I-75 benefit from access to the resources of both the FIU libraries (located on the Modesto A. Maidique and Biscayne Bay campuses) and the Broward County Public libraries. The Student Government Association sponsors social and cultural events that provide students with opportunities to enhance their experiences outside of the classroom. For more information about FIU at I-75 and its offerings, please visit **broward.fiu.edu**.

FIU DOWNTOWN ON BRICKELL

FIU Downtown on Brickell consists of 45,000 square feet at 1101 Brickell Avenue. FIU Downtown on Brickell includes multi-purpose classrooms, administrative and faculty offices. With its prime location, FIU Downtown on Brickell provides working professionals a convenient place to further their education. A range of master level business programs are offered at the venue.

For more information about FIU Downtown on Brickell programs, please visit **dwntwn.fiu.edu**.

MIAMI BEACH URBAN STUDIOS

FIU Miami Beach Urban Studios | School of Architecture (MBUS)—a unique, 5,000-square-foot facility located in the 420 Lincoln Road Building—hosts innovative classes in the School of Architecture, research, laboratories, exhibitions, events, and other opportunities for the FIU School of Architecture within the College of Communication, Architecture, the Arts. As part of its mission, MBUS houses students, faculty, and events affiliated with the Department of Architecture, Department of Interior Architecture, and the Department of Landscape Architecture and Environmental and Urban Design. MBUS also houses Tikkun Olam Makers (TOM): FIU Community, a partner in the TOM Global consortium of makers that create affordable solutions to challenges experienced by people living with disabilities, the elderly, and the poor. It contains the 3,500sf SOA Innovation Lab, which has more than fifty 3D printers and is one of the largest 3D printing laboratories of its kind in Florida. The SOA Innovation Lab was featured in the HP/EDUCAUSE Building the Campus of the Future project. The lab also played a leadership role in producing more than 10,000 face shields for the FIU Face Shield Fabrication project (which involved students, faculty, and staff working in support of Baptist Health South Florida and other health- and business-related institutions in the community). In the broadest sense, MBUS provides a platform for new ideas and community engagement that seek collaborative solutions to local and global needs. For more information about MBUS, please visit **carta.fiu.edu/mbus/**.

ACCREDITATIONS

Florida International University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate, baccalaureate, masters, specialist and doctoral degrees. Questions about the accreditation of Florida International University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org). The university maintains the standards specified by the SACSCOC "Principles of Accreditation" and notifies the SACSCOC of any substantive changes. The SACSCOC reaffirmed FIU's accreditation on December 2, 2021 (next reaffirmation is 2031). General inquiries about FIU, such as admission requirements, financial aid, educational programs, etc., should be addressed directly to the appropriate FIU department and not the SACSCOC office.

Professional degree programs at FIU are accredited or approved by the appropriate professional associations or are pursuing full accreditation or approval. To obtain information about the specialized accreditation agencies, and their criteria and review process, contact the chairperson/director of the respective degree program. The respective FIU colleges/schools and professional degree programs are listed below with the corresponding accrediting agencies.

College of Arts, Sciences & Education

Biological Sciences (BS) (Education Track) - Council for the Accreditation of Educator Preparation (CAEP)
Chemistry (BS) - American Chemical Society (ACS)
Chemistry (BA) (Chemical Education Major) - Council for the Accreditation of Educator Preparation (CAEP)
Counselor Education (MS) (Clinical Mental Health Counseling track; Rehabilitation Counseling tracks; School Counseling Track) - Council for Accreditation of Counseling and Related Educational Programs (CACREP)
Early Childhood Education (BS) (ESOL and Reading Endorsement track) - Council for the Accreditation of Educator Preparation (CAEP)
Earth Science (BA) (Earth Science Education major) - Council for the Accreditation of Educator Preparation (CAEP)
Educational Leadership (MS) - Council for the Accreditation of Educator Preparation (CAEP)
Elementary Education (BS) (ESOL and Reading Endorsement track) - Council for the Accreditation of Educator Preparation (CAEP)
English Education (BA) (English Education with ESOL Endorsement) - Council for the Accreditation of Educator Preparation (CAEP)
Exceptional Student Education (BS) (ESOL and Reading Endorsement track) - Council for the Accreditation of Educator Preparation (CAEP)
Forensic Science (Undergraduate Certificate, MS) - Forensic Science Education Programs Accreditation Commission (FEPAC)
Mathematics (BA) (Mathematics, Education major) - Council for the Accreditation of Educator Preparation (CAEP)
Psychology (PhD, Doctoral Internship) - *American Psychological Association Commission on Accreditation (APA)
Physics (BA, BS) (Physics Education track) - Council for the Accreditation of Educator Preparation (CAEP)
Physical Education (BS) (K-12 track) - Council for the Accreditation of Educator Preparation (CAEP)
Professional Training Option (Minor in Education) - Council for the Accreditation of Educator Preparation (CAEP)
Reading Education (MS) - Council for the Accreditation of Educator Preparation (CAEP)
School Psychology (EdS) - National Association of School Psychologists (NASP); Council for the Accreditation of Educator Preparation (CAEP)

College of Communication, Architecture + The Arts

Architecture (MArch) - National Architectural Accrediting Board (NAAB)
Art Education (BS, MAT) (Grades K-12 track) - Council for the Accreditation of Educator Preparation (CAEP)
Art (BA, BFA) - *National Association of Schools of Art and Design Commission on Accreditation (NASAD)
Art Education (BS) - Council for the Accreditation of Educator Preparation (CAEP); *National Association of Schools of Art and Design; Commission on Accreditation (NASAD)
Art Education (MAT) - Council for the Accreditation of Educator Preparation (CAEP)
Art Education (MS) - *National Association of Schools of Art and Design Commission on Accreditation (NASAD)
Art History (BA) - *National Association of Schools of Art and Design Commission on Accreditation (NASAD)
Communication (BS) - Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)
Digital Arts (BFA) – *National Association of Schools Art and Design (NASAD)
Interior Architecture (MIA) - Council for Interior Design Accreditation (CIDA); *National Association of Schools of Art and Design (NASAD)
Landscape Architecture (MLA)- Landscape Architectural Accreditation Board (LAAB)
Mass Communication (MS) - Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)
Museum Studies (Graduate Certificate) - *National Association of Schools of Art and Design (NASAD)
Music (BA, BM, MM) - *National Association of Schools of Music (NASM)
Music Education (BM, MS) - Council for the Accreditation of Educator Preparation (CAEP); *National Association of Schools of Music (NASM)
Theatre (BA, BFA) - *National Association of Schools of Theatre, Commission on Accreditation (NAST)
Visual Arts (MFA) - *National Association of Schools of Art and Design (NASAD)

College of Business

Accounting (BAcc, MAcc) - Association to Advance Collegiate Schools of Business (AACSB)
Business Administration (BBA, MBA, DBA, PhD) - Association to Advance Collegiate Schools of Business (AACSB)

Business Analytics (BBA) - Association to Advance Collegiate Schools of Business (AACSB)
Finance (BBA, MS) - Association to Advance Collegiate Schools of Business (AACSB)
Health Informatics and Analytics (MS) - Association to Advance Collegiate Schools of Business (AACSB); Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)
Healthcare Management track (MBA) - Commission on Accreditation of Healthcare Management Education (CAHME)
Human Resources Management (BBA, MS) - Association to Advance Collegiate Schools of Business (AACSB)
Management Information Systems (BBA) - Association to Advance Collegiate Schools of Business (AACSB)
International Business (BBA, MIB) - Association to Advance Collegiate Schools of Business (AACSB)
International Real Estate (MSIRE) - Association to Advance Collegiate Schools of Business (AACSB)
Logistics and Supply Chain Management (BBA, MS) - Association to Advance Collegiate Schools of Business (AACSB)
Marketing (BBA, MS) - Association to Advance Collegiate Schools of Business (AACSB)
Real Estate (BBA) - Association to Advance Collegiate Schools of Business (AACSB)

College of Engineering & Computing

Biomedical Engineering (BS) - Accreditation Board for Engineering and Technology (ABET)
Civil Engineering (BS) - Accreditation Board for Engineering and Technology (ABET)
Computer Engineering (BS) - Accreditation Board for Engineering and Technology (ABET)
Computer Science (BS) - Accreditation Board for Engineering and Technology (ABET)
Construction Management (BS) - American Council for Construction Education (ACCE)
Engineering Management (MSEM) (Orthotics and Prosthetics track) - Commission on Accreditation of Allied Health Education Programs (CAAHEP)
Electrical Engineering (BS) - Accreditation Board for Engineering and Technology (ABET)
Environmental Engineering (BS) - Accreditation Board for Engineering and Technology (ABET)
Mechanical Engineering (BS) - Accreditation Board for Engineering and Technology (ABET)

College of Law

Law (JD) - *American Bar Association (ABA)

Herbert Wertheim College of Medicine

Medicine (MD) - *Liaison Committee on Medical Education (LCME)
Physician Assistant (MPAS)- Accreditation Review Commission on Education for the Physician Assistant (ARC-PA)

Nicole Wertheim College of Nursing and Health Sciences

Adult-Gerontology Primary Care Nurse Practitioner (MSN) - *Commission on Collegiate Nursing Education (CCNE)
Athletic Training (MS) - Commission on Accreditation of Athletic Training Education (CAATE)
Family Nurse Practitioner (MSN) - *Commission on Collegiate Nursing Education (CCNE)
Nurse Anesthesia (DNP) - *Council on Accreditation of Nurse Anesthesia Educational Programs (COA)
Nursing (BSN, MSN) - *Commission on Collegiate Nursing Education (CCNE)
Nursing Practice (DNP) - *Commission on Collegiate Nursing Education (CCNE)
Nursing Science (PhD) - *Commission on Collegiate Nursing Education (CCNE)
Occupational Therapy (MS) - *American Occupational Therapy Association Accreditation Council for Occupational Therapy Education (ACOTE)
Pediatric Primary Care Nurse Practitioner (MSN) - *Commission on Collegiate Nursing Education (CCNE)
Physical Therapy (DPT) - *American Physical Therapy Association; Commission on Accreditation in Physical Therapy Education (CAPTE)
Psychiatric/ Mental Health Nurse Practitioner (MSN) - *Commission on Collegiate Nursing Education (CCNE)
Speech Language Pathology (MS) - *American Speech-Language-Hearing Association; Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA-ASHA)

Robert Stempel College of Public Health and Social Work

Dietetics and Nutrition (BS, Dietetic Internship) - *Academy of Nutrition and Dietetics, Accreditation Council for Education in Nutrition and Dietetics (ACEND)
Public Health (MPH, PhD) - *Council on Education for Public Health (CEPH)
Social Work (BS, MSW) - Council on Social Work Education (CSWE)

Steven J. Green School of International and Public Affairs

Geography (BA) (Social Studies Education major) - Council for the Accreditation of Educator Preparation (CAEP)
History (BA) (Social Studies Education major) - Council for the Accreditation of Educator Preparation (CAEP)
Political Science (BA) (Social Studies Education track) - Council for the Accreditation of Educator Preparation (CAEP)
Public Administration (MPA) - Network of Schools of Public Policy, Affairs, and Administration Commission on Peer Review and Accreditation (NASPAA)

Chaplin School of Hospitality and Tourism Management

Hospitality Management (BS) - Accreditation Commission for Programs in Hospitality Administration (ACPHA)

(* Denotes accreditors recognized by the U.S. Department of Education)

ACADEMIC PROGRAMS

MODESTO A. MAIDIQUE CAMPUS PROGRAMS

COLLEGE OF ARTS, SCIENCES AND EDUCATION

https://case.fiu.edu/

MASTER OF ARTS IN:
- English
- Linguistics

MASTER OF SCIENCE IN:
- Adult Education and Human Resource Development
- Biology
- Chemistry
- Cognitive Neuroscience
- Counselor Education
- Curriculum and Instruction
- Early Childhood Education
- Educational Leadership
- Environmental Studies
- Forensic Science
- Foreign Language Education
- Geosciences
- Higher Education Administration
- International and Intercultural Education
- Kinesiology and Exercise Science
- Mathematical Sciences
- Physics
- Psychology
- Reading/Literacy Education (K-12)
- Recreation and Sport Management
- Research Design and Analysis
- Special Education
- Statistics
- Urban Education

PROFESSIONAL SCIENCE MASTERS:
- Environmental Policy and Management
- Forensic Science

EDUCATIONAL SPECIALIST IN:
- Educational Leadership
- School Psychology
- Teaching and Learning

DOCTOR OF EDUCATION IN:
- Adult Education and Human Resource Development
- Educational Leadership and Policy Studies

DOCTOR OF PHILOSOPHY IN:
- Applied Mathematical Sciences
- Biology
- Biochemistry
- Chemistry
- Cognitive Neuroscience
- Earth Systems Science
- Physics
- Psychology
- Higher Education
- Teaching and Learning

COLLEGE OF BUSINESS

https://business.fiu.edu/

MASTER OF ACCOUNTING
MASTER OF BUSINESS ADMINISTRATION
MASTER OF BUSINESS ADMINSTRATION IN BUSINESS ANALYTICS
MASTER OF INTERNATIONAL BUSINESS
MASTER OF SCIENCE IN:
- Finance
- Health Informatics and Analytics
- Human Resource Management
- Information Systems
- International Real Estate
- Logistics and Supply Chain Management
- Marketing

DOCTORATE IN BUSINESS ADMINISTRATION
DOCTOR OF PHILOSOPHY IN BUSINESS ADMINISTRATION

COLLEGE OF COMMUNICATION, ARCHITECTURE + THE ARTS

https://carta.fiu.edu/

MASTER OF ARCHITECTURE
MASTER OF ARTS IN:
- Design
- Interior Architecture
- Urban Design

MASTER OF ARTS IN TEACHING:
- Art Education (K-12)

MASTER OF FINE ARTS IN VISUAL ARTS
MASTER OF INTERIOR ARCHITECTURE
MASTER OF LANDSCAPE ARCHITECTURE
MASTER OF MUSIC
MASTER OF SCIENCE IN:
- Art Education
- Music Education

DOCTOR OF DESIGN

COLLEGE OF ENGINEERING AND COMPUTING

https://cec.fiu.edu/

MASTER OF SCIENCE IN:
- Biomedical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Construction Management
- Cybersecurity
- Data Science and Artificial Intelligence
- Electrical Engineering
- Engineering Management
- Environmental Engineering
- Information Technology
- Internet of Things
- Logistics Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Telecommunications and Networking

DOCTOR OF PHILOSOPHY IN:
- Biomedical Engineering

Civil Engineering
Computer Science
Electrical and Computer Engineering
Engineering and Computer Education
Materials Science and Engineering
Mechanical Engineering

COLLEGE OF LAW

https://law.fiu.edu/

JURIS DOCTOR
JURIS MASTER OF LAW
MASTER OF LAW (LL.M.)
MASTER OF SCIENCE IN:
Law of Technology

HERBERT WERTHEIM COLLEGE OF MEDICINE

https://medicine.fiu.edu/
MASTER IN PHYSICIAN ASSISTANT STUDIES
DOCTOR OF MEDICINE
DOCTOR OF PHILOSOPHY IN:
Biomedical Sciences

NICOLE WERTHEIM COLLEGE OF NURSING AND HEALTH SCIENCES

https://cnhs.fiu.edu/
MASTER OF HEALTH SERVICES ADMINISTRATION
MASTER OF SCIENCE IN:
Athletic Training
Nursing
Occupational Therapy
Speech-Language Pathology
DOCTOR OF ATHLETIC TRAINING
DOCTOR OF NURSING PRACTICE
DOCTOR OF PHILOSOPHY IN NURSING
DOCTOR OF PHYSICAL THERAPY

ROBERT STEMPEL COLLEGE OF PUBLIC HEALTH AND SOCIAL WORK

https://stempel.fiu.edu/
MASTER OF ARTS IN:
Disaster Management
MASTER OF PUBLIC HEALTH
MASTER OF SCIENCE IN:
Dietetics and Nutrition
MASTER OF SOCIAL WORK
DOCTOR OF PHILOSOPHY IN:
Dietetics and Nutrition
Public Health
Social Welfare

STEVEN J. GREEN SCHOOL OF INTERNATIONAL AND PUBLIC AFFAIRS

https://sipa.fiu.edu/
MASTER OF ARTS IN:
African and African Diaspora Studies
Asian Studies
Economics
Global Affairs
Global and Sociocultural Studies
History
International Studies
Latin American and Caribbean Studies
Political Science
Religious Studies
Spanish
MASTER OF PUBLIC ADMINISTRATION
MASTER OF SCIENCE IN:
Criminal Justice
DOCTOR OF PHILOSOPHY IN:
Economics
Global and Sociocultural Studies
History
International Crime and Justice
International Relations
Political Science
Public Affairs
Spanish

BISCAYNE BAY CAMPUS PROGRAMS

https://www.fiu.edu/locations/bbc/index.html

COLLEGE OF ARTS, SCIENCES AND EDUCATION

https://case.fiu.edu/seas/
MASTER OF FINE ARTS IN CREATIVE WRITING
MASTER OF ARTS IN:
English
MASTER OF SCIENCE:
Kinesiology and Exercise Science

COLLEGE OF COMMUNICATION, ARCHITECTURE + THE ARTS SCHOOL OF COMMUNICATION AND JOURNALISM

https://carta.fiu.edu/scj/
MASTER OF SCIENCE IN MASS COMMUNICATION

CHAPLIN SCHOOL OF HOSPITALITY AND TOURISM MANAGEMENT

https://hospitality.fiu.edu/
MASTER OF SCIENCE IN:
Hospitality Management

FIU at I-75 PROGRAMS

https://broward.fiu.edu/

COLLEGE OF ARTS, SCIENCES AND EDUCATION

https://case.fiu.edu/
PROFESSIONAL SCIENCE MASTER IN ENVIRONMENTAL POLICY AND MANAGEMENT
MASTER OF SCIENCE IN:
Adult Education and Human Resource Development

COLLEGE OF BUSINESS

http://business.fiu.edu/
MASTER OF BUSINESS ADMINISTRATION:

Healthcare MBA track (HMBA)
Professional MBA track (PMBA)

MASTER IN HUMAN RESOURCE MANAGEMENT
MASTER OF SCIENCE IN:
Finance

COLLEGE OF ENGINEERING AND COMPUTING

https://cec.fiu.edu/
PROFESSIONAL MASTER OF SCIENCE IN:
Engineering Management

STEVEN J. GREEN SCHOOL OF INTERNATIONAL AND PUBLIC AFFAIRS

https://sipa.fiu.edu/
MASTER OF PUBLIC ADMINISTRATION

FIU DOWNTOWN ON BRICKELL PROGRAMS

COLLEGE OF BUSINESS

https://business.fiu.edu/

DOCTOR OF BUSINESS ADMINISTRATION

MASTER OF BUSINESS ADMINISTRATION:
Healthcare MBA track (HMBA)
Professional MBA Downtown track (PMBA)
Professional MBA for Executives track (PMBA)
Professional MBA Flex track (PMBA)

MASTER OF ACCOUNTING (MACC)
MASTER OF SCIENCE IN:
Finance
International Real Estate
Marketing

GRADUATE CERTIFICATE PROGRAMS

Certificates are offered to students with bachelor's degrees who wish to obtain advanced education in a particular area of concentration, but do not necessarily want to commit to a master's degree. Successful completion of a Graduate Certificate is entered on the student's transcript. Some or all of the courses taken in a Graduate Certificate can often be applied to a master's degree. In addition to the Graduate Certificates offered through the University Graduate School, non-credit Professional Certificates are offered through University College.

COLLEGE OF ARTS, SCIENCES AND EDUCATION

https://case.fiu.edu/
GRADUATE CERTIFICATE IN:
Academic Advising
Applied Behavior Analysis
Applied Social and Cultural Psychology
Biodiversity Conservation and Management
Cognitive Neuroscience
Educational Leadership
Environmental Studies
Geographic Information Systems
Grades K-5 Mathematics Teaching
Grades 6-12 Mathematics Teaching
Marriage and Family Therapy
Quantitative Environmental Finance
TESOL (Teaching English to Speakers of Other Language)
Water, Environment and Development Studies
Women's and Gender Studies
PROFESSIONAL GRADUATE CERTIFICATE IN:
Spanish/English Bilingual Education

COLLEGE OF BUSINESS

https://business.fiu.edu/
GRADUATE CERTIFICATE IN:
Advanced Business Analytics
Business Analytics
Cybersecurity Management
Financial Analytics
Graduate Professional Accountability
Healthcare Management
Health Informatics & Analytics

COLLEGE OF COMMUNICATION, ARCHITECTURE + THE ARTS

https://carta.fiu.edu/
GRADUATE CERTIFICATE IN:
Cruise Ship and Super Yacht Design
History, Theory and Criticism of Architecture
Museum Studies
Portrait and Figurative Art
Science Communication
Spanish-Language Journalism

COLLEGE OF ENGINEERING AND COMPUTING

https://cec.fiu.edu/
GRADUATE CERTIFICATE IN:
Construction Engineering and Management
Engineering Management
Enterprise Systems

COLLEGE OF LAW

https://law.fiu.edu/
GRADUATE CERTIFICATE IN:
Environmental and Natural Resources Law
Intellectual Property

HERBERT WERTHEIM COLLEGE OF MEDICINE

https://medicine.fiu.edu/
GRADUATE CERTIFICATE IN:
Core Clinical Clerkships
Molecular and Biomedical Sciences

NICOLE WERTHEIM COLLEGE OF NURSING AND HEALTH SCIENCES

https://cnhs.fiu.edu/

GRADUATE CERTIFICATE IN:

- Communication Sciences and Disorders
- Culturally Competent Nursing Education
- Family Nurse Practitioner
- Nurse Executive
- Pediatric Nutrition
- Post Master's Certificate in Nurse Education
- Post-Master's Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner

ROBERT STEMPEL COLLEGE OF PUBLIC HEALTH AND SOCIAL WORK

https://stempel.fiu.edu/

GRADUATE CERTIFICATE IN:

- Addictions
- Child Welfare
- Environmental Health Sciences
- Epidemiology
- Health Economics
- Health Promotion
- Management in Social Work
- Maternal and Child Health
- Pediatric Nutrition
- Post-MSW Certificate in Clinical Practice
- Public Health Foundations
- Social Work Practice with the Elderly
- Urban Policy Innovations

STEVEN J. GREEN SCHOOL OF INTERNATIONAL AND PUBLIC AFFAIRS

https://sipa.fiu.edu/

GRADUATE CERTIFICATE IN:

- African and African Diaspora Studies
- Afro-Latin American Studies
- Asian Globalization
- Asian Studies
- Nonprofit and Community Development
- Conflict Resolution and Consensus Building
- European and Eurasian Studies
- Homeland Security and Emergency Management
- Human Resource Policy and Management
- Iberian Studies
- Inclusion, Diversity, Equity, Access and Leadership
- International and Comparative Public Administration
- Japanese Studies
- Latin American and Caribbean Studies
- Middle East and Central Asian Studies
- National Security Studies
- Public Finance, Procurement and Contract Management
- Public Management
- Religious Studies
- Sustainable Communities

UNIVERSITY GRADUATE SCHOOL

Andres Gil *Dean*

The University Graduate School has oversight of post baccalaureate programs in all colleges and schools with the exception of the programs in the College of Law and the Doctor of Medicine program in the College of Medicine. Working with the Graduate Faculty and the Graduate Council of the Faculty Senate, the University Graduate School develops and implements the policies and procedures that guide graduate education at the University.

Graduate Admissions is usually the first point of contact entering graduate students have with the University Graduate School. Students should verify dates and registration information with the OneStop Enrollment Services Office, Student Academic Success Center (SASC), Modesto A. Maidique Campus, (305) 348-7000. Students are admitted to the University Graduate School upon recommendation of the graduate program to which they have applied. The University Graduate School oversees the university-wide fellowship programs: Presidential Fellowships, UGS Inclusion Fellowships, Veteran's Fellowships, Doctoral Evidence Acquisition, and Dissertation Year Fellowships. The University Graduate School also works with the graduate programs to provide support to Graduate Assistants. The stipend for Graduate Assistants is provided by the graduate program, within guidelines set by the University Graduate School, and the accompanying tuition waivers are provided by the University Graduate School.

Students completing thesis master's degrees and all students in doctoral programs have more contact with the University Graduate School as they obtain University Graduate School approval for their thesis or dissertation committee, thesis or dissertation proposal, thesis or dissertation defense announcement, and final thesis or dissertation.

The University Graduate School works with the Graduate Senators and Graduate and Professional Student Committee to help enrich the total graduate student experience: academically, socially, and culturally. Through its Professional Development Program, the University Graduate School delivers professional and career-development training to graduate students. The University Graduate School serves as an ombudsman for graduate students.

All graduate students are encouraged to visit the University Graduate School MARC 430, (305) 348 2455, or log on to the web site, **http://gradschool.fiu.edu** to find answers to questions regarding any phase of their graduate education.

ERNEST R. GRAHAM UNIVERSITY CENTER

UNIVERSITY LIBRARIES

Uniquely positioned at the intersection of information, technology, and innovation, the University Libraries engage with local and global partners to foster student-centered learning and to support internationally recognized research. The libraries are wonderful gathering places to pursue scholarly research, to learn about and use information technology, to write, to study, and to draw on a rich collection of print and electronic resources. Here you will find just about everything you need to collaborate and create new knowledge for the 21st century: almost 2 million volumes, tens of thousands of movies and songs, maps, rare books, electronic books, microfilms, and approximately 600 online databases containing millions of articles from tens of thousands of online journals, newspapers, government reports, and more. You can access many of these resources right from home by accessing online books, streaming videos, journals, newspapers, historical documents, photographs, and other materials. In addition, as an FIU student you have privileges at most other libraries in south Florida and at the libraries of all other institutions in the State University System of Florida.

To help you with your research needs, our librarians will gladly assist you in person, by phone, by email, and by live chat and SMS/text; in collaboration with subject librarians, we will work with you one-on-one, showing you how to navigate resources, assist with search strategies, and provide research consultations for in-depth projects. Group instruction is provided for classes by request, and in consultation with faculty, and via open workshops on focused topics such as citation and bibliography management. The libraries offer a variety of technology options, including wireless internet access, mobile devices, laptop checkout, free high-quality document scanning, and color photocopying/printing. Drop by and have your computing questions answered at the Division of IT help desk or consult with skilled tutors at the Center for Excellence in Writing. The libraries also house world-renowned digital collections including the Digital Library of the Caribbean (dLOC) and the Everglades Digital Library; state-of-the-art Geographic Information Systems (GIS) labs; the Latin American and Caribbean Information Center; and Special Collections. Through the newly created Digital Scholar Studio, the libraries also offer active-learning spaces as well as digital scholarship services and training on topics such as web publishing, digital exhibit building, and other digital scholarship tools and technologies.

In keeping with FIU's core value – student-centered service – the libraries have study rooms, late and/or overnight hours, group- and quiet-study spaces, collaborative-learning areas, disability access, graduate-research carrels, and cafés. Many areas have been redesigned and renovated to provide state-of-the-art technology hubs, complete with ubiquitous wireless computing, small-group presentation rooms, open-area collaboration zones, HDTV media viewing and listening rooms, flexible modular furniture, and many other features designed to accommodate the way you collaborate, study, and use information.

Visit our locations: the Green Library on the Modesto A. Maidique Campus, the Hubert Library on the Biscayne Bay Campus, and online at **library.fiu.edu**.

UNIVERSITY MUSEUMS

THE PATRICIA & PHILLIP FROST ART MUSEUM

The Frost Art Museum's vision is to spark curiosity and dialogue through art. We bring great art to our South Florida community. We are a campus resource for our entire FIU community, and we serve as a premier cultural destination for residents and visitors to one of America's most vibrant cities. We complement our exhibitions with a wide range of educational programs tailored for our community.

Admission to the museum is free for everyone, and we welcome you to bring your family and friends for an afternoon visit followed by a cafecito from Vicky Café on our first floor. We offer free educational programs throughout the month, including drawing in the galleries, lectures, tours with the curator, and zine-making workshops. In addition, the museum presents more than 10 exhibitions every year. Our shows depict diverse cultures, histories, and perspectives.

The museum's permanent collection has grown to more than 6,000 objects, thanks to several notable donations of important works of art. From Pre-Columbian artifacts to twenty-first-century prints and photography, the extensive range of the collection allows the museum to provide in-depth research opportunities and exhibitions. The museum's permanent collection exhibition highlights our gems and rotates works throughout the year. In addition, much of our collection is available to search on our website.

Because the Frost Art Museum is part of one of the nation's largest research universities, education comprises a major component of the museum's mission. Each academic year, our curators and staff provide ongoing curriculum support to faculty across departments in FIU.

The Frost Art Museum continually reaffirms its commitment to promoting the excellence of its collections, exhibitions, and educational programs by striving to discover innovative ways to reach and serve an increasingly larger and more diverse constituency both nationally and internationally. Please visit the museum's website at **frost.fiu.edu** or call (305) 348-2890.

THE WOLFSONIAN–FIU

Located in the heart of Miami Beach's Art Deco District, The Wolfsonian–FIU is a museum and research center that uses objects to illustrate the persuasive power of art and design; to explore what it means to be modern; and to tell the story of social, political, and technological changes that have transformed our world. It encourages people to see the world in new ways, and to learn from the past as they shape the present and influence the future. The Wolfsonian achieves its mission through exhibitions, publications, educational programs, and individual scholarship.

The Wolfsonian became part of FIU in July 1997 when its founder, Mitchell "Micky" Wolfson Jr., donated his extraordinary collection, as well as the museum building, to the university. The core of The Wolfsonian's holdings consists of decorative arts, fine arts, propaganda, architectural materials, and industrial and graphic design from the period of 1850 through 1950. The United States, Great Britain, Germany, Italy, and the Netherlands are the countries most extensively represented. There are also smaller but significant collections of materials from other countries, including Austria, Czechoslovakia, France, Hungary, Japan, and the former Soviet Union. The collection of more than 200,000 items includes works on paper, furniture, paintings, sculpture, glass, textiles, ceramics, lighting and other appliances, as well as a rare books library.

In addition to its permanent collection galleries, The Wolfsonian presents temporary exhibitions that address broad themes of the nineteenth and twentieth centuries, such as nationalism, political persuasion, industrialization, architecture and urbanism, consumerism and advertising, transportation, and world's fairs. Although drawing primarily on its own holdings, The Wolfsonian also features exhibitions and objects on loan from other collections.

Through its public programs, The Wolfsonian offers a range of lectures, films, symposia, tours, and workshops geared to visitors of all ages. It has partnered with Miami-Dade County Public Schools to develop activities and interpretive materials for students and teachers in the arts and social sciences. To inquire about an exhibition, program, or the general calendar, please visit **wolfsonian.org** or call 305-531-1001.

The Wolfsonian offers important resources to the FIU community. The museum provides tours of its galleries to student groups and courses and makes the collection of its rare books library (305-535-2634) available to students and faculty members for research projects. Students interested in learning more should contact the museum's associate director of research, education, and grants at 305-535-2613 or **jon@thewolf.fiu.edu**.

THE JEWISH MUSEUM OF FLORIDA-FIU

The Jewish Museum of Florida-FIU (JMOF-FIU) is the only museum dedicated to telling the story of more than 250 years of Florida's Jewish history, arts, and culture; its growing collection features more than 100,000 items. It is located in the trendy SoFi area of South Beach at 301 Washington Avenue. The museum is housed in two restored historic buildings that were once synagogues for Miami Beach's first Jewish congregation. The original synagogue was built in 1929, and the second, built in 1936, was designed by Art Deco architect Henry Hohauser and features 80 stained-glass windows, a copper dome, and a marble *bimah*. The two buildings are joined together by Bessie's Bistro, named after former Miss America, Bess Myerson.

While reflective of the Jewish experience in Florida, JMOF-FIU additionally creates understanding of the shared immigrant experience in our multicultural society. The museum's core exhibition, *MOSAIC: Jewish Life in Florida, 1763 to Present* began as a statewide grassroots collecting effort, which included gathering photographs, artifacts and oral histories from descendants of pioneer families, as well as the state's more recent arrivals. Mosaic traveled to 13 Florida cities from 1990 to 1994 and generated so much interest that, by 1995, it evolved into the Jewish Museum of Florida.

JMOF-FIU became part of FIU in 2012, creating a historic partnership that leverages the resources of the

museum and FIU to ignite a new era of interdisciplinary education and research. Using the lens of the evolving immigration experience of Jews in Florida, JMOF-FIU serves as a forum to promote tolerance; further global understanding; and create connections to Jewish culture, history, arts, and contemporary civic life for diverse audiences. Accredited by the American Association of Museums, JMOF has achieved a standard of excellence in its methodology for researching, collecting, conserving, archiving, storing, and interpreting its holdings.

The museum's extensive collection focuses on the people who have shaped and continue to influence the development of our state. The collection draws crucial links between their contributions; the social, political, economic, cultural, and religious aspects of Jewish life in Florida; and the relationship of Jews to the dominant non-Jewish population. As such, the collection offers a wealth of opportunity for students and faculty for scholarly research across subject matter from the arts and sciences to gender and religious studies, with artifacts, ephemera, documents, photographs, and oral histories from every region of the state.

JMOF-FIU presents a vibrant schedule of thought-provoking history and art exhibits that change periodically, paired with a dynamic array of programs that includes lectures, concerts, workshops, family activities, walking tours, and presentations of contemporary topics of Jewish issues and interests worldwide with international scholars and presenters. Many of the programs are in collaboration with FIU academic units including the Steven J. Green School of International and Public Affairs, Global Jewish Studies, and the School of Music as well as various cultural and community organizations.

For more information, please visit **jmof.fiu.edu** or call (305) 672-5044.

Continuing Education

FIU's Academic Planning and Accountability–Continuing Education (APA-CE) consists of two major program areas: credit programs and non-credit programs. Programs offered through Continuing Education extend the instructional and academic resources of the university by using innovative approaches. These include distance education, flexible class scheduling, customized training and off-campus educational programs. Local, state, national, and international communities are served with cost-effective, high quality , and distinctive programs and services.

ACADEMIC CREDIT PROGRAMS

APA-CE implements services and resources tied to academic credit courses and programs offered by schools and colleges. These courses and programs can be delivered online, hybrid, off-campus, and on weekends. Additional information is available through the respective colleges and school websites.

Continuing Education credit programs provide educational opportunities for working professionals and non-traditional students. In addition, these programs can be customized to meet employee-training needs at the work sites.

NON-CREDIT PROGRAMS

APA-CE develops and implements non-credit programs and is the official granting authority at FIU of general Continuing Education Units (CEUs). These non-credit programs maximize opportunities for lifelong learning and professional development to meet the business needs of the local, national, and international communities. APA-CE's non-credit programs are customized. Utilizing a variety of formats, these programs can be offered with flexible schedules by experts in the field, adding quantifiable value to organizations and the workforce.

Additional information regarding Continuing Education non-credit programs is available at **continue.fiu.edu.**

FIU ONLINE

FIU Online offers online academic credit courses and degree programs for traditional students, professionals, and adult learners. Additional information is available at **fiuonline.fiu.edu.**

Online graduate degree programs are competitive and allow students to choose from a variety of master's degrees in:

- Accounting: Assurance Track
- Accounting: Taxation Track
- African and African Diaspora Studies
- Business Administration: Professional MBA
- Business Administration: Healthcare MBA
- Computer Engineering: Network Security
- Construction Management
- Criminal Justice
- Curriculum and Instruction: Curriculum Development Track
- Curriculum and Instruction: Elementary Education Track
- Disaster Management
- Educational Leadership
- Engineering Management: Construction Management Track
- Engineering Management: Engineering Entrepreneurship Track
- Engineering Management: Enterprise Systems Track
- Engineering Management: General Track
- Engineering Management: Logistics Engineering Track
- Engineering Management: Production and Manufacturing Track
- Engineering Management: Systems Engineering Track
- Engineering Management: Operations Management of Orthotics and Prosthetics
- Finance
- Foreign Language Education: Teaching in Challenging Contexts Track
- Forensic Science
- Global Affairs: Cybersecurity and Technology Policy
- Global Affairs: International Crime and Justice Track
- Health Informatics and Analytics
- Health Services Administration
- Higher Education Administration
- History
- Hospitality Management
- Hospitality Management: Executive
- Hospitality Management: Mega Events Specialization
- Hospitality Management: Real Estate Development Specialization
- Hospitality Management: Revenue Management Specialization
- Human Resource Management
- International Business
- International Real Estate
- Internet of Things (Hybrid)
- Latin American and Caribbean Studies
- Logistics and Supply Chain Management
- Logistics Engineering
- Marketing
- Mass Communication: Global Strategic Communication
- Mass Communication: Spanish Language Journalism – Latin American and Caribbean Studies
- Mass Communication: Spanish Language Journalism and Media
- Music Education
- Nursing Practice (DNP)
- Psychology: Applied Behavioral Analysis
- Psychology: Professional Counseling Psychology
- Public Administration
- Public Health
- Religious Studies
- Research Design and Analysis
- Special Education: Autism Endorsement Specialization

FIU Online's Learner Marketplace also offers many courses and programs in a wide variety of disciplines, providing opportunities for professionals to glean the skills necessary for career growth.

Additional information is available at **learnermarketplace.fiu.edu**.

FIU Online also offers graduate professional certificates. Additional details and course requirements are available at **fiuonline.fiu.edu**

GRADUATE ADMISSIONS

Florida International University (FIU) encourages and accepts applications from qualified applicants without regard to sex, gender or gender identity; physical handicap; national origin; or cultural, racial, religious, or ethnic background or association.

MINIMUM REQUIREMENTS FOR ADMISSION INTO GRADUATE PROGRAMS

Applicants to a graduate program of the university must meet the minimum standards set forth by the university and the program. Applicants must check the individual program requirements before submitting their applications.

A student seeking admission into a graduate program offered by the university must have a bachelor's degree from an accredited institution or, in the case of foreign students, from a well-established institution of higher learning that is authorized to grant degrees by appropriate authorities in that country. The applicant must submit official transcripts, test scores and other supporting documents to Florida International University, Office of Admissions, PO Box 659004, Miami, FL 33265-9004. All credentials and documents submitted to Office of Admissions become the property of FIU. FIU will not return original documents to the applicant or forward to other institutions.

In the absence of specific program admission requirements, the applicant should have a minimum of a "B" average in the last 60 credits of upper-level work or a graduate degree from an accredited institution.

Degree programs individually determine admission requirements with respect to requiring nationally normed examinations and the required scores.

Admission at the graduate level is competitive and meeting minimum program requirements does not guarantee admission.

An applicant who fails to meet criteria may gain admission via an exception to the admission standards initiated by the specific academic department or program.

APPLICATION PROCESS

Students interested in applying for admission into a graduate degree program or a graduate certificate program must submit their applications online by visiting FIU's website at **admissions.fiu.edu/how-to-apply/graduate-applicant** for applications and instructions. Applicants are charged a $30.00 non-refundable fee (U.S. dollars) for each online application.

Application Deadlines for Domestic Students

SEMESTER	APPLICATION DEADLINE
Fall	June 1/PhD February 15
Spring	October 1
Summer	March 1

Note: Individual programs may have earlier deadlines. Applicants should check with their desired program to determine the application deadline.

INACTIVATION PROCESS

Applications are valid for term of application only. An academic department or program, on behalf of an applicant, may request deferral to a future term. Incomplete applications or applications for which a department or program has not made a decision will be cancelled by the ADD/DROP date of the applicable term. Likewise, No-Shows (i.e., admitted students who do not enroll for the term of admission) will have their admission revoked. Applicants seeking to reactive their admission files must submit new applications and pay application fees. The application fee is non-refundable under Florida Board of Governors Regulation 7.003(2)(i).

READMISSION

An admitted degree-seeking student who has not enrolled in any course at the university for three or more consecutive terms, including the summer term, will be required to apply for readmission. (This policy does not apply to students on military withdrawals or approved leaves of absence [LOA].) Students applying for readmission must meet university and program regulations in effect at the time of application for readmission. Applications for readmission and initial admission follow the same process. However, readmission does not require resubmission of previously submitted documentation. If the applicant has completed courses at another institution of higher education since attending FIU, the applicant must also submit transcripts from that institution. Doctoral readmission requires the academic unit to follow the Doctoral Readmissions Procedures outlined on the University Graduate School website.

CONDITIONAL MASTER'S ADMISSION

Master's-level graduate programs may recommend conditional admission to applicants who have undergraduate upper-level coursework grade point averages below 3.00 or who have standardized test scores below program requirements. Students who have already taken nine graduate credits at FIU are not eligible for conditional admission. Graduate credits (fewer than nine) earned will count towards satisfying the conditional admission. Applicants to doctoral or PhD-level programs are not eligible for conditional admission.

A student admitted conditionally is required to achieve a grade point average of 3.00 or higher for the first nine graduate-level credits and to complete these nine credits within the first three consecutive semesters, beginning with the term of admission. International students are not eligible for conditional admission due to Student and Exchange Visitor Program guidelines. Academic departments may petition the University Graduate School to fully admit international students on the basis of a holistic review of all admission documentation submitted.

TRANSFER OF GRADUATE CREDIT FROM OTHER INSTITUTIONS

Subject to approval of the program director, doctoral programs may accept up to 20 percent of the required total coursework of graduate credit earned from another institution beyond a bachelor's degree. An exception is

made for courses contained within an earned master's or doctoral degree. For such courses, the maximum is one fewer than half of the total credits required for the program.

Subject to approval of the program director, education specialist and master's degree programs may accept up to 20 percent of the required total coursework of graduate credit earned from another institution beyond a bachelor's degree.

Acceptance of transfer credits for a course is dependent upon the following provisions:

a. The student received a grade of 3.0 or better on a 4.0 scale;
b. The course was taken at an accredited institution;
c. As judged by the admission committee of the department or program, the course was relevant to the graduate program in which the student is accepted;
d. The course is listed on an official transcript received by the Office of Admissions;
e. the course will not be older than 6 years at the time of receipt of a master's degree or 9 years at the time of receipt of a doctoral degree (does not apply to credits earned as part of a completed graduate degree program)

Note: Students should verify this information with the appropriate graduate program director.

ACADEMIC RECORDS

The Office of Admissions must receive official transcripts directly from the issuing institution. Transcripts received through other channels are unofficial. Documents in a language other than English require translation by an official translation agency. Notarized translations are not acceptable.

ADMISSION OF INTERNATIONAL STUDENTS

In addition to general university admission requirements, foreign applicants must be academically eligible for graduate-level study in their own country.

Applicants from non-English-speaking countries, including internationally educated domestic students, must demonstrate proficiency in the English language.

The following is a list of acceptable methods for demonstrating English proficiency:

- Attaining Common European Framework of Reference for Languages (CEFR) B2 Level on recognized academic tests of English language, (e.g., Test of English as a Foreign Language [TOEFL] 80 iBT);
- Successfully completing—with passing grades for all content areas—Level Six of an FIU English Language Institute program;
- Completing ENC 1101, or its equivalent, with a passing score of C or better from an accredited U.S. institution or as part of a signed articulation agreement;
- (For applicants from institutions with an accreditation, or from other English-speaking countries) Holding an undergraduate or graduate degree;
- (For students applying to FIU under agreements for admission with foreign universities) Being eligible for a TOEFL waiver under terms of the agreement.

International student applicants must meet all the admission requirements of the university, as described in previous sections, and must comply with the following:

Application Deadlines for International Students

Due to the additional processing time needed, international students should submit their applications and supporting documents much earlier than students who are U.S. citizens or residents. International student deadlines are as follows:

SEMESTER	APPLICATION DEADLINE
Fall	June 1/PhD February 15
Spring	October 1
Summer	February 1

Note: Individual programs may have earlier deadlines. Applicants should check with their desired program to determine the application deadline.

Tuition for International Students

International students on F-1 or J-1 visas do not qualify for Florida residency and are assessed non-resident fees.

ANNUAL ESTIMATE[1] OF COSTS FOR NEW[2] INTERNATIONAL GRADUATE STUDENTS

Single Student (18 semester hours)	
Tuition and Fees[3]	$18,630
Living Expenses[4]	$21,594
Books and Supplies	$1,500
Medical Insurance[5]	$3,320
Total	$45,044

[1] Based on 2022-2023 costs.
[2] Admitted for fall 2006 or thereafter.
[3]Tuition and fees are subject to change. Fees include: Student Health Fee ($187.38 per year), the Athletics Fee ($20.00 per semester) and Transportation Access Fee ($181.40). Amounts shown reflect 18 graduate credit hours during fall and spring terms only.
[4]Living expenses are estimated at $1,933.00 per month to cover room, board, transportation, and personal expenses. This cost is for 9 months.
[5]All international students are required to carry medical insurance. This cost is for 12 months.

Declaration and Certification of Finances

The Declaration and Certification of Finances (DCF) must be completed and returned to University Admissions, Attn: International Admissions. Only admitted students receive a Certificate of Eligibility (Form I-20) for procurement of an F-1 student visa.

Immigration authorities require the university to certify the financial resources of each applicant prior to issuing the Form I-20. It is important that applicants are aware of the cost of attending the university and have the necessary supporting funds for the period of enrollment. Applicants should refer to the Annual Estimate of Costs chart. Applicants must demonstrate supporting funds equal to the total estimate of costs for 1 academic year by accurately completing the DCF. International Admissions must receive the DCF no less than 2 months prior to the anticipated entry date.

A student with accompanying dependents must show additional financial support on the DCF. An additional

$6,000 is required for a spouse, and $4,000 is required for each child.

MEDICAL INSURANCE

The State of Florida requires that all international students maintain health insurance coverage to help defray costs in case of catastrophic medical emergencies. The policy must provide specific levels of coverage, established to ensure that the policy is adequate to provide for costs at U.S. hospitals, costs which are usually much higher than those in many other parts of the world. In addition, a policy must have a U.S.-based claims agent accessible to medical providers to facilitate prompt payment of claims. The university has approved a plan that meets state requirements and the needs of most students; however, a student may select alternate coverage, provided it meets the state requirements for minimal coverage. A copy of these requirements is available from Student Health Services. Students should not purchase insurance policies prior to arrival without verifying that those policies meet FIU and state requirements. Compliance with the insurance regulation is required prior to registration.

FULL-TIME ENROLLMENT

U.S. immigration regulations require F-1 student visa holders to enroll full-time, except for summer terms, and to make satisfactory progress toward their degrees each term; student visa holders who do not make satisfactory progress jeopardize their immigration status. FIU defines full-time graduate enrollment as a minimum of nine semester hours during the fall and spring terms, and six during the summer term. Doctoral students who have reached candidacy must register for three credits per term. Master's students who have completed all requirements except for the thesis and who have an approved thesis on file with the University Graduate School must register for one credit per term.

It is the student's responsibility to comply with all visa requirements as stated under the U.S. laws Section 101(a)(15)(f)(i) of the Immigration and Nationality Act and the provisions of the USA PATRIOT Act.

Note: The university will not grant admission until an international student has met all requirements. Under no circumstances should an international student come to the university without having received the official Letter of Admission and Form I-20, and without having a valid F-1 visa.

All correspondence and document submissions should be directed to: Florida International University, Office of Admissions, Graduate Admissions, PO Box 659004, Miami, FL 33265-9004.

EMPLOYMENT

The legal regulations governing F-1 student employment are complex, and advisors are available in the Office of International Student and Scholar Services (ISSS) to explain these regulations. International students should not rely on employment as a source of income to finance their studies. In general, however, employment is available only to students who maintain their legal status in the U.S. under three categories:

1) On-campus employment: F-1 students may be employed on FIU campuses for a maximum of 20 hours per week during fall and spring semesters while school is in session, and full-time during holidays, vacations, and summer. On-campus employment includes teaching and research assistantships for graduate students and hourly part-time work.
2) Off-campus employment: F-1 students may request off-campus employment under very limited conditions and only after maintaining F-1 status for at least 1 full academic year.
3) Practical training: F-1 students may request training employment to accept jobs related to their studies. Students usually pursue practical training employment after completion of their degrees. In some limited cases, ISSS authorizes students for practical training employment prior to completion of their studies.

CREDIT FOR NON-COLLEGE LEARNING

Graduate credit will not be awarded for life experiences.

In cases where a student's experiences appear sufficient to develop the understanding and skills associated with a course, the student may register for independent study credits. A student may demonstrate competency through the development of an appropriate project under the guidance and approval of a faculty member specialized in the specific area of study.

Not more than 10 semester hours of a 30-semester-hour master's degree, or 15 semester hours of a 60-semester-hour master's degree, may be earned through independent study.

TUITION AND FEES

FEES

Registration and tuition fees are established by the Board of Trustees as required by the Florida Legislature. These fees are subject to change without notice. As of fall 2016, the authorized fees are:

PER CREDIT HOUR TUITION AND FEES FOR CONTINUING GRADUATE STUDENTS

	Florida Resident	Non-Florida Resident
Graduate	$436.68[a]	$982.73[b]
Per Semester Fees		
Intercollegiate Athletics	$10.00	$10.00
Student Health Services	$93.69	$93.69
Transportation Access[c]	$95.13	$95.13

[a] This amount includes $73.97 per credit fees.
[b] This amount includes $99.97 per credit fees.
[c] Transportation Access is $88.72 in the summer term. Fall/spring = $95.13; including the sales tax.

PER CREDIT HOUR TUITION AND FEES FOR NEW [a] GRADUATE STUDENTS

	Florida Resident	Non-Florida Resident
Graduate	$455.64[b]	$1,001.69[c]
Per Semester Fees		
Intercollegiate Athletics	$10.00	$10.00
Student Health Services	$93.69	$93.69
Transportation Access[d]	$95.13	$95.13

[a] Admitted for Fall 2006 or thereafter.
[b] This amount includes $75.69 per credit fees.
[c] This amount includes $101.69 per credit fees.
[d] Transportation Access is $88.72 in the summer term. Fall/spring = $95.13, including the sales tax.

TUITION AND FEE WAIVERS

Students using a tuition and/or fee waiver for part of the fee payment must pay their portion **on or before the last day to pay fees**.

For detailed requirements and updated information on tuition and fee waivers, please visit the FIU website for **Tuition and Fee Waivers**.

Pursuant to **Florida Statutes 1009.26**, **F.S. 1009.265**, **F.S. 1009.25** and **Board of Governors Rule 7.008**, FIU is authorized to waive tuition and associated fees for the following categories:

Congressman C.W. "Bill" Young Veteran Tuition Waiver Program

Pursuant to F.S. 1009.26 (13), the Congressman C.W. "Bill" Young Veteran Tuition Waiver Program allows FIU to waive out-of-state fees for:

1. An honorably discharged veteran of the United States Armed Forces, the United States Reserve Forces, or the National Guard who physically resides in this state while enrolled in the institution; or
2. Entitled to and uses educational assistance provided by the United States Department of Veterans Affairs for a quarter, semester, or term beginning after July 1, 2015, who physically resides in this state while enrolled in the institution.

Tuition and fees charged to a student who qualifies for the out-of-state fee waiver under this subsection may not exceed the tuition and fees charged to a resident student.

Veteran Non-Resident Tuition Waiver

Pursuant to F.S. 1009.26 and **Board of Governors Rule 7.008** FIU is authorized to waive the out-of-state portion of tuition for veterans of the United States Armed Forces, Guard, and Reserve forces, their spouses, and dependents who meet one of the following three conditions:

- Active-duty service member of the U.S. Armed forces stationed outside of Florida.
- Honorably discharged veterans of the U.S. Armed forces.
- Spouses and dependents of veterans who physically reside in the state of Florida and are using Veterans benefits for the term that the waiver is requested. Note: If your entitlement has run out or you are not using the Veterans benefits, you will not be eligible for the out-of-state waiver.

FIU Employee Waiver and Dependent Waiver

Pursuant to F.S. 1009.26 (3) and **Board of Governors Rule 7.008** FIU is authorized to offer eligible employees the opportunity to enhance their education by attending classes at the university with the intent of receiving a college degree or by attending classes that are related to their job assignment. If an employee does not enroll for credit hours in a given semester, the program allows the employee's dependent or spouse the opportunity to enhance their education by attending classes at the university, with the intent of receiving an undergraduate or graduate degree. For more information regarding FIU employee tuition waiver, please contact Human Resources.

Homeless or Temporary Shelter Waiver

Pursuant to Florida Statutes, Title XLVIII, K-20 Education Code, Chapter 1009 Educational Scholarships, Fees, and Financial Assistance, 1009.25(f) Fee exemptions, FIU is authorized to waive tuition and associated fees for any student who lacks a fixed, regular, and adequate nighttime residence, excluding university housing, or whose primary nighttime residence is a public or private shelter designed to provide temporary residence for individuals intended to be institutionalized, or a public or private place not designed for, or ordinarily used as, a regular sleeping accommodation for human beings.

Linkage Waiver

Pursuant to Florida Statutes, Title XLVIII, K-20 Education Code, Chapter 1009 Educational Scholarships, Fees, and Financial Assistance, 1009.21, international students from Brazil, Canada, China, Costa Rica, Eastern Europe, France, Israel, Japan, and West Africa are also eligible for

out-of-state tuition waivers through the Florida Linkage Institutes administered by other institutions.

Persons 60 years of age or older Fee Waiver
Pursuant to Florida Statutes, Title XLVIII, K-20 Education Code, Chapter 1009 Educational Scholarships, Fees, and Financial Assistance, 1009.26(4) Fee Waivers and Board of Governors Rule 7.008, persons 60 years of age and older who meet Florida residency requirements set forth in Rule 6C-7.05 and who attend credit classes in a state university may be allowed to enroll on a **space available basis without payment of fees**. No academic credit shall be awarded for attendance in classes for which fees are waived under this rule. Courses, such as Independent Study or individual instruction for which direct costs increase for each student admitted are not available under this free course policy.

Participants in Sponsored Credit Institutes and Programs Waiver
Pursuant to Statute Title XLVIII, K-20 Education Code, Chapter 1009 Educational Scholarships, Fees, and Financial Assistance, 1009.26 Fee Waivers, participants of sponsored credit institutes and programs are eligible to receive a waiver of tuition and fees for all courses of the designated program as authorized by the board of trustees of the university. The department offering a sponsored program will need to submit a list of all participants.

School of Psychology Training Programs Waiver
Pursuant to Statute Title XLVIII, K-20 Education Code, Chapter 1009 Educational Scholarships, Fees, and Financial Assistance, 1009.26(5) Fee Waivers, graduate students in a state approved school of psychology internship are entitled to a tuition waiver associated with the internship credit hours.

Victims of Wrongful Incarceration Waiver
Pursuant to Florida Statute Title XLVII, Chapter 961, 961.06(1B) and Board of Governors Rule 7.008, FIU is authorized to waive tuition and associated fees for up to 120 hours of instruction for an individual that was wrongfully incarcerated and has proof that the conviction was vacated by the court. In addition to the original sentencing court issuing its order finding that the person neither committed the act, nor did aid, abet or act as an accomplice or accessory to the act or offense can qualify for this tuition waiver.

State Employee Tuition Waiver
Pursuant to **F.S. 1009.265** and **Board of Governors Rule 7.008,** FIU is authorized to waive in-state tuition up to 6 credit hours for students who are employed by the State of Florida. Any special laboratory or other required student fees (except health fees and athletic fees) must be paid by the individual prior to the Last Day to Pay. Waiver is restricted to courses taken at FIU. State employees may register in regular lecture and laboratory courses. The following courses and programs are excluded: College of Law, Continuing Education courses including market rate & self-supporting programs, Undergraduate limited access programs, dissertation, thesis, directed individual study, directed research courses, internships, and any one-to-one instructional courses. All students are required to meet the course prerequisite requirements. Students should complete registration on their assigned appointment time (degree seeking students) or on the date appropriate for their program (non-degree seeking students, certificate students, transient students, etc.).

After enrolling in the semester, State Employees should submit their completed and approved State Employee Waiver Forms online through their MyFIU. Follow the steps to Submit Forms Online and select "Student Financials" as the department.

Department of Children and Family Care Waiver: Road to Independence and Adoptees
Pursuant to Florida Statutes, Title XLVIII, K-20 Education Code, Chapter 1009 Educational Scholarships, Fees, and Financial Assistance, 1009.25(2) (c-d) Fee exemptions, and Board of Governors Rule 7.008, FIU is authorized to waive tuition and fees for any student who is or was at the time he or she reached the age of 18 in the custody of the Department of Children and Families or a relative or nonrelative under section 39.5085, Florida Statutes; who was adopted from the Department of Children and Families after May 5, 1997; or after spending at least six (6) months in the custody of the Department of Children and Families after reaching 16 years of age. Additionally, material and supply fees and fees associated with enrollment in career preparatory instruction shall be exempted. Any student requesting this exemption must provide certification of eligibility from the Department of Children and Families or its contracted providers to the university in which the student seeks to enroll. This exemption shall remain valid up until the time the student reaches the age of 28.

FEE PAYMENT

Fees may be paid online through the MyFIU portal (**my.fiu.edu**) or in person at the Student Financials Office located on the Modesto A. Maidique Campus (Student Academic Success Center 101) and on the Biscayne Bay Campus (Academic Center One 140). The online payment system accepts credit card payments of AMEX, DISCOVER, MASTERCARD, and VISA. (Note: There is a 2.65% non-refundable convenience fee applied to all domestic credit card payments and a 4.25% non-refundable convenience fee for all international credit card payments). Check payments may be processed through the online system without a fee. The university is not responsible for cash sent through the mail. *Please take into consideration delivery and processing time when mailing your payment. The Student Financials Office is not responsible for any delayed or misdirected mail by the U.S. Postal Service or Campus Mail Services.* Failure to pay fees by established deadlines will result in late payment fee and may cause you to be dropped from all courses. See the *Fee Liability* section below.

Payment Plan

The payment plan will allow students to pay the current term's tuition and fees in two installments. The first/initial installment of a student's total tuition and fees must be paid by the Last Day to Pay, and the remaining balance will be due by the established installment due date deadlines. There is a $15.00 service charge to sign up for the plan. Enrollment in the Payment Plan can be accomplished by going to the MyFIU portal (**my.fiu.edu**) and selecting "Payment Plan" in the Finances section. Installments not paid on time will be subject to the late payment fee.

Late Registration Fee

Students who register after the established registration deadline will be subject to a $100 late registration fee.

Late Payment Fee

Students who pay fees after the established payment deadline will be subject to a $100 late payment fee. If applicable, this fee may be assessed in addition to the late registration fee described in the preceding section.

Financial Aid Recipients

Financial aid is available to those qualifying through the Financial Aid Office. A limited number of short-term loans are available to full-time enrolled students who may experience difficulties in meeting fee payment due dates.

All financial aid recipients must pay the difference between their financial aid or fellowship awards, less Federal Work Study and their final fee assessment. The student's schedule will then be automatically validated. Acceptance of a financial aid package constitutes acceptance of the above validation process.

Fee Liability

Students are liable for all fees associated with all courses in which they are registered at the end of the drop/add period. The fee payment deadline is published in the official university calendar. *If fees are not paid in full by the published dates, registration in all courses may be cancelled.*

Reinstatement of Classes

Appeals for reinstatement of registration for classes dropped for fiscal reasons must be filed in writing on the prescribed form with the Student Financials Office by the time specified on the cancellation notice. Reinstatement will be considered for all classes on the class schedule at the end of the drop/add period. Reinstatement cannot be requested selectively for certain classes. All reinstatement activity, including fee payment, must be completed by the date on the cancellation notice. All students whose registrations have been reinstated will be assessed a late payment fee. If the late registration fee is applicable it will also be assessed.

Application Fee

A non-refundable fee of $30 will be charged for each online application for admission to the university, unless deferred by the academic unit. Online applications will remain active for one semester.

Orientation Fee

A mandatory Graduate Orientation fee will be assessed of all newly admitted graduate students. The fee will cover administrative costs, materials/publications, and meal(s) associated with Graduate Orientation. New students admitted for fall 2009 and thereafter will have the $35 fee applied to their accounts automatically upon registering for classes.

CHECKS

The university will accept personal checks for amounts due to the university. These checks must be in the exact amount due only. The Student Financials Office will not accept checks above the amount due, third-party checks, or checks for cash. State law requires that a service fee be assessed on a check returned unpaid by the bank for any reason. Service fees are based on the amount of the unpaid check. Checks for $0.01-$50.00 are charged a $25.00 fee; $50.01-$300.00, a $30.00 fee; $300.01-$800.00, a $40.00 fee; and a fee of 5% of the amount of the check for all checks greater than $800.00. Checks returned by the bank can be redeemed only by cash, cashier's checks, or money orders. A personal check will not be accepted to replace a dishonored check. If a check is returned from an online payment, returned check fines will also be charged per the amounts indicated above.

Returned checks will be assigned to an agency for collection if not promptly paid. When an account has been assigned, the collection agency fee will be added to the university charges for collection at the current contract rate. Returned checks on student accounts will result in cancellation of classes and will require petition for reinstatement. See the Reinstatement of Classes section above.

The Student Financials Office will not accept a check on any student's account which has had two previous dishonored checks.

REFUNDS

Refunds will be processed and issued to all students whose fee accounts show overpayment after the last day to pay fees. Refunds will be issued via direct deposit. Direct deposit information can be entered online in the Finances section of the MyFIU portal (**my.fiu.edu**). If direct deposit information is not provided, the refund will be issued in the form of a check and will be mailed. Students to whom refunds are due will not be required to submit refund applications to receive their refund; it will automatically be calculated. If there is an amount due to the university in the accounts receivable system, the refund will be held until an arrangement to pay the prior balance has been made.

Students who have completed registration, have paid all fees due, and have completely withdrawn from the university prior to the end of the fourth week of classes are eligible for a refund of 25% of total fees paid.

In the following exceptional circumstances, a full refund of total fees paid will be made upon presentation of the proper documentation:

- Death of a student or immediate family member (i.e., parent, spouse, child, or sibling). Death certificate required.
- Involuntary call to military service. Copy of orders required.
- Illness of student of such severity or duration to preclude completion of courses. Confirmation by a physician required.

Processing of refunds will begin after the end of the add/drop period for each semester.

Refunds for tuition and fees are not available due to changes in the mode of education. No appeals are available for requests denied due to mode in education changes.

Appeals for tuition refunds must be submitted in writing to the Office of the Registrar within 6 months after the end of the term for which the refund is requested. There are no exceptions to this policy. Refunds for financial aid

recipients will be determined based on the US Department of Education "Return of Title IV Funds Policy (R2T4)."

PAST-DUE ACCOUNTS

Delinquent accounts are sufficient cause to prohibit registration, graduation, release of transcripts, or release of diplomas.

The university reserves the right to assign any past-due account to an agency for collection. When an account has been assigned, the collection agency fee will be added to the university charges for collection at the current contract rate.

Deadlines

Students are reminded that deadlines are strictly enforced. The university is not able to grant credit or to extend the fee payment period beyond the time set in its official calendar. The university does not have the authority to waive late fees unless it has been determined that the university is primarily responsible for the delinquency, or that extraordinary circumstances warrant such waiver. The university has no authority to extend deadlines for individual students beyond those set by the official calendar.

PARKING RULES AND REGULATIONS

All persons who park vehicles on the university's campuses must register their vehicle(s) with the department of Parking and Transportation, obtain a decal or permit, and display the decal or permit, as prescribed by the Parking Rules and Regulations. The university assumes no liability for vehicles parked or operated on university property. The issuance of a decal or permit does not guarantee a place to park.

Transportation Access Fee

All enrolled students will pay a Transportation Access Fee each semester. The fee will appear on the student fee schedule.

Students may request parking decals online at **parking.fiu.edu** or at the Parking and Transportation offices located in the PG5 Market Station at Modesto A. Maidique Campus, or in Wolfe University Center 353 at the Biscayne Bay Campus. Each student needs to bring a current vehicle registration when obtaining a decal at the office. All decals must be permanently affixed to the outside of the vehicle, either on the left side of the rear bumper or lower left corner, on the outside of the rear window. All decals are valid until the expiration date indicated on the decal. A duplicate decal will be issued, upon request, for an additional charge. This decal is valid only for the vehicle under which it is registered. Duplicate decals are available to persons who have obtained an original decal for the current academic year. The duplicate decals are for additionally owned vehicles and for situations where the original decal must be replaced due to an accident, maintenance, etc.

Housing

All students living in university housing complexes need to obtain a current semester housing sticker from Parking and Transportation. This sticker allows a vehicle to be parked legally in student housing areas. This sticker is valid for the indicated semester(s) only. This housing sticker should be affixed to the left or right side of a current student decal.

Disabled

Any person who has been certified in accordance with Sections 320.084, 320.0848, or 320.0842 of the Florida Statutes, and has been issued a Disabled placard by the Florida Department of Highway Safety and Motor Vehicles Bureau, shall obtain and display a university parking decal in the classification which would otherwise be appropriate.

Towing and Impoundment

The university may tow and impound any vehicle found to be parked illegally or in violation of these rules.

Rules and Regulations Pamphlets

A copy of the University Parking Rules and Regulations is available online at **parking.fiu.edu** and at the Parking and Transportation offices located in the PG5 Market Station at the Modesto A. Maidique Campus, or in Wolfe University Center 353 at the Biscayne Bay Campus. It is the responsibility of each student to become familiar and comply with the university's parking and traffic rules and regulations.

LIBRARY FINES

Per book per library hour	$0.25
Maximum fine per book	$10.00
Lost book fine	$100.00

Note: All fees are subject to change as permitted by law. Additional fees may be added and special-purpose fees may be assessed in some instances.

FINANCIAL AID

WHAT IS FINANCIAL AID?

Financial aid is a source of financial support provided by federal, state and local governments, universities, community organizations, and private corporations to help students meet the cost of attending college. It includes gift-aid (grants and scholarships) and self-help aid (loans and student employment).

- Grants are awards based on financial need that do not have to be repaid.
- Fellowships are non-repayable awards based on either merit, special talent, and/or financial need.
- Student employment allows students to earn money toward their education by working part-time while attending school.
- *Student loans are available to students at low **interest rates** (Federal Direct Loans).

APPLYING FOR ASSISTANCE

The Free Application for Federal Student Aid (FAFSA) is the form used annually to apply for most types of financial assistance. FIU's school code **(009635)** is required when completing the FAFSA. Applications for financial assistance are available annually on October 1st for the following academic year, which begins in August. FIU's annual priority deadline is **March 1st**. Applications completed after this deadline are processed in order of completion.

The FAFSA is available online:

- FAFSA web filers require an FSA ID (Federal Student Aid ID) to be used in lieu of student signature: **fsaid.ed.gov/npas**.
- The FAFSA can be completed at **fafsa.gov**.
- Using the Panther ID, students may check the "TO DO LIST" for any documentation required for file completion through **my.fiu.edu**.

ADMISSIONS

To be eligible for financial aid programs, a student must be admitted to a degree-seeking program. However, students should not wait until they are admitted to apply for assistance.

SUMMER ASSISTANCE

To receive Summer assistance for 2022, the 2021-2022 FAFSA must be on file. Summer awards are automatically posted, if there are no pending documents required and the student meets the preliminary review of Satisfactory Academic Progress (SAP) for Summer and the following academic year.

TRANSFER STUDENT PROCEDURES

Financial aid cannot be transferred from one post-secondary institution to another during the academic year. Students planning to transfer in mid-year should complete the FAFSA using both their current institution and Florida International University **(FIU Federal School Code 009635)** to ensure consideration for all applicable financial assistance.

ELIGIBILITY CRITERIA

To qualify for most need-based financial assistance, a student must meet the following basic eligibility requirements:

- demonstrate financial need;
- be a U.S. citizen or eligible non-citizen;
- be enrolled at least half-time in an eligible program of study (i.e., 5 graduate-level credits during the academic year);
- not be in default on a loan, or owe a repayment on Title IV aid received at any institution; and
- maintain satisfactory academic progress.

Additional requirements may apply depending on the aid programs for which a student is applying.

DETERMINING FINANCIAL NEED

Financial need is defined as the difference between the estimated cost of attendance and expected family contribution (EFC), the amount students/spouses can reasonably be expected to contribute toward educational expenses. Need analysis is a federally mandated formula that measures, in an equitable and systematic way, how much students and their families are expected to contribute toward their higher education. Income, assets (excluding a primary residence), family size, number of family members attending college, and other factors are evaluated to give a complete assessment of a family's financial strength.

Cost of attendance minus EFC= Financial need

VIEWING YOUR FINANCIAL AID

Students can view application status and awards using their Panther ID through the student portal, **my.fiu.edu**.

RETURN OF FINANCIAL AID POLICY

Federal regulations mandate that the Financial Aid Office comply with the Return to Title IV Funds (R2T4) policy. Any student who ceases attendance in a scheduled period of enrollment before completing 60% of the period of enrollment may be liable to repay all or a portion of the Title IV aid disbursed. A student who does not earn at least one credit with a D- or higher may be liable to repay all or a portion of the Title IV aid disbursed. Grades that affect Return to Title IV Funds are F, F0, IN, DR, W, WA, WI. Title IV funds include the following financial aid programs awarded to graduate students: Unsubsidized Stafford Loans, TEACH Grant, and Grad PLUS Loans. The amount of the return is based on formulas established by the U.S. Department of Education. For additional information regarding the Financial Aid Return to Title IV Policy, students may view the complete policy available on the OneStop webpage.

AWARD PROCEDURES

Award decisions for newly admitted students who complete their financial aid applications are issued annually in mid-February with an Early Estimated Financial Aid Notice. A financial aid package may consist of a combination of grants, loans, and student

employment. Other sources of assistance, such as merit awards and private and institutional scholarships, are taken into consideration when preparing the award.

Award decisions for returning students who meet the March 1st priority deadline should expect to receive a financial aid offer by July.

*The Financial Aid Office reviews Spring grades to determine if **Satisfactory Academic Progress** has been met before an award determination is made for Summer and the following academic year for all returning students.

SOURCES OF ASSISTANCE

The university participates in all federal- and state-funded programs. Institutional assistance is available for students with academic promise and financial need.

Graduate Assistantships

Graduate students pursuing master's or doctoral degrees may qualify for assistantships, fellowships, or other awards offered through individual graduate academic units. Applicants should contact the Graduate Program Director in the appropriate department.

FINANCIAL AID SERVICES

- ***Log On to FIU Panther Mail Today!*** FIU does most of its business electronically, including informing students of the Financial Aid Offer Notice that stipulates financial aid for a given academic year. Initial financial aid correspondence may be mailed to a student's local address. Thereafter, communications are sent electronically to FIU Panther Mail. Students are responsible for keeping their email addresses up to date. Students may use the "Self-Service Personal Profile" available via **my.fiu.edu** to update local information. To update other addresses (e.g. permanent), a student must visit OneStop.
- ***Financial Aid Counseling:*** OneStop representatives are available on a walk-in basis to assist students with special problems, technical questions, and exceptions.
- ***Web Access:*** Students may obtain information on the status of their application at **my.fiu.edu**.
- ***LIVE CHAT:*** Students can communicate online with Financial Aid representatives through PANTHERCHAT, available via the OneStop webpage: **onestop.fiu.edu**.
- ***Financial Aid e-forms:*** Requested financial aid forms can be obtained and e-forms Guides are available at **onestop.fiu.edu**.

For additional financial aid information, students may contact the OneStop Enrollment Services Office by telephone at (305) 348-7272. Students also may visit the Student Academic Success Center at Modesto A. Maidique Campus, or Enrollment Services (AC1 100) at the Biscayne Bay Campus.

THE OFFICE OF PRESTIGIOUS SCHOLAR DEVELOPMENT

The Office of Prestigious Scholar Development supports FIU students applying for nationally and internationally competitive scholarships and fellowships. Such awards are extremely competitive, and the applications require ample time to prepare. The Office of Prestigious Scholar Development provides guidance and mentoring to students throughout the entirety of the application process.

Many prestigious scholarships require institutional nomination, including (but not limited to): the Rhodes Scholarship, Marshall Scholarship, Mitchell Scholarship, Truman Scholarship, Goldwater Scholarship, and Udall Scholarship. For awards like these, FIU may only nominate a select number of students. The Office of Prestigious Scholar Development oversees the internal competition for nomination. In other cases, the office oversees campus interviews and/or evaluations for prestigious scholarships, such as the Fulbright Scholarship and Boren Awards.

For more information, please follow our Instagram page: @fiuprestigious. You may email the office at prestigious@fiu.edu.

THE OFFICE OF SCHOLARSHIPS

The Office of Scholarships is dedicated to helping students find, apply for, and attain national and university-based opportunities. We are committed to assisting undergraduate and graduate students develop the skills, personal commitment and drive needed to pursue and receive scholarships that align with their educational and professional goals.

Students engage in transformative experiences that allow them to reflect purposefully on and expand their perspectives of themselves and their world, furthering the university's commitment to collaborative engagement with local and global communities. By going through our process, FIU students improve their critical-thinking and persuasive-writing skills, and prepare to assume their roles as leaders, both locally and globally. Through national and regional scholarships and fellowships, FIU students become active ambassadors of our community to the outside world.

Some of the services we offer include:

- Meeting with students individually to discuss scholarship opportunities and guide them through the application process; and
- Providing information and resources to students in order to increase awareness of the scholarships available and the process involved in attaining them;

Please visit our website at **scholarships.fiu.edu**, email us at **scholarships@fiu.edu** or visit us at the Modesto A. Maidique Campus (Primera Casa 158).

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UNIVERSITY GRADUATE SCHOOL RULES AND REGULATIONS

CLASSIFICATION OF STUDENTS

Students are classified as degree-seeking students and non-degree-seeking students.

Degree-Seeking Students

Degree-seeking students are students who have been admitted into a degree program, but have not completed the requirements for the degree.

Non-Degree-Seeking Students

Non-degree-seeking students may be: (1) Graduate Certificate students; (2) Advanced Diploma students; (3) students affiliated with a College or School; or (4) unaffiliated students. Students who are unaffiliated are limited to taking 12 credits at the University. Affiliated students must be approved by a College or School and may take up to 12 hours of coursework or more with departmental approval as a non-degree-seeking student. Higher allowable course hours apply to students accepted in Graduate Certificate or Advanced Diploma programs.

The following regulations apply to non-degree-seeking students:

1. A $30.00 non-refundable application fee (U.S. dollars) made payable to Florida International University (FIU) must accompany applications submitted.
2. Non-degree-seeking students are not required to meet the usual admission requirements and are not officially admitted as regular students. Enrollment as a non-degree-seeking student does not imply a right to be admitted in the future as a regular, degree-seeking student. Credits earned as a non-degree-seeking student will not be counted toward a degree at the University unless such a student subsequently applies for regular admission and is accepted as a degree-seeking student. Credits must meet time limit and grade of no less than a “B”.
3. Registration is permitted only on a space-available basis and is determined at the time of registration.
4. No more than 12 graduate-level semester hours earned as a non-degree-seeking student may be counted toward a degree. The acceptance of such credits must be recommended by the graduate program and approved by the Academic Dean. Graduate Certificate students may count up to 18 graduate-level credits, provided they meet the requirements specified below under Graduate Certificates. Applicants denied admission to the University will not be allowed to register for courses in any program or as non-degree-seeking students for a period of one year.
5. Immigration regulations prevent most foreign nationals from enrolling in courses without being admitted into a formal degree or certificate program, depending on the type of visa that they hold. International students should contact the **Office of International Student and Scholar Services** for further information.

Affiliated Students

Students applying for affiliated status as non-degree seeking students must be approved by the appropriate academic department and the University Graduate School in accordance with criteria approved by that College or School’s Faculty Curriculum Committee. Non-Degree Seeking student policies apply to Affiliated Students. The form and instructions are available at **onestop.fiu.edu/forms**.

Graduate Certificate Students

Students seeking admission to a Graduate Certificate program need to apply through the Office of Admissions using the online application form. Students fully admitted and enrolled in other programs may use the paper application available through the Office of Admissions to apply to certificate programs. The normal application fee applies to Graduate Certificate applications.

ACADEMIC DEGREE REQUIREMENTS MASTER’S DEGREE

Course Requirements

Programs leading to a master’s degree will normally require at least 30 credit hours of non-thesis course work. Master’s programs normally include courses at the 5000 and 6000 levels. No course counted toward a student's undergraduate degree may be included in that student's Masters degree program except in approved 4+1 bachelor’s-master’s degree programs.

Thesis Requirements

Thesis committees must have a minimum of three members, at least two of whom are from the unit offering the degree. All FIU faculty who are members of the thesis committee must be members of the Graduate Faculty. All committee appointments must be approved by the Dean of the University Graduate School.

A thesis proposal must be approved by the University Graduate School at least one semester prior to the date of graduation.

Once an approved thesis proposal is on file, continuous registration for at least 1 thesis credit hour each semester (including the summer term) is required until the thesis requirement is fulfilled. During the academic year, international students must maintain full-time enrollment.

Time Limits

For the Master of Fine Arts degree, all requirements, including the successful defense of a thesis where required, must be completed within eight years of first enrollment in the master's program. For all other master’s degree programs, all requirements, including the successful defense of a thesis where required, must be completed within six years of first enrollment in the master’s program. No courses used in a program of study that are beyond these time limits at the time of graduation can be used toward degree completion, with the exception of credits that are part of an earned graduate degree.

Graduation Requirements

The University will confer the master’s degree when the student has met the following conditions:

1. Earned an overall average GPA of 3.0 in all courses in the graduate degree program.
2. Recommended by the faculty of the College or the School.
3. If applicable, submission of the final approved thesis via ETD.
4. Certified by the Academic Dean of the College or the School that all requirements for the degree being sought have been completed.

Master's students who have been recommended for the degree by the faculty of the School or College may participate in the commencement ceremonies.

DOCTORAL DEGREE

Course Requirements

Programs leading to a doctoral degree require at least 75 credit hours beyond the bachelor's degree. These shall include a minimum of:

1. 30 credit hours earned in academic courses which are part of the doctoral program. Doctoral programs normally include courses at the 6000 level and above. Courses at the 5000 level may be included in a doctoral degree program in appropriate cases.
2. A student may enroll for dissertation credits after completing all coursework, passing the candidacy examination, and being advanced to candidacy. Dissertation credits may not be taken before advancement to candidacy.

Dissertation Requirements

Candidacy

A student is admitted to candidacy upon successfully completing all required coursework, language requirements, and qualifying examinations and passing the candidacy examination. Some programs require students to defend the dissertation proposal as part of candidacy. The student's written request for candidacy must be approved by his or her major professor and forwarded to the program director, the unit dean, and then to the Dean of the University Graduate School.

Each candidacy examination must be prepared and graded by a committee consisting of a minimum of three faculty of the academic unit offering the degree. Admission to candidacy requires that a majority of the committee members agree that the student passed the examination. A candidacy examination may not be passed conditionally. A "Pass" on the examination cannot be made contingent upon other factors, such as the completion of additional coursework or the preparation of extra research projects.

Students must be informed in writing of the results of their performance on the examinations within 30 days of the examination date. If the student fails the candidacy examination the committee, at its discretion, may provide for reexamination at a mutually satisfactory time but no more than one year from the original date of the examination. Passing the candidacy examination is requisite to continuing in the graduate program. Students who fail the candidacy examination twice will be dismissed from the doctoral program.

After a doctoral student is admitted to candidacy, continuous registration for at least 3 dissertation credit hours each semester (including the summer term) is required until the dissertation requirement is fulfilled. During the academic year, international students must maintain full-time enrollment.

Dissertation Committee

Dissertation committees must have a minimum of four members: At least two of the four must be from the academic department offering the degree, at least one must be from the another academic department at FIU, the fourth member may be: 1) from the academic department offering the degree, 2) from another academic department at FIU, 3) from outside the institution who has been reviewed and approved by the academic department and the University Graduate School. All FIU faculty who are members of the dissertation committee must be members of the Graduate Faculty, and the chair of the dissertation committee must hold Dissertation Advisor Status. All committee appointments are made by the Dean of the University Graduate School.

Dissertation Proposal

A dissertation proposal must be approved by the University Graduate School at least three semesters prior to the date of graduation.

Time Limits

All requirements, including the successful defense of a dissertation, must be completed within nine years of first enrollment in the doctoral program. No courses used in a program of study that are beyond these time limits at the time of graduation can be used toward degree completion, with the exception of credits that are part of an earned graduate degree.

Graduation Requirements

The University will confer the doctoral degree when the student has met the following conditions:

1. Earned an overall average GPA of 3.0 in all courses in the graduate degree program.
2. Completed and defended satisfactorily a doctoral dissertation.
3. Recommended by the faculty of the College or the School.
4. Submission of the final approved dissertation via ETD.
5. Certified by the Academic Dean of the College or the School that all requirements of the degree being sought have been completed.

Doctoral students must have completed all requirements for the degree in order to participate in the commencement ceremonies.

GRADUATE CERTIFICATE PROGRAMS

A certificate program is a combination of courses with a common base or interest selected from one or more academic disciplines and so arranged as to form an area of academic concentration. Three types of certificates are awarded: academic, professional, and continuing studies. Students must apply and be admitted into the certificate program through the academic department.

Graduate Certificates require 15 to 18 hours of graduate credit. At least six of the hours must be in core

courses taken by all individuals obtaining a given Graduate Certificate.

All the credits earned in a Graduate Certificate Program may be used in a master's degree program, provided the student is admitted to the master's degree program prior to the completion of no more than 12 Graduate Certificate credits. Non-Degree-Seeking student policies apply to Graduate Certificate students.

In all cases, the Graduate Program Director will evaluate whether or not the Graduate Certificate credits are acceptable in that particular graduate program.

CHANGE OF GRADUATE DEGREE PROGRAM

Only fully admitted and enrolled students may apply to change a graduate degree program without paying an additional application fee. All other students must submit a request through the Graduate Admissions process. Change of Graduate Degree Program forms are evaluated as new applications by the department into which the student wishes to transfer. A "Change of Graduate Degree Program" form and instructions are available on the University Graduate School website at: **gradschool.fiu.edu/students/#studentforms**.

REGISTRATION

Students should verify dates and registration information on the Academic Calendar by visiting the OneStop website: **onestop.fiu.edu**.

All degree-seeking students registering for more than 15 credits in any given semester must obtain the approval of the Dean of the University Graduate School. Registration for courses is as follows:

Official Registration is held during the preceding semester (check the Academic Calendar for the dates). Degree-seeking students are given an appointment day and time based on their student classification. Students may also add/drop at this time. **Open Registration** is held following Official Registration. There is no appointment day and time and registration is on a first-come, first-served basis; for degree-seeking students. Students who have not yet registered are encouraged to do so at this time. Students who have already registered may also add or drop courses during this period.

Registration Access

All students are able to retrieve their grades, registration appointment time and day; classroom assignments; registration holds (if any) and register/drop/add courses using the **MyFIU Self-Service portal** (**http://my.fiu.edu**). Students must use their Panther ID and password in order to utilize the system.

New students must reset their passwords at **myaccounts.fiu.edu** in order access their FIU accounts. Current students experiencing difficulties with accessing their FIU accounts may reset their password at **myaccounts.fiu.edu**.

IMMUNIZATION

As a prerequisite to registration, Florida International University (FIU) requires all students to comply with the following immunization policy regulations from the Florida Board of Governors regarding measles, mumps, rubella, meningitis, and hepatitis B immunity. **ALL** students **MUST** submit the Immunization Documentation Form 4 weeks prior to registration to release any holds that may prevent them from registering:

1. **Measles, Mumps, Rubella:**
   All students born after December 31, 1956, must present documented proof of immunity to measles (Rubeola) and German measles (Rubella), as described below:
   Acceptable Proof of Immunity consists of:
   a. Proof of two (2) vaccinations (doses) of MMR (Measles/Mumps/Rubella) received at least 28 days apart or two doses of measles and one Rubella
      - Vaccinations must have been received after your first birthday
      - Vaccinations must have been received in 1969 or later
   b. Proof of immunity by way of a blood test lab result (Measles and Rubella Titer)
   c. A written statement from physician (M.D. or D.O. **ONLY**) documenting a diagnosis of measles (Rubeola). Must include date of diagnosis, be signed by the healthcare provider and be on his/her official stationery. This is acceptable for measles only and does not apply to Rubella

   Exemptions:
   Students will be exempt from the pre-registration immunization requirement for measles, mumps, and rubella, only if they meet any one of the following three criteria:
   1. Students born before January 1, 1957.
   2. Medical Exemption: To claim a medical exemption, the student must submit the Personal Physician Immunization Waiver form signed by their personal physician.
   3. Religious Exemption: For details on how to claim religious exemption, please contact the Health Compliance Office at 305-348-2688.

To prevent delays in the ability to register for classes, all documents requesting medical or religious exemptions must be received by the Student Health Services at least four weeks prior to registration.

Temporary Deferments are accepted for the following conditions:

1. Documented pregnancy or fertility treatment
2. Documentation of breastfeeding
3. Documented illness

Deferment status requests must be submitted to the Student Health Services at least four weeks prior to registration, and the request must be signed by a MD/DO physician, nurse practitioner, or registered nurse and be on their official stationery.

2. **Meningitis and Hepatitis B:**
   All students must present documented proof of vaccination/immunity to meningococcal meningitis and hepatitis B as described below:
   Acceptable Proof of Immunity consists of:
   a. Proof of one dose of meningitis vaccine and a total of three doses of hepatitis B vaccines
   b. Proof of immunity by way of a blood test lab result (applicable to hepatitis B only)

c. A written statement from a physician (M.D. or D.O. **ONLY**) documenting a diagnosis of hepatitis B. Must include date of diagnosis, be signed by the physician and be on their official stationery. This is acceptable for hepatitis B only and does not apply to meningococcal meningitis

Exemptions:

Students declining to receive vaccination for meningitis and/or hepatitis B must present a signed waiver of liability acknowledging that they have received and read information pertaining to the disease and despite knowledge of the risks have decided to waive receiving the vaccine. These waivers can be signed on my.fiu.edu in the Student Center, under the Immunization Waivers link in the "Student Health Center" tab. The student must be over 18 years of age to sign the waiver. The online waiver is processed immediately. NOTE: A parent or legal guardian must sign the waiver for any minor under the age of 18.

Acceptable Forms of Documentation:

The following documents are acceptable proof of immunity, provided that the dates are acceptable and the documents are signed and stamped by the healthcare provider:

- FIU Immunization Documentation Form
- Health Department Records
- Childhood Immunization Records
- School Immunization Records
- Military Service Records
- Documentation of having the disease during their lifetime **ONLY** applies to Measles (Rubeola) and Mumps
- Laboratory test results demonstrating immunity to the disease:
  - Measles (Rubeola) positive IgG titer required
  - Rubella positive IgG titer required
  - Hepatitis B positive AB antibody surface titer required
  - Meningitis lab test **NOT valid and WILL NOT be accepted**

Can't Find Your Immunization Documents?

If the student cannot locate their immunization records and is confident they have taken the vaccines, they can submit a ***positive*** lab test against both the Measles and Rubella and/or Hepatitis B. The student also has the option to take the required vaccines again with their personal physician, at a local health department, or at the FIU Student Health Clinics..

Where can I get immunized?

MMR, meningitis, and hepatitis B vaccines are available for a nominal fee at the FIU Student Health Clinics on both the Modesto A. Maidique Campus and Biscayne Bay Campus. To schedule an appointment for a pre-matriculation vaccine please call 305-348-8385. Any student under the age of 18 must present the Student Clinic Consent For Treatment of a Minor form signed by their parent/legal guardian with an attached copy of the parent/legal guardian valid photo ID.

LATE REGISTRATION FEE

Any student, degree-seeking or non-degree-seeking, who initiates registration during the Drop/Add period is assessed a $100.00 late registration fee.

DROPPING AND ADDING COURSES

During the official add/drop period (check the Academic Calendar for specific dates), a student may add and drop courses without financial penalty or initiate registration with financial penalty (i.e., the late registration fee). Students may also drop courses or withdraw from the University with no record of enrollment and without a tuition fee liability. If the tuition fee has already been paid, the student may be eligible for a refund that will be generated by the Student Financials Office and processed accordingly.

Students are responsible for their own enrollment and for adhering to all published deadlines for enrollment activity.

LATE DROPS

Courses officially dropped after the Drop/Add period and through the last day to drop for the term, (check the Academic Calendar for specific dates), are recorded on the student's transcript with a grade of 'DR' (dropped). The student is financially liable for all dropped courses. Before withdrawing from the institution (i.e. dropping all courses with DR grades), financial aid students should refer to the "Return of Financial Aid Policy" section of this catalog. *Non-attendance or non-payment will not constitute a drop.*

PETITION TO DROP/WITHDRAW

A student may submit a petition for an exception to an enrollment deadline for a late drop by submitting a completed student petition form to OneStop. A drop after the deadline will be approved only in the following exceptional circumstances:

1. Death of a student or immediate family member (parent, spouse, child, sibling, or grandparents).. Death Certificate and documentation establishing relationship are required.
2. Call to active military service. Copy of orders required
3. Illness of student of such severity or duration to preclude completion of courses. Confirmation by a physician required.

FIU will consider student petitions and appeals for late drops/withdrawal within six months after the end of the term in which the course was taken. In extraordinary circumstances, FIU can review exceptional requests for late drops beyond the six-month limit. However, in addition to the supporting documentation required for a completed petition, FIU requires documented rationale that warrants an exception to the six-month deadline. Because we may need to seek additional guidance from Student Health Services, Veterans' Affairs administrators, or other departments, we require six to eight weeks to provide students with decisions concerning late drops/withdrawals for courses taken more than six months prior to the submission of the petition.

WITHDRAWAL FROM THE UNIVERSITY

A currently registered student can withdraw from the University only during the first eleven weeks of the semester. In the summer semester, withdrawal deadlines will be adjusted accordingly. A Withdrawal Form must be completed and submitted to the OneStop Enrollment Management & Services. *Non-attendance or non-payment will not constitute a withdrawal.* (Refer to the Academic Calendar for the deadline dates.)

The transcript of a student who drops all classes before or during the first week of classes will contain no record of enrollment and no tuition fee will be assessed. If the tuition has already been paid, a refund will be generated by the Student Financials Office and mailed to the local address on file. If a student officially withdraws from the University prior to the end of the fourth week of classes, a 25 percent refund, will be issued.

The transcript of a student who officially withdraws after the Drop/Add period and before the end of the last day to drop for the term will reflect a 'WI' for each course.

GRADING SYSTEM

Grade		Points Per Credit Hour
A		4.00
A-		3.67
B+		3.33
B		3.00
B-		2.67
C+		2.33
C		2.00
D		1.00
F	Failure	0.00
F0	Failure based on non-attendance	0.00
P	Satisfactory (Pass)	N/A
IP	Thesis/Dissertation in Progress	N/A
U	Unsatisfactory	N/A
EM	Credit by Departmental Examination	N/A
IN	Incomplete*	N/A
AU	Audit	N/A
W	Withdrew from Course	N/A
WA	Administratively Withdrawn	N/A
WI	Withdrew from the University	N/A
+	National/International Student Exchange	N/A
U	Unsatisfactory	N/A
S	Satisfactory	N/A
DR	Dropped Course	N/A
NG	No Grade Assigned by Instructor (system generated)	N/A

*An incomplete grade (IN) is a temporary grade. If a student has not met the terms and conditions associated with the incomplete grade within two semesters of the grade's assignment, then the IN will become an F (or failing) grade.

HOW TO CALCULATE GRADE POINT AVERAGE (GPA)

GPA is calculated for all students. GPAs are calculated only for grades earned at FIU.

There are two types of GPAs: Semester and Cumulative. The semester GPA is calculated using the courses taken in that semester. The cumulative GPA is a summary of all FIU courses taken over a student's career. Remember, when a student's career changes (i.e., undergraduate to graduate), the GPA calculation begins anew. Transfer course grades are not included in any GPA calculations. To calculate a GPA, one must know the course grade, the course credits or semester hours associated with that course, and the values associated with each grade assigned. See the **Grading System** list above for **"Points Per Credit Hour"** values.

To calculate a GPA, first multiply the number of course credits/semester hours for each course by the grade point values associated with the grade received in that course. Then add all of those totals together and divide that sum by the total number of course credits/semester hours. For a semester GPA use all regularly graded courses in that semester (plus P/F courses in which an F or U was earned), and for the cumulative GPA use all courses. Do not average semester GPAs in order to calculate the cumulative GPA.

Note: All GPAs are rounded to two decimal points.

Note: On the Grading System list above, some grades will not affect GPA, such as "P" (Satisfactory), "U" (Unsatisfactory), "IN" (Incomplete) or "DR" (Dropped). Thus, do not include the credits for such graded courses in the calculation.

Here is an example of semester GPA calculation:

Calculating a Semester GPA

Course	Grade	Course Credits Attempted	Points Per Credit Hour	Points Per Course
EDF 5481	B	3.0 x	3.00 =	9.00
EDH 6905	B+	4.0 x	3.33 =	13.32
FIN 6719	A-	3.0 x	3.67 =	11.01
CRW 5934	A	1.0 x	4.00 =	4.00
PAD 6434	C	3.0 x	2.00 =	6.00
PAD 6701	F	3.0 x	0.00 =	0.00
Total		17		43.33
Semester GPA		43.33 divided by 17 = 2.548		

GRADING OPTIONS

The Colleges and the Schools make the determination of the grading option of each course except for thesis and dissertation credits. A course may be offered for a letter grade as listed above or Pass/Fail. The student may choose to audit a course and an 'AU' grade will be recorded on the student's record. The grading option must be indicated at the time of registration. The grading option cannot be changed after the add/drop period. There are no exceptions to this deadline. The grading options for thesis and dissertation credits are Pass, In Progress, Unsatisfactory, and Fail.

To register for an audit, the student must obtain the permission and signature of the instructor of the course audited. Once the student is registered in the course as "Audit," the grading option cannot be changed. Tuition and fees are the same whether the student is taking the course for credit or for audit.

INCOMPLETE GRADE

A grade of incomplete (IN) is a temporary symbol given at the discretion of the instructor for work not completed because of serious interruption not caused by the student's own negligence. An incomplete must be made

up as quickly as possible but no later than two consecutive semesters (including Summer semester) after the initial taking of the course, or it will automatically default to an "F" grade. There is no extension of the two-semester deadline. The student must not register again for the course to make up the incomplete.

GRADE FORGIVENESS

Graduate courses are not authorized for grade forgiveness.

CHANGE OR CORRECTION OF GRADES

Once submitted, end-of-semester grades (except Incompletes, which default at the end of two terms) are final. They are subject to change only through a Change of Grade process to correct an error in computation or transcription, or where part of the student's work has been unintentionally overlooked.

FINAL WEEK OF THE SEMESTER

During the last week of the semester, classes meet for an extended period of time for various instructional purposes such as: final exams, lectures, group projects, and/or individual presentations.

FINAL GRADES

Final grades are available through the **MyFIU Self-Service portal** (**my.fiu.edu**).

TERM COURSES ARE OFFERED

Listed next to certain courses in this catalog are the designations 'F', 'S', and 'SS'. These designations indicate that the academic department normally offers these courses during the Fall ('F"), Spring ('S'), Summer ('SS') terms. Students should be aware that there are circumstances beyond the University's control (low enrollments, financial constraints, or other extenuating situations) which may result in the courses not being offered as indicated. The University is not responsible for failure to offer a course as indicated.

APPLICATION FOR GRADUATION

Students who plan to graduate are required to apply for graduation through the **MyFIU Self-Service portal** (**my.fiu.edu**) and to be enrolled in graduate-level courses in the graduating term.

Students whose graduation application is denied by their academic department must re-apply for graduation and complete the remaining requirements needed to graduate. A graduate student must be enrolled in at least 1 graduate credit and a doctoral student must be enrolled in at least 3 dissertation credits during the semester they graduate. Students cannot graduate the same semester they are readmitted to the University.

ACADEMIC WARNING, PROBATION, AND DISMISSAL

Academic Warning

A graduate student whose cumulative graduate GPA falls below a 3.0 will be placed on warning, indicating academic difficulty. The designation will be notated on the transcript.

Academic Probation

A graduate student on warning whose cumulative graduate GPA remains below 3.0 in the following semester will be placed on probation, indicating serious academic difficulty. The designation will be notated on the transcript. The College or School of the student on probation may indicate the conditions which must be met in order to continue enrollment.

Academic Dismissal

A graduate student on probation whose cumulative and semester GPA's fall below a 3.0 will be automatically dismissed from his or her program and the University. The designation will be notated on the transcript. A graduate student will not be dismissed prior to attempting a minimum of 12 hours of coursework as a graduate student. The student has ten working days to appeal the dismissal decision. This appeal must be made in writing to the Dean of the University Graduate School. To appeal, a Petition for Exception to Graduate Requirements must be completed. The petition is an online process which is initiated by the academic unit in which you were pursuing your degree. Should you wish to initiate this appeal, you must contact your academic unit. The dismissal from the University is for a minimum of one year and prohibits students from registering for any courses. After one year, the student may apply for readmission to the University in the same or a different program, or register as a non-degree-seeking student if applicable.

Dismissed students who are readmitted or who register as non-degree-seeking students are placed on academic probation.

STUDENT RECORDS

FIU maintains student education records in a confidential and secure manner in accordance with the Family Educational Rights and Privacy Act (FERPA) codified in 20 U.S.C. section 1232g, and sections 1002.225 and 1006.52, Florida Statutes.

Student academic records are maintained in the Office of the Registrar and in the academic department of the student's major. Students in some degree programs may be subject to background checks and/or drug testing prior to eligibility for internships or practicums. All currently enrolled and former students have the right to review their records to determine their content and accuracy.

RELEASE OF STUDENT INFORMATION FROM EDUCATION RECORDS (FERPA ANNUAL NOTICE)

FIU will not release or permit access to education records or personally identifiable information maintained on a student except as otherwise permitted by law and **FIU Regulation 108 – Access to Student Education Records**.

A student's consent is required for the disclosure or publication of any information which is a) personally identifiable and b) a part of the educational record. However, certain exceptions to that generality, both in

types of information that can be disclosed and in access to that information, are allowed within the regulations of the FERPA. The University may disclose information pertaining to the student to a parent/legal guardian as long as the student submit a FERPA form authorizing the disclosure.

FIU discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the University. Upon request, the University also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

The University may disclose, without consent, "directory," or public, information, which is information available about a student that is not considered harmful or an invasion of privacy if disclosed. While FERPA and state law protect the privacy of educational records, directory information is not treated as confidential and may be disclosed by the University without student consent unless the student has placed a FERPA block via their MyFIU Self-Service portal.

FIU considers the following to be directory information items:

1. Student's name:
2. student classification and major and minor fields of study;
3. participation in officially recognized activities and sports;
4. weight and height of members of athletic teams;
5. dates of attendance, and degrees and awards received;
6. the most recent previous educational agency or institution attended by the student;
7. photographic image.

In order to prevent access to or release of directory information, students must request non-disclosure through their **MyFIU Self-Service portal**. Access to, or release of directory information will be withheld until further written instruction is received from a student.

Students have a right to challenge the accuracy of their educational records and may file written requests to amend these records. The Office of the Registrar (PC 135) should be contacted for further information regarding the procedure to follow for questions or problems.

For complete information regarding the policies outlined above, please refer to the Student Privacy and FERPA website or contact:

University Registrar
Florida International University
Modesto A. Maidique Campus - PC 135
Miami, Florida 33199
E-mail:**ferpa@fiu.edu**

TRANSCRIPTS

The transcript is the complete student record of courses taken at the University, in addition to the number of transfer credits accepted. Once FIU awards a degree to a student, the student's academic history associated with the degree cannot be changed.

The GPA is calculated for all courses taken at the University after Fall 1975. Once a baccalaureate, master's, or doctorate degree is earned, the GPA calculation starts again. After the completion of an undergraduate degree at FIU and upon admission to a graduate degree the GPA calculation must and will be re-started. The GPA for students who have completed an undergraduate or graduate degree at FIU and return to pursue an additional degree within the same academic level, i.e., undergraduate to undergraduate or graduate to graduate, will be reset. To trigger this reset process, the student's advisors, academic department and/or college must contact the Office of the University Registrar by emailing OneStop@fiu.edu.

Students must request their transcript online. The transcript will not be released if the student has a University financial liability and/or a defaulted student loan. Other holds may prevent the release of official transcripts. Students should contact the department who assigned the hold if clarification is needed. The University charges a $10.00 per transcript. In accordance with Florida Statute 1009.26 (17a), FIU students who are active-duty military, honorably discharged veterans of the United States Armed Forces, or spouses and/or dependents may be eligible for a transcript fee waiver. Please refer to the View or Order Transcripts page for further information.

CLASS ATTENDANCE

The University expects students to attend their classes to create an effective learning environment in which to master course content and satisfy performance objectives and learning outcomes as outlined by instructors.

Instructors may establish specific class attendance requirements and may consider attendance and participation in class in evaluating student performance. During the first week of class, instructors must inform students of any special requirements and articulate any penalties, including a failing grade that may result for non-attendance.

In general, instructors must excuse students from classes due to their military obligations, jury duty, religious days, illness, disability accommodations as approved by the Disability Resource Center, serious family emergencies and/or participation in official university activities (i.e., athletic events, artistic performances, curricular activities). Instructors must afford students a reasonable amount of time to complete course work and/or assignments missed during their approved absence.

Only registered students appearing on an official class roster may attend a class at the University.

POLICY STATEMENT WITH REFERENCE TO RELIGIOUS HOLIDAYS

A faculty member who wishes to observe a religious holy day shall make arrangements to have another instructor teach the class in his or her absence, if possible, or shall reschedule the class.

Because there are some classes and other functions where attendance may be considered essential, the following policy is in effect:

1. Each student shall, upon notifying his or her instructor at the beginning of the semester, be excused from class to observe a religious holy day of his or her faith.
2. While the student will be held responsible for the material covered in his or her absence, each student shall be permitted a reasonable amount of time to make up any work missed.
3. No major test, major class event, or major University activity will be scheduled on a major religious holy day.
4. Professors and University administrators shall not arbitrarily penalize students who are absent from academic or social activities because of religious observances.

ENROLLMENT CERTIFICATION

The Office of the Registrar is responsible for certification of students' enrollment. Certifications cannot be processed if the student has a financial liability. Enrollment certifications for a current semester can only be done after the drop/add period ends.

Enrollment certification can be obtained through the **MyFIU Self-Service portal** (**my.fiu.edu**) or in person at One Stop Enrollment Management & Services (SASC, 1st floor, Modesto A. Maidique Campus), BBC Enrollment Center (ACI-100, Biscayne Bay Campus).

Enrollment Status - Graduate:

Fall and Spring Semesters

Full time:	9 credits or more
Half time:	5 - 8 credits
Less than half time:	4 credits or fewer

Summer Semester

Full time:	6 credits

Note that audited credits do not count toward enrollment status.

Doctoral students who have reached candidacy or master's students who have completed all requirements except for the thesis, and have an approved thesis proposal on file in the University Graduate School, are considered full-time when registered for three credits per term.

Enrollment status is for continuous enrollment for the semester in which the student is in attendance. Reduction of course load may change the student's status.

FLORIDA RESIDENCY INFORMATION - FLORIDA STUDENT DEFINITION

Per Florida Statute 1009.21 and Florida Board of Governors Regulation 7.005, students shall be classified as residents or nonresidents for the purpose of assessing tuition in postsecondary educational programs offered by charter technical career centers or career centers operated by school districts, in Florida College System institutions, and in state universities.

To qualify as a Florida Resident for tuition purposes, the student or the parent/legal guardian of a dependent student, must:

1. Have established a legal residence in this State and have maintained that legal residence for 12 consecutive months immediately prior to the start of the term in which the student is seeking Florida resident classification. The student's residence in Florida must be a bona fide domiciliary rather than for the purpose of maintaining a mere temporary residence or abode, incident to enrollment in an institution of higher education, and should be demonstrated as indicated below (for dependent students as defined by IRS regulations, a parent or guardian must qualify).
2. Students claiming to be independent must meet one of the following:
   a) The student is 24 years of age or older by the first day of classes of the term for which residency status is sought; if student is under the age of 24, they must demonstrate earned income, through income tax forms, of a minimum of more than half of the cost of attendance for a student not living with parents in the prior year;
   b) The student is married;
   c) The student has children who receive more than half their support from the student;
   d) The student has other dependents who live with and receive more than half of their support from the student;
   e) The student is a Veteran of the United States Armed Forces or is currently serving on active duty in the United States Armed Forces for purposes other than training;
   f) Both of the student's parents are deceased or the student is or was (until age 18) a ward/dependent of the court;
   g) The student is working on a master's or doctoral degree during the term for which residency status is sought;
   h) The student is classified as an independent by the financial aid office at the institution.
3. Submit (or in the case of a dependent student, the parent must submit) written or electronic verification that includes two or more of the following documents (no single piece of evidence shall be conclusive). Please note that all residency documentation must be submitted by the first day of the semester for which Florida residency is being sought; late documentation will be considered for the following academic term.
   a) The documents must include at least one of the following:
      i. A Florida voter's registration card.
      ii. A Florida driver license.
      iii. A State of Florida Identification card.
      iv. A Florida vehicle registration.
      v. Proof of a permanent home in Florida which is occupied as a primary residency by the student or the student's parent.
      vi. Proof of a homestead exemption in Florida.
      vii. A dependent student who attended a Florida high school for a minimum of two (2) academic years immediately preceding the student's initial enrollment in an institution of higher education and graduated from a

Florida high school or earned a Florida General Education Development (GED) within the last twelve (12) months may use the high school transcript or GED certificate as evidence of Florida residency. The student must present at least one (1) additional document identified in sections 1009.21(3)(c)1. or 1009.21(3)(c)2., evidencing their parent's legal residency in Florida.

viii. Proof of permanent full-time employment in Florida (at least 30 hours per week for a 12-month period).

b) The documents may include one or more of the following:
   i. A declaration of domicile in Florida; if a declaration of domicile, pursuant to section 222.17, Florida Statutes, is being used as one of the documents to establish residency for tuition purposes, the date an applicant shall be deemed as establishing residency for tuition purposes shall be twelve (12) months hence from the date that the Clerk of Circuit Court notes the declaration was sworn and subscribed to the Clerk. Nothing in this subsection shall prevent the use of additional documentation as evidence that legal residency was established by other means pursuant to section 1009.21(3)(c), as of a date earlier than that established by the declaration of domicile.
   ii. A Florida professional or occupational license.
   iii. Florida incorporation.
   iv. A document evidencing family ties in Florida.
   v. Proof of membership in a Florida-based Charitable or professional organization.
   vi. Any other documentation that supports the student's request for resident status, including, but not limited to, utility bills and proof of 12 consecutive months of payments; a lease agreement and proof of 12 consecutive months of payments; or an official state, federal, or court document evidencing legal ties to Florida.

4. No contrary evidence establishing residency elsewhere.
5. Be a former student at a public institution of higher education who was properly classified as a resident who re-establishes domiciliary status and re-enrolls within a period of twelve (12) months.
6. A non-United States citizen may be eligible to establish residency for tuition purposes if evidence is presented verifying that the student has legal status in the United States, has met the residency requirements of section 1009.21, and the person is one of the following:
   a) A foreign national in a nonimmigrant visa classification that grants the person the legal ability to establish and maintain a bona fide domicile in the United States.
      i. The following visa categories grant the person the legal ability to establish and maintain a bona fide domicile in the United States: A, E, G, H-1B, H-1C, I, K, L, N, NATO 1-7, O-1, R, S, T, U, and V.
      ii. The following visa categories do not grant the person the legal ability to establish and maintain a bona fide domicile in the United States: B, C, D, F, H-2, H-3, M, P, Q, and TN. J visa holders are not eligible to establish residency for tuition purposes except as provided in section 1009.21(10).
   b) A permanent resident, parolee, asylee, Cuban-Haitian entrant, or other person granted an indefinite stay in the United States.
   c) Pursuant to section 1009.21(2)(d), a dependent student who is a U.S. citizen may not be denied classification as a resident for tuition purposes based solely upon the immigration status of the student's parent.

OUT-OF-STATE NON-RESIDENT-FOR-TUITION- PURPOSES RECLASSIFICATION TO IN-STATE RESIDENT FOR TUITION PURPOSES

To qualify as a resident for tuition purposes:
A student who is classified as a nonresident for tuition purposes may become eligible for reclassification as a resident for tuition purposes by presenting a minimum of three (3) documents identified in sections 1009.21(3)(c)1. or 1009.21(3)(c)2., that convincingly demonstrate the establishment of permanent legal residence in Florida other than for the sole purpose of pursuing a postsecondary education. Documentation must demonstrate that the student or, if the student is a dependent, their parent has maintained legal residence in Florida for at least twelve (12) consecutive months immediately prior to the first day of classes for the term for which residency reclassification is sought except as otherwise provided in section 1009.21(6). In addition, an affidavit/statement explaining your move to the state of Florida along with appropriate supporting documentation is required. For more information on the residency reclassification, please visit https://onestop.fiu.edu/.

To request reclassification of resident status:

a) If a person who is a dependent child and his or her parent move to this state while such child is a high school student and the child graduates from a high school in this state, the child may become eligible for reclassification as a resident for tuition purposes when the parent submits evidence that the parent qualifies for permanent residency.
b) If a person who is a dependent child and his or her parent move to this state after such child graduates from high school, the child may become eligible for reclassification as a resident for tuition purposes after the parent submits evidence that he or she has established legal residence in the state and has maintained legal residence in the state for at least 12 consecutive months.
c) A person who is classified as a nonresident for tuition purposes and who marries a legal resident of the state or marries a person who becomes a legal resident of the state may, upon becoming a

legal resident of the state, become eligible for reclassification as a resident for tuition purposes upon submitting evidence of his or her own legal residency in the state, evidence of his or her marriage to a person who is a legal resident of the state, and evidence of the spouse's legal residence in the state for at least 12 consecutive months immediately preceding the application for reclassification.

Appealing Your Residency Classification

In accordance with section 1009.21 of the Florida Statutes, Florida Board of Governors, and the Residency Guidelines adopted by the Articulation Coordinating Committee of the Florida Department of Education FIU has an established Florida Residency Appeal Committee. The Residency Appeal Committee provides a mechanism for students to appeal their out-of-state tuition decisions and strives to provide fairness and equity to all students. The Residency Appeal Committee's decision on behalf of the institution is final and may not be appealed further.

A student may appeal the denial of a request to be classified or reclassified from out-of-state to in-state status for tuition purposes only once. Students must submit the request in writing to **residency@fiu.edu** with accompanying documentation to support reconsideration of the original decision.

The committee meets once a month and will review the submitted appeal(s) and the accompanying documentation. The committee may request additional information from the student to make its decision**.** Not submitting supporting documentation will delay the review and the petition may be denied. After review, the committee will inform the student of the decision in writing.

Additional information regarding classification and reclassification of Florida Residency for tuition purposes may be found at **onestop.fiu.edu/student-records-myfiu/personal-records/declare-residency/**.

Please note: All College of Medicine appeals should be sent to comregistrar@fiu.edu.

VETERANS INFORMATION

The Office of Veteran and Military Affairs (VMA) assists all U.S. military service members, veterans, and their dependents. The VMA also provides personal counseling, tuition and fee deferments (in accordance with Florida Statute, Title XLVII, Chapter 1009.27), tutorial assistance, and VA work-study positions. The VMA Office is located in "the Tower" at the center of the Modesto A. Maidique Campus; and in WUC-257, Biscayne Bay Campus.

Students who intend to use VA educational benefits should contact the Office of Veteran and Military Affairs two months prior to the anticipated date of entry. Such time is required to expedite the processing of paperwork for educational allowances from the Veterans Administration.

Training Status	**Fall & Spring**
Rate of Pursuit	*(16-week Term)*
Full time	9 Credits
3/4 time	7 Credits
1/2 time	5 Credits

Summer and Dynamically Dated Courses Within a Semester

Training Status	**Summer C**
Rate of Pursuit	*(8-week term)*
Full time	6 Credits
3/4 time	5 Credits
1/2 time	3 Credits

Training Status	**Summer A/B**
Rate of Pursuit	*(6-week term)*
Full time	3 Credits
3/4 time	2 Credits

***Dynamic and Mini-Terms**

Full time 6 Credits

Note that audited credits do not count toward training status definitions.

Rate of Pursuit & VA Payments

For Rate of Pursuit clarification or questions regarding monthly stipends and payments from the VA, please contact the VMA office at (305)348-2838 or by emailing **Veterans@fiu.edu**. *Rate of pursuit determinations for graduate programs are set by the college and must be applicable to all students in the program. If no policy exists the Rate of Pursuit will align with the guidelines set forth by the University Registrar.

For additional information regarding other Veterans Educational Programs, or for specific information about your benefits and/or payments please contact the VA education Hotline at 1-888-442-4551.

COLLECTION AND USAGE OF SOCIAL SECURITY NUMBERS

In accordance with Florida Statute 119.071(5)(a)(2), the University collects social security numbers for the following reasons:

1. For use in processing admission applications for purposes of identification and verification of student records;
2. For use in administering federal and state programs/loans, including verification of eligibility. These programs include, but are not limited to:
   a. Financial aid and other related loan programs;
   b. Scholarship programs, including Bright Futures; and
   c. Veterans Administration benefits for qualified students
3. For use in complying with IRS Reporting Requirements pertaining to the Hope Scholarship Credit and the Lifetime Learning Credit provided under federal legislation;
4. For use in preparing Student Enrollment Reports required to be submitted to the National Student Loan Data System under Federal Law;
5. For use in providing official student transcripts to authorized third parties (i.e. educational institutions and employers upon receipt of required releases) for student identification purposes;
6. For submitting reports to the Florida Board of Governors as required.

Please note that this is only a listing of the collection and use of social security numbers by the University in the admissions, registration and financial aid areas. All

students are advised that social security numbers are confidential and may only be released in accordance with applicable law. For more information on the collection of social security numbers, visit the FIU Compliance and Integrity website at **https://compliance.fiu.edu/privacy/use-and-collection-of-social-security-numbers/**.

GENERAL INFORMATION

ACADEMIC AND STUDENT AFFAIRS

The Division of Academic and Student Affairs seeks to enhance the academic mission of the university by promoting a vast array of educational, social, and cultural opportunities and programs. We believe that a student's education takes place both inside and outside the classroom. We aim to provide an environment that supports the growth and development of our students by catering to their social, intellectual, emotional, and spiritual needs. From volunteer opportunities to multicultural programs, health promotion to residential life, the Division of Academic and Student Affairs is here to help students make the most of their university experience.

CAMPUS LIFE

Campus Life provides a variety of programs and services to students and the university community. Students' academic learning and success are enhanced through their active participation in the co-curricular opportunities offered in areas of leadership development, communication and organizational skills, service, event planning and evaluation techniques. Campus Life collaborates with other units to coordinate programs and events.

Campus Life includes the Student Union, Council for Student Organizations (at the Modesto A. Maidique campus), Student Organizations Council (at the Biscayne Bay campus), Student Programming Council, Homecoming Council, and Panther Power.

Offices are located on the Modesto A. Maidique Campus (Graham Center 240, [305] 348-2138) and on the Biscayne Bay Campus (Wolfe University Center 141, [305] 919-5804.

CAREER AND TALENT DEVELOPMENT

The centralized Career and Talent Development (CTD) office assists degree seeking students at all university locations with career readiness and graduate school educational opportunities. CTD also works closely with the specialized Career Services teams located in the College of Business and Chaplin School of Hospitality and Tourism Management. CTD's high-tech and high-touch philosophy offers specialized career readiness services while providing students with individualized attention through a drop-in program and one-on-one appointments.

CTD encourages students to register with the office immediately after enrolling in classes. The office can help students identify their majors, find internships, or identify the careers that are right for them. Get involved with Career and Talent Development. Programs and services include:

- *CAREER DEVELOPMENT AND MANAGEMENT* - This area offers career assessments, individual student coaching appointments, resume reviews and career development workshops in a variety of topics intended to assist students in identifying their next educational and/or career paths.
- CAREER FAIRS AND INTERNSHIP FAIR – CTD organizes and holds one major career and internship fair, as well as a number of other targeted career fairs and recruiting events throughout the year to connect students to employers.
- *INTERNSHIPS* – CTD also assists students in identifying and securing practical experience in their chosen majors. Internship opportunities can include academic credit, salary and field-related experience. Internships are proven to significantly increase the possibility of gaining employment upon graduation.
- *EMPLOYMENT UPON GRADUATION* - Students are encouraged to become fully registered with CTD at **fiu.joinhandshake.com/login**, which provides access to the Practice Interview Program, Resume Referral Service, and online job vacancies. Students also receive regular emails about networking opportunities and job fairs.

Location: CTD offices are located on the Modesto A. Maidique Campus (Student Academic Success Center 305, [305] 348-2423); the Engineering Center (EC 2852, [305] 348-1281); and the Biscayne Bay Campus (Wolfe University Center 255, [305] 919-5770).
CTD website: **career.fiu.edu**.
Career Management website: **fiu.joinhandshake.com/login**

CHILDREN'S CREATIVE LEARNING CENTER

Established in 1975, the Children's Creative Learning Center is an Educational Research Center for Child Development and an AdvancED-accredited Early Learning School. The center is located on the Modesto A. Maidique Campus and offers an educational preschool program for young children.

The essence of the program at the center is built around verbal communication, enhancing the children's ability to be in touch with their different feelings and to express those feelings verbally. Additionally, the center's objectives for each child include development of: self-concept and self-reliance, independent decision making, the ability to confront and resolve problems, respect and consideration for others, social skills and interpersonal relations.

Children ages of 2½ through 5 years who have achieved bathroom independence are eligible for programs housed in the Children's Creative Learning Center Main building. Children ages 2 to 2½ years who may be working toward achieving bathroom independence are eligible for the Center's Toddler program, housed in the Graham Center.

Center enrollment priority is given to children of FIU students. If you are interested in enrolling your child at the center, it is recommended to place your child on to the waiting list as soon as you are comfortable doing so.

For students seeking financial support for child-care, the center has been awarded the Child Care Access Means Parents in Schools (CCAMPIS) grant from the U.S. Department of Education. Additionally, the center participates in the Florida Voluntary Pre-Kindergarten (VPK) program for four-year-old children and Step Up For Students Kindergarten Scholarship, and is a School Readiness Provider.

Information about the center's programs, hours, and tuition can be found online at **studentaffairs.fiu.edu/campus-services/childrens-creative-learning-center/** or by calling the center office at (305) 348-2143.

CENTER FOR LEADERSHIP AND SERVICE

The Center for Leadership and Service (CLS) provides students with developmental and experiential opportunities that foster, action, and community engagement. Through leadership education, service-learning, civic engagement, service, and social innovation, students can become active citizens on-campus, in their respective communities, and globally. The vision of the CLS is to develop students for engagement in lifelong leading, service, and learning.

Leadership education is offered through co-curricular (non-credit) programs. Non-credit leadership development programs range from one-hour skill-building workshops, to semester-based programs (e.g., Academy of Leaders), to Program on Demand workshops. All of these programs are interactive and experiential in nature and are offered at a variety of times to accommodate our diverse student population. Programs are developmental in nature, so students can begin with an emerging leader program and progress to more advanced leadership training while at FIU. Consult the department web-site for program descriptions and application details, **leadserve.fiu.edu**.

CLS is also the central office for community service development, offering a clearinghouse and resource center for volunteer activities, academic service-learning, social innovation, and advocacy. CLS supports several community engagement projects throughout the academic year. Alternative Break (AB) educates students about social issues and encourages them to make a difference by participating in direct service projects in communities throughout the country and abroad. Roarthon is a student-run philanthropy dedicated to raising money for the Children's Miracle Network. Students can serve on the planning committee or participate as dancers in the overnight fundraiser that benefits the Nicklaus Children's Hospital Foundation. Relay for Life is the signature fundraising event for the American Cancer Society: a committee of FIU students organizes the 6-hour walk and thousands participate in the event to celebrate life and provide hope for those affected by this disease. By taking leadership roles in organizing and implementing these projects, students are able to practice and refine their leadership skills. Students may also take on leadership roles by providing peer education. The LEAD Team is a group of student facilitators that promotes and supports leadership development. The LEAD Team participates as program promoters and department ambassadors, group facilitators, classroom presenters, and consultants to student organizations.

The CLS is dedicated to developing the leadership capacity and cultivating active citizens for all FIU students. Offices are located on the Modesto A. Maidique Campus (Student Academic Success Center 230, [305] 348-6995) and the Biscayne Bay Campus (Wolfe University Center 353, [305] 919-5360).
Web-site: **leadserve.fiu.edu**.

COUNSELING AND PSYCHOLOGICAL SERVICES

As part of Student Health & Wellness, Counseling and Psychological Services (CAPS) provides a variety of services and resources designed to help currently registered FIU students achieve and maintain optimum mental health. Therapists, utilizing a brief therapy approach, assist students in developing effective coping skills and decision-making abilities; developing effective communication skills; and identifying and managing daily stressors. All therapeutic services are confidential and may be utilized either in person or online, depending on the type of service desired.

CAPS services include:

- Web-based, self-help educational and interactive training modules to assist with stress, emotional distress, development of effective coping skills, and more;
- Web-based screenings for anxiety, depression, eating disorders, mood swings, and trauma
- TAOConnect, a therapy-assisted online program for a wide range of existing conditions;
- Workshops that can help address anxiety, depression, and emotional and interpersonal distress;
- In-person consultations to assess for substance abuse and eating disorders/body image issues;
- Individual, group, and couples therapy for issues such as: anxiety, depression, stress, grief, and interpersonal and relationship problems;
- Psychiatric services (only available in conjunction with CAPS counseling);
- Teletherapy and telepsychiatry appointments;
- Crisis intervention;
- Biofeedback; and
- Educational and neuropsychological testing (additional fees apply).

For more information, visit us at **caps.fiu.edu**.

DISABILITY RESOURCE CENTER

Title II of the Americans with Disabilities Act (ADA) prohibits discrimination against persons with disabilities. As a publicly funded institution, FIU is required to ensure that students with disabilities are not barred from participation in a service, program, or activity based on their disability. To that end, the Disability Resource Center (DRC) facilitates reasonable accommodations made available so that students with disabilities have an equal opportunity to enjoy the full array of services, programs, and activities offered. The DRC relies on universal design principles and collaboration with our community of stakeholders comprised of students, faculty, staff, and administrators in creating diverse learning environments that are usable, equitable, inclusive, and sustainable.
Additionally, the DRC provides consultation and implementation of individualized accommodations for FIU students with disabilities on a case-by-case basis.
Some of the academic accommodations facilitated by the DRC include: test-taking accommodations such as extended time allotments, the provision of alternative formats for course materials, access to accessible software and adaptive technology equipment including an array of auxiliary aids and equipment loan out program. Other services provided by the DRC include speech-to-text captioning known as Computer Assisted Real Time transcription (CART), and the provision of American Sign Language Interpreter services.

For more information about the array of services offered by the DRC and how to set up a Welcome Appointment with an Access Consultant, visit the DRC website @ drc.fiu.edu.

If you identify as a student with a disability and have received accommodation in the past, have a current disability diagnosis, or complaint and are seeking services due to newly acquired disability and would like to pursue academic accommodations, please contact the DRC's MMC or BBC Office using the following information:
Email: DRC@fiu.edu
Modesto A. Maidique Campus: GC 190, (305) 348-3532; Biscayne Bay Campus: WUC 131, (305) 919-5345.

Class Attendance

If a qualified student with a disability believes it may not be possible to abide by the attendance policy due to disability-related reasons, the student should contact the DRC at the beginning of the semester, or as soon as possible after the need for an exception arise, to discuss the possibility of initiating that accommodation.

The DRC may determine that a student's disability entitles the student to an adaptation of the usual course attendance policy. Adaptations of course attendance policies will be determined on an individual, case-by-case basis. Adaptations of the course attendance policy does not mean that unlimited absences will be permitted. FIU DRC attempts to make every effort to accommodate students' disability-related academic needs. However, neither the university nor an individual faculty member is required to waive essential or fundamental academic requirements of a course regardless of the nature of a student's disability.

Regardless of the adaptation of the course attendance policy, the student is required to meet all academic course requirements and to complete all assignments and examinations. It is the student's responsibility to obtain the material and notes from missed classes. The student will be graded according to the criteria stated in the class syllabus.

Students should note that absences for non-disability related reasons will not be excused by the DRC and are only vetted through the professor of the course. When an attendance accommodation is determined to be reasonable, a DRC Access Consultant will work with the faculty to define the parameters of the accommodation. This does not mean students may miss class whenever they like.

If a student finds that he or she is not doing well in the class due to extended absences, the student is urged to consider options (e.g., dropping the class, withdrawing from the class, or taking an incomplete grade).

Testing and Exam Proctor Forms

Students with testing accommodations that will be testing with the DRC must work with professors at the beginning of each semester to complete an Exam Proctor form, as it provides the test proctor with information fundamental to the testing process (e.g., testing conditions, allotted time for tests, and the way in which tests are received at the DRC and delivered back to the professor).

In cases where professors do not have their test dates finalized by the first week of class, an Exam Proctor form must still be completed and submitted. Changes or additional exam dates must be provided by the professor to the DRC throughout the semester as long as it is provided a minimum of **one week before** the scheduled exam date. For more information or to view our forms, visit **drc.fiu.edu**.

Training

The DRC offers a variety of trainings and workshops throughout the semester, covering a range of topics including Service and Emotional Support Animals on campus, Disability Sensitivity, Universal Design, and accessibility even an interactive Breaking Barriers Escape Room. Trainings can be scheduled for small groups or one-on-one through **drc.fiu.edu**. You can also visit our website to view any pre-recorded online training at any time.

HEALTHY LIVING PROGRAM

The Healthy Living Program (HLP) focuses on developing Healthy Panthers for Life by educating students and helping them build their personal toolboxes to make healthier lifestyle choices. Students can explore the different dimensions of wellness through a combination of traditional health education and alternative therapies, such as massage, aromatherapy, and acupuncture. Recognizing that everyone is an individual, HLP consultations on topics (e.g., stress management, sleep hygiene) help students develop personalized plans to reach their goals. HLP programming and events provide students with interactive ways to learn about topics relevant to personal and academic success. For more information about all the services offered on campus that assist with personal well-being, visit shw.fiu.edu
HPL is located on the Modesto A. Maidique Campus (Student Health Center 180, [305] 348-4020) and the Biscayne Bay Campus (Student Health Building, [305] 919-5307).

HEALTH COMPLIANCE

As part of Student Health and Wellness, Health Compliance (HC) assists students in navigating through the registration process by educating and assisting them with the pre-matriculation health requirements (e.g., mandatory immunizations, health insurance for international students) put forth by the Florida Board of Governors. For more information about HC please our website at **https://go.fiu.edu/healthcompliance**.

Offices are located at the Student Academic Success Center on the Modesto A. Maidique Campus (120, [305] 348-2688).

HUMAN RESOURCES

The Division of Human Resources provides human resource management services for all faculty and staff in academic and administrative areas including student employees, research and graduate assistants, college work study and temporary employees on all campuses. The division comprises the following areas: Human Resources (HR) Administration, Talent Acquisition and Management, Compensation and Benefits Administration, Employee and Labor Relations, Payroll, Employee Records, HR Management Systems, Employee Assistance Programs, Human Resources Relations, and Human Resources (Herbert Wertheim College of

Medicine). It is through this office that new employees participate in the New Employee Experience to gain knowledge of FIU's past, present, and future for their individual career success and institutional impact. Additionally, this office partners with the Office of Academic Affairs to host an annual orientation for new faculty. On-campus jobs are provided for students, offering work experience and skill development. Five levels, ranging from entry level to apprenticeship are coordinated through FIU Career Ready. Additionally, full-time entry-level positions are available for recent graduates, supported by the student and alumni employment team.

Offices are located on the Modesto A. Maidique Campus (Primera Casa 224, [305] 348-2181) and the Biscayne Bay Campus (Hubert Library 322, [305] 919-5545). For additional information, visit the Division of Human Resources website at: **hr.fiu.edu**.

INDIVIDUALS WITH DISABILITIES

FIU is required by Title II of the American Disabilities Act (ADA) and Section 504 to make all programs, activities, and services equally available to persons with disabilities. The Office of Civil Rights Compliance and Accessibility Office (ORCA), administers FIU's accommodation program for employees with disabilities. Students seeking accommodations must register with the Disability Resource Center (DRC) at **drc@fiu.edu** **or by contacting:**
The Disability Resource Center offices located on Modesto A. Maidique Campus: (Graham Center 190, [305)] 348-3532); and on the Biscayne Bay Campus: (Wolfe University Center 131, [305)] 919-5345).
FIU is required to provide students with appropriate academic adjustments and auxiliary aids and services that are necessary to afford an individual with a disability an equal opportunity to participate in the school's programs. The university is not required to make adjustments or provide aids or services that would result in a fundamental alteration of a program or impose an undue burden.

Filing a Complaint: It is the policy and practice of FIU to comply fully with the requirements of the Americans with Disabilities Act of 1990 (ADA), Section 504 of the Rehabilitation Act and all other federal and state laws and regulations prohibiting discrimination on the basis of disability. Complaints of disability discrimination, harassment, or retaliation must be filed within 120 calendar days of the incident(s). ORCA is responsible for investigating discrimination and/or harassment complaints/allegations.

If you wish to learn more about your ADA rights, the university's policies against discrimination, and the process for filing a formal complaint, contact the ORCA located on Modesto A. Maidique Campus, Primera Casa 321, (305) 348-2785 or on the website online at: dei.fiu.edu/connect/disability-and-accessibility/.

INTERCOLLEGIATE ATHLETICS

FIU Athletics has seen tremendous growth since its inception more than 40 years ago. FIU is a member of the National Collegiate Athletic Association (NCAA) and entering the fifth year in Conference USA for 17 men's and women's athletic programs. Conference USA currently does not sponsor a championship in the new sport of beach volleyball. FIU continues to elevate the athletics program and has won 14 Conference USA Championships between 2015 and 2022, including eight-time repeat championships won by the women's Swimming and Diving team. Sports programs and services in Intercollegiate Athletics provide an opportunities for student athletes to develop their athletic skills and leadership abilities in an educational setting. Much emphasis is placed on the student as a student athlete to ensure intellectual, emotional, and social well-being.

Athletics Team Membership

Several FIU Athletic teams have won conference championships in recent seasons (including women's swimming and diving, men's soccer and tennis), while many other student athletes have garnered accolades across the sport programs. FIU's intercollegiate sports programs for women include basketball, volleyball, soccer, golf, tennis, track, softball, cross-country, swimming and diving, and beach volleyball. Men's sports include basketball, football, soccer, baseball, track, and cross-country.

Athletic Facilities

The Athletic Department utilizes eight facilities that serve as the sites for athletic, educational, and recreational activities.

Ricardo Silva Stadium opened in fall 2008. The stadium features more than 20,000 permanent seats; 1,400 club seats; an upper concourse and 19 full-service luxury suites. In addition to the suites, the stadium features a 6,500 square-foot. **Stadium Club**, which is a multipurpose banquet hall that can be used for various events. The stadium is the home of our intercollegiate football program.

Located in the west end zone bleachers of Ricardo Silva Stadium is the R. Kirk Landon Field House. The **R. Kirk Landon Field House** is a 55,000 square-foot facility that houses the FIU intercollegiate football team, coaches, and weight training facility and ticket office staff. The **University Credit Union Box Office** is located at the west entrance to the field house and services all FIU sports. It also houses a 12,500 square-foot weight room that accommodates all FIU intercollegiate student athletes.

The **OCEAN BANK CONVOCATION CENTER (OBCC)** is home to our intercollegiate men's and women's basketball teams, as well as our women's volleyball team. It is a multipurpose facility with a seating capacity for 5,150 and is the venue for our convocation and graduation ceremonies. The main floor can hold four volleyball courts and two basketball courts. The two auxiliary gyms can each hold one basketball court or a volleyball court. Also housed in the OBCC are seven classrooms and eight locker rooms. In 2017, new upper-level seating was installed.

The **Baseball Stadium** is home to our intercollegiate baseball team. The stadium has a seating capacity of 2,200 and offers two luxury suites with capacity for 20 and 25, respectively; both suites overlook the field. The Baseball Stadium also houses indoor batting cages (located just outside the left-field fence). In 2017, a new Musco lighting system was installed. In 2018, the locker room and team lounge were renovated.

The **FIU Soccer Stadium** is the home of our intercollegiate men's and women's soccer programs. This

lighted soccer stadium seats 1,500; dimensions of the field span 120 yards in length by 70 yards in width.

The **FIU Tennis Center** has 6 lighted courts and is home to the women's tennis program.

The **FIU Softball Stadium** houses our intercollegiate softball program. Alongside first base is the building which opened in 2018 with a locker room, coaches offices, and team lounge for the student athletes The elevated grandstands and press box, completed in 2014, seats 500. Adjacent to the Felsberg Field are covered batting cages and three bullpen areas.

The **FIU Beach Volleyball Courts** were completed in 2012 and are home to our nationally ranked beach volleyball program.

All FIU students are admitted to all regular season intercollegiate athletic home games free of charge. Presentation of a valid university identification card is required.

For additional information visit **fiusports.com** or call the University Credit Union Box office at 348-4263 (**FIU-GAME**).

Student Athlete Academic Center

Under the leadership of Division of Academic and Student Affairs, the Student Athlete Academic Center provides a range of academic support services for student athletes—including advising, tutoring, and monitoring of academic progress. The Student Athlete Academic Center is located west of the Ocean Bank Convocation Center on the Modesto A. Maidique Campus, with hours of operation to meet the needs of student athletes. The Student Athlete Academic Center is equipped with computer laboratories, study carrels, and classrooms. It is staffed with advisors, tutors, and learning specialists. The unit works university academic departments and other units to ensure the academic support and success of student athletes. For information call (305) 348-6412.

INTERNATIONAL STUDENT AND SCHOLAR SERVICES

The International Student and Scholar Services (ISSS) office provides comprehensive assistance to international students, faculty, and researchers in non-immigrant status (F or J visas). The ISSS staff provides advising services on immigration, cultural, personal, social, and financial concerns on both the Modesto A. Maidique Campus and Biscayne Bay Campus.

The ISSS team ensures institutional compliance with the federal agency requirements of the Department of Homeland Security for reporting and tracking our international students.

In addition, the department also serves as a liaison to academic and administrative departments throughout the university.

All new and/or international transfer students MUST attend a MANDATORY welcome session before the start of their first semester and MUST complete a virtual immigration check-in process within the first week of the start of classes. The ISSS office also offers social and cultural programs to assist students in adapting more effectively to the university community and their new lives in the United States. An active International Student Club on each campus collaborates with the ISSS department in organizing various social activities. Club programs enable students to participate in the international dimension of the university and provide opportunities for involvement in the greater Miami community.

ISSS has offices on the Modesto A. Maidique Campus (Student Academic Success Center 230, [305] 348-2421) and on the Biscayne Bay Campus (Wolfe University Center 363 [305] 919-5813).

For additional information, visit: **globalaffairs.fiu.edu/isss/**.

OFFICE OF EDUCATION ABROAD

The Office of Education Abroad provides students with numerous opportunities to earn academic credit while traveling outside of the United States either led by a faculty member via the FIU Faculty-Led Study Abroad programs, or independently via the International Student Exchange program (ISE) or direct enrollment. Duration varies from a few weeks to a semester or even an academic year abroad. In order to participate in any study abroad program, graduate students must have a grade point average (GPA) above a 3.0 (i.e., must be in good academic standing) and be in good conduct standing.

Students participating in the ISE program will pay FIU tuition and fees and, with pre-approval from their respective departments, will receive transfer credit for the courses taken abroad. Grades earned on the ISE programs will not be averaged into the FIU GPA.

FIU Faculty-Led Study Abroad programs are typically offered during the summer, although some programs are offered during the fall, spring and winter session terms. The programs are designed and led by FIU faculty. Students participating in these programs will pay in-state FIU tuition and fees, in addition to a program fee for the cost of the program abroad. Grades earned on these programs will be averaged into the FIU GPA, as these are FIU credit-bearing courses.

The Office of Education Abroad also assists students in preparing for an academic credit-bearing internship or research abroad, as well as obtaining transfer credit for direct enrollment at accredited foreign institutions and participation in programs through study abroad program providers. In these cases, students may have to pay that entity directly, and with pre-approval from their advisors, receive transfer credit for the courses taken. Grades earned on transfer credit programs are not averaged into the FIU GPA.

Virtual opportunities are also available, including Virtual Study Abroad (VSA), virtual ISE, and virtual international internships. VSA courses are FIU courses infused with virtual international elements, so grades earned in these courses will be averaged into the FIU GPA.

For more information about studying abroad, please contact the Office of Education Abroad, located on the Modesto A. Maidique Campus (Student Academic Success Center 230, [305] 348-1913), visit **studyabroad.fiu.edu**, or email us at **edabroad@fiu.edu**.

MULTIFAITH COUNCIL

The Multifaith Council serves student groups involved in a variety of activities. Professional representatives from various faiths are available for personal appointments. Individual denominations sponsor campus-wide programs including worship, study groups, social gatherings, and

cultural events. Campus Ministry sponsors programs and activities that are non-denominational.
Location: Graham Center 318, Modesto A. Maidique Campus, (305) 348-3902; Biscayne Bay Campus, (305) 919-5247.

DIVERSITY, EQUITY AND INCLUSION (DEI)

FIU is committed to providing the highest-quality educational and employment experience to its students, faculty, and staff in a nurturing and supportive environment. In doing so, the institution is committed to ensuring that instruction and services are delivered in a manner that is reflective and supportive of diversity as it relates to gender, socioeconomic status, gender identity, race, ethnicity, physical and mental ability, nationality, military status, sexual orientation, spirituality, and cultural identity. We are committed to ensuring our faculty and staff reflect the diversity of our local community and our student body. We commit to engage in an ongoing and thoughtful dialogue about the changing realities of our increasingly interconnected world. Our Division of Diversity, Equity, and Inclusion is responsible for the development, implementation, and monitoring of diversity, equity, inclusion, and affirmative action programs, policies, and procedures to ensure equal employment without regard to age, color, disability, marital status, national or ethnic origin, political affiliation, race, religion, sex (including pregnancy), veteran status, sexual orientation, or gender identity or expression. This is accomplished by various programs, goals, and initiatives:

- The University's Affirmative Action Plan for Women and Minorities, and for Individuals with Disabilities and Veterans and the Florida Equity Accountability plan;
- Diversity initiatives;
- External partnerships;
- Minority scholarships;
- Position vacancy announcements/hiring recruitment; and
- Training.

The office is located on the Modesto A. Maidique Campus (Primera Casa 220, [305] 348-6088). For additional information, visit the Division of Diversity, Equity, and Inclusion website at **dei.fiu.edu**.

Within the Division of Diversity, Equity, and Inclusion is our Office of Civil Rights Compliance and Accessibility (OCRCA). FIU promotes a culturally diverse and inclusive working and learning environment where current and prospective faculty, staff, and students are treated fairly and valued for their individuality. OCRCA is responsible for:

- Compliance with the ADA;
- Compliance with Titles VI, VII, and IX; and
- Internal and external investigations.

If any applicant, employee, or student has a good faith belief that they have been discriminated against or harassed based on age, color, disability, gender, marital status, ethnic/national origin, race, religion, retaliation, sexual harassment, or any other protected category, (OCRCA) encourages that person to complete the Discrimination Complaint Processing Form and submit it to our office on the Modesto A. Maidique Campus (Primera Casa 220). OCRCA will investigate the complaint in accordance with university policy and procedures.

The office is located on the Modesto A. Maidique Campus (Primera Casa 220, [305] 348-2785). For additional information, visit **hr.fiu.edu/employees-affiliates/employee-concerns/**.

OFFICE OF THE OMBUDSPERSON

The Ombudsperson office acts as an impartial and confidential forum to assist students who have encountered problems or conflicts at the university, particularly problems or concerns not adequately addressed through normal channels. This may include correcting processes or procedures that hinder resolving the issue or are causing an inordinate delay. The ombudsperson may resolve problems through various methods, including making inquiries to the appropriate university department for review. The ombudsperson should be utilized in situations where all areas of appeal have been exhausted or proven unsuccessful.
The Office of the Ombudsperson is located on the Modesto A. Maidique Campus (Graham Center 219, [305]) 348-2797). Email: **ombuds@fiu.edu.**

OFFICE OF SOCIAL JUSTICE AND INCLUSION

The Office of Social Justice and Inclusion aims to celebrate diversity and promote inclusion by creating a campus community that encourages social responsibility, honors equality, and fosters student success.

The office offers a wide variety of university and community-wide signature events and programs, including a month-long Martin Luther King, Jr. Commemorative Celebration; mentorship programs (i.e., LGBTQA, Male Mentoring Initiative); Women's Center programming; a Social Justice Badge program; the Lavender Graduation ceremony; Excellence Awards program; Strengths Summit; Social Justice Summit; and Pride Center Month activities. In addition, the Office of Social Justice and Inclusion offers and monitors the following scholarships (fiu.academicworks.com): Social Justice and Inclusion Scholars, Golden Drum, MLK Essay Awards, and the Out and Proud.
Offices are located on the Modesto A. Maidique Campus (Graham Center 216, [305] 348-2436) and on the Biscayne Bay Campus (Wolfe University Center, [305] 919-5817). Website: **osji.fiu.edu**.

Social Justice Badge Program—One way to create positive climate change is to educate and activate individuals to be the difference in their communities. The Social Justice Badge Program enables students to develop self, group and societal values which lead to a commitment of change. Through a series of workshops, discussions, and events, the Office of Social Justice and Inclusion engages the FIU student body to critically think and act on social juice issues that are affecting them locally, nationally, and globally.

Pride Center Initiatives—The mission of the Pride Center initiatives is to meet the needs of the LGBTQA student population by developing and implementing educational, social, and resource programs and services.

These initiatives are aimed at reducing homophobia and heterosexism on both campuses through education, advocacy, and awareness, and by assisting our LGBTQA students in reaching their full potential.

Male Mentoring Initiative—The goal of the Male Mentoring Initiative is to empower our students and foster personal and professional maturity through mentoring and meaningful interactions. We provide various services that address the many needs of our male student population while reaffirming masculinity in a positive way. The Male Mentoring Initiative is open to all FIU students.

SEXUAL AND UNLAWFUL HARASSMENT POLICY

Florida International University is committed to a study and work environment free from discrimination and harassment based on race, color, pregnancy, religion, age, disability, national origin, marital status, veteran status, and sex, which encompasses gender, gender expression, gender identity, and sexual orientation. University Regulations 105 (Sexual Harassment (Title IX) and Sexual Misconduct) and 106 (Nondiscrimination, Harassment and Retaliation (Title VII)) prohibit discrimination and harassment based on these protected categories. It is a violation of these Regulations for any member of the University community to discriminate against or harass any member of the University community or applicant. These Regulations set forth procedures for an applicant or University Community member (i.e., students, student organizations, faculty, staff, affiliated third parties, and visitors) to file a complaint of alleged discrimination and harassment. University Regulation 105 prohibits discrimination and harassment based on sex, which includes Sexual Misconduct, Sexual Harassment, Gender-Based Harassment, Domestic Violence, Dating Violence, Stalking, Non-Consensual Sexual Touching, Obscene or Indecent Behavior, Sexual Coercion, Sexual Exploitation, and Sexual Exploitation.

FIU takes all forms of discrimination, harassment, and sexual misconduct seriously. To oversee the administration of these Regulations, FIU has designated Ryan Kelley, Director of the Office of Civil Rights Compliance and Accessibility (CRCA), as the University's Title IX coordinator. FIU has designated Michelle Horvath, Assistant Dean of Students, Student Conduct and Academic Integrity, Heidi Louisy, Interim Director, Employee & Labor Relations (ELR), and Kevin Kendrick, Senior Associate Athletic Director, University Compliance, the University's Deputy Title IX Coordinators.

Reporting Harassment:

Students, faculty, staff, visitors, independent contractors, and other individuals engaged in university activities are encouraged to report any conduct which they in good faith believe constitutes discrimination, harassment, or sexual misconduct in violation of these Regulations. All FIU employees, including students employed as graduate teaching or research assistants, by the Athletic Department, or by Housing and Residential Life, are considered responsible employees. A responsible employee must report incidents of sexual harassment or sexual misconduct set forth in Regulation 105.

Reports of discrimination, harassment, and sexual misconduct should be made to the Title IX coordinator and Office of Civil Rights Compliance and Accessibility. If you have concerns or need to report an incident of discrimination, harassment, and sexual misconduct, please contact Ryan M. Kelley, Title IX Coordinator, Office of Civil Rights Compliance and Accessibility at (305) 348-2785, ocrca@fiu.edu, or file a report at report.fiu.edu.

Retaliation Is Prohibited:

Adverse action taken against an individual who in good faith makes a report or complaint, testifies, assisted, or participated or refused to participate in an investigation, is strictly prohibited.

Confidentiality:

FIU will keep information and actions taken in accordance with this Regulation confidential to the extent possible under the law. The University will only disclose information to individuals with a legitimate need to know in order to review, investigate, and resolve reports of discrimination, harassment, and sexual misconduct, or as permitted or required by law.

Any employee, applicant, or student who believes that they may be a victim of discrimination, harassment, or sexual misconduct is encouraged to file a complaint with the Office of Civil Rights Compliance and Accessibility, located on the Modesto A. Maidique Campus, Primera Casa 220, (305) 348-2785 or report.fiu.edu

STUDENT ACCESS AND SUCCESS

The Office of Student Access and Success is committed to improving students' learning and achievement by providing engaged academic experiences through meaningful programming and services that facilitate successful transitions between pre-collegiate, undergraduate, and graduate education. The department develops partnerships with community and local educational agencies and corporations to support the academic success of students from underrepresented and special student populations.

Offices are located on the Modesto A. Maidique Campus (Student Academic Success Center 205, [305] 348-3445) and on the Biscayne Bay Campus (Academic One 394, [305] 919-4223.

Pre-Collegiate Programs

Our pre-collegiate programs provide academic enrichment, career planning, financial aid guidance, and scholarship opportunities to promising underrepresented students at the middle- and high-school levels. The programs also expose students to the university environment through residential and non-residential programs and assist in facilitating the transition to college. In partnership with Miami-Dade County Public Schools, the following programs are offered at FIU: College Reach Out, Educational Talent Search, Partners in Progress, the National Achievers Society (FEF South Florida Center of Excellence), and Upward Bound.

Student Support Services

Student Support Services is a federal TRiO program funded by the U.S. Department of Education. The program provides opportunities for academic development and assistance with basic college requirements, motivating students toward the successful completion of their bachelor's degree. The goal of Student Support Services is to increase the college retention and graduation rates of its participants who come from low-income backgrounds,

are first-generation college students and/or individuals with disabilities.

College Access Programs
College Access Programs are designed as pathways for undergraduate education. These programs provide college access to students from historically under-represented groups and special populations. The Office of Student Access and Success connects students with services and tools such as tutoring, career planning, success coaching, professional development workshops, and goal-setting to help them succeed academically, maintain financial aid eligibility, and graduate on time. Current access pathways exist with the following community partners: 5000 Role Models of Excellence Project, Big Brothers Big Sisters, Breakthrough Miami, Educate Tomorrow, HANDY, and Take Stock in Children.

Fostering Panther Pride
Fostering Panther Pride offers tailored academic and support services to students identified as formerly in foster care or those experiencing housing insecurity. The primary goal of Fostering Panther Pride is to assist these students in their transition to FIU, their retention and graduation, and their pursuit of employment or graduate studies upon receiving their bachelor's degree.

Golden Scholars Bridge Program
The Golden Scholars bridge program is an alternative admissions program for under-represented students. Priority is given to first-generation college students who are eligible for Pell grants. Students selected to be Golden Scholars participate in an intensive six-week residential summer bridge program that offers academic enrichment, individualized coaching, and mentoring from faculty and staff. Upon successful completion of the bridge program, students matriculate into the fall term as fully admitted FIU students.

Ronald E. McNair Post Baccalaureate Achievement Program
The TRiO McNair Scholars program is a federally funded project. The purpose of the program is to assist low-income, first-generation college, and/or under-represented minority college students in making the transition from their undergraduate to doctoral studies. Participants have the opportunity to conduct scholarly research under the supervision of a faculty mentor from the sciences, technology, engineering, mathematics, and/or psychology disciplines.

STUDENT HEALTH CLINICS

Good health is essential to students' success while at the university and throughout their life. Therefore, Student Health Clinic (SHC) is committed to providing registered students with free or low-cost quality medical care, which will allow them to thrive both academically and personally. Our healthcare centers are located at both the Biscayne Bay and Modesto A. Maidique campuses to serve our students. The care offered has a strong focus on education.

Clinical Services include:
- Dermatology
- Sexual health & gynecology
- Behavioral health/psychiatry
- Care for common illness and injuries
- Consultations
- Pre-matriculation and preventive vaccines
- Preventive screenings, and laboratory testing (blood work, urine test, and cultures
- After hours, holiday, and weekend nurse answer line. For services offered on the Modesto A. Maidique Campus, call (305) 348-2401, and select option 2; for services offered on the Biscayne Bay Campus, call (305) 919-5620, and select option 2.
- Pre-packaged medications are dispensed by practitioners at the BBC locations.

Other services
- Assist students with obtaining university-sponsored student health insurance plans to help offset the cost of services not covered under the health fee.

For more information about us and a complete list of services, visit our website at **studenthealth.fiu.edu.**

Clinics are located inside the Student Health Center, near the Wellness & Recreation Center, on the Modesto A. Maidique Campus (Student Health Center 110 and 154, [305] 348- 8385) and on the Biscayne Bay Campus near parking lot 1-C (Student Health Services building; 305-919-5620).

STUDENT CONDUCT AND ACADEMIC INTEGRITY

Under the umbrella of Student Health & Wellness, the Office of Student Conduct and Academic Integrity (SCAI) serves the FIU community by working to protect the intellectual exchange of ideas, knowledge, and experience by preserving the safe and stimulating environment of FIU in which scholarship and personal growth may occur. Such protection occurs through educating community members about the rights and responsibilities enshrined in the Student Conduct and Honor Code (Code) and investigating and adjudicating such matters referred to SCAI under the Code. Through the student conduct process, the University holds students and student organizations accountable for their behavioral choices in a fair and developmental manner.
SCAI also:
- Selects and trains the members of the Student Conduct Committee;
- Provides educational programs for the community;
- Provides referrals to support resources to community members;
- Provides student conduct record background checks for various agencies e.g. federal agencies, Graduate Schools, Florida Bar Examiners; and,
- Manages the admissions clearance process.

Please refer to the Code regarding the student conduct and academic integrity processes and procedures, as well as the rights and responsibilities of each FIU student. To report a possible violation of the Code, visit the SCAI website at **conduct.fiu.edu** or **report.fiu.edu**. SCAI is located in GC 311 at the Modesto A. Maidique Campus, (305) 348-3939.

STUDENT COMPLAINTS

FIU supports the rights of students to file complaints and grievances, and appeal judicial outcomes and other university decisions concerning students in an environment free of fear, retaliation, or other adverse consequences.

Students can request to meet with the student ombudsperson to discuss concerns and/or complaints. The ombudsperson provides a forum for students to discuss and identify options to resolve student issues. Students may contact the ombudsperson at **ombuds@fiu.edu**. More information is available at **ombuds.fiu.edu**.

The **Student Handbook** directs students to procedures for filing student grievances on academic and non-academic matters, for appealing student misconduct charges, and for lodging specific complaints, including discrimination or harassment, and appealing those decisions. Information on the academic grievance policy and procedures can also be found on the Academic and Student Affairs website.

Complaint Procedures to Oversight Agencies

Procedures are available to allow students to file complaints with the Board of Governors (BOG) State University System of Florida, as well as the institutional accrediting agency, the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).

The Florida BOG has grievance procedures in place for students seeking to file a complaint. However, students are encouraged to resolve university concerns by contacting the campus office responsible for the area relevant to the complaint. Further, if dissatisfied with the response, the student may contact the relevant area supervisor, director, department chair, or dean at FIU for resolution.

There are a number of venues for making a complaint to the BOG. The **BOG website** provides information regarding filing a complaint.

The Southern Association of Colleges and Schools Commission on Colleges complaint procedure states: "SACSCOC expects individuals to attempt to resolve the issues through all means available to the complaint, including following the institution's own published grievance procedures before submitting a complaint to SACSCOC". The SACSCOC website provides information for filing a SACSCOC complaint: SACSCOC Website

STUDENT FOOD PANTRY

The Student Food Pantries are available to all currently enrolled students located at both the Modesto A. Maidique Campus and the Biscayne Bay Campus. The purpose of the pantries is to serve FIU students in need. No proof of need is required. Students can access the pantry of their choice weekly, taking up to 10 pounds of food each week. Both pantries are overseen by the Center for Leadership and Service. Food donations are supported by students, staff, faculty, student organizations, and community members of the community. Pantries are located on the Modesto A. Maidique Campus (Graham Center 319, [305] 348-3204) and the Biscayne Bay Campus (Wolfe University Center 256, [305] 919-5360). For more information please visit **go.fiu.edu/studentfoodpantry**.

STUDENT MEDIA

Student media at FIU include PantherNow.com/print, and WRGP The Roar radio.

PantherNow.com/Print is an editorially independent publication produced by students and distributed at no cost. PantherNow keeps the university community informed about campus news, events, and activities; serves as a forum for opinion and commentary concerning campus-related topics; and protects the interests of the university community and its component parts. Students can work on the staff in news and features, photography, and/or advertising. No prior experience is required.

The Roar is FIU's radio station located at 88.1, 95.3 (for Modesto A. Maidique Campus), and 96.9 (for Biscayne Bay Campus) FM. The station operates 24 hours, seven days a week. The station provides a means for students to acquire experience in various disciplines related to the broadcast industry, including hands-on experience in a realistic, business-like setting encompassing teamwork and professional standards.

UNIVERSITY CENTERS

The University Center on each campus provides vital services to students and the university community. The Graham University Center (GC) on the Modesto A. Maidique Campus, and the Wolfe University Center (WUC) on the Biscayne Bay Campus, are the focal points for the university community to interact in an educational and vibrant environment. GC and WUC are considered the hub of university life. The centers' staff coordinate scheduling of space and assists with the production of student and university-sponsored events.

Graham Center

In the Graham Center (GC), one will find academic classrooms, event spaces, retail stores, food venues and offices offering various student support services. These student support services include: Office of the Senior Vice President for Academic and Student Affairs, Ombudsperson Office, Dean of Students, Student Life and Development, Center for Leadership and Service, Disability Resource Center, Multi-Faith Council, Office of Social Justice and Inclusion, Orientation and Parent Programs, Women's Center, Student Conduct and Academic Integrity, Upward Bound and Pre-College Programs, and Student Health & Wellness. Students with an interest in journalism, broadcasting and mass communication will find opportunities at PantherNOW, the student newspaper, and at The Roar, the student radio station.

The Graham Center provides the university community with the following amenities: event planning, audiovisual/multi-media support, a state-of-the-art computer lab, eSports Lounge, lost and found, student study spaces, ATMs, locker rentals, notary public service, and vending machines. GC also offers event facilities including meeting rooms, ballrooms, auditoriums, multipurpose event spaces, outdoor programming space, and the GC Pit. The 23-classroom wing, located on the second floor, has a large lounge ideal for individual study and group work. The university community can enjoy entertainment and the arts by visiting the Student Art Gallery and Piano Lounge, and the Game Room.

While in GC, you can enjoy a variety of food locations: The 8thStreet Campus Kitchen serves breakfast, lunch, and dinner in an all-you-care-to-eat style. Other offerings include, the Faculty Club, Recharge-U convenience store, Jamba Juice, Pollo Tropical, Subway, Panera Bread, Pincho Factory, Almazar, Sushi Maki, Bustelo Café, La Ventanita, Cabana a Caribbean Café, and Sergio's Cuban Café & Grill. Other retail venues include the Barnes and Noble Bookstore (with a café serving Starbucks coffee), Wayki's Hair and Beauty Salon, Golden Touch Barbershop, Panther TECH store, and Ricoh Copy, Print, Pack & Ship Center.Administrative offices are located in GC-1210. Website: grahamcenter.fiu.edu. Phone number: (305) 348-2297.

Wolfe University Center

In the Wolfe University Center (WUC), you will find event spaces, retail stores, food venues and offices offering various student support services. These student support services include: Student Life and Development, Center for Leadership and Service, Disability Resource Center, Office of Social Justice and Inclusion, Orientation and Parent Programs, Women's Center, Career and Talent Development, International Student and Scholar Services, and Counseling and Psychological Services.

The Wolfe Center provides the university community with the following amenities: event planning, audiovisual/multi-media support, a state-of-the-art computer lab/collaboration lounge, lost and found, student study spaces, and vending machines. WUC also offers event facilities, including the Mary Ann Wolfe Theater, meeting rooms, ballrooms, multipurpose event spaces, outdoor programming space, and Panther Square.

While in the WUC, one can enjoy a multipurpose dining and catering facility, the Wellness and Recreation Center, and study lounges. Other retail venues include the Barnes and Noble Bookstore, the FIU One Card Office/Wells Fargo, and Ricoh Copy, Print, Pack & Ship Center. Administrative Offices are located in WUC 325. Website: wuc.fiu.edu. Phone number: (305) 919-5800.

UNIVERSITY POLICE DEPARTMENT

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (Clery Act) All postsecondary institutions, both public and private, that participate in federal Title IV student aid programs are required to comply with the *Clery Act* regulations. Although *Clery Act* compliance is an institutional responsibility, full compliance is a campus-wide effort, and concerns all members of the community. Policy statements must be developed and crime reports must be collected from a wide variety of campus security authorities.

These authorities include police, non–police security staff responsible for monitoring campus property, individuals and offices to which crimes should be reported, and officials of the university with significant responsibility for student and campus activities.

- The University Police Department publishes an Annual Campus Security and Fire Safety Report every year by October 1 containing three years of campus crime statistics and specific campus security information including university policy statements.
- Crime statistics for the FIU campuses, areas immediately adjacent to the campus, certain non-campus facilities, and other remote university properties are disclosed. The statistics must be gathered from police or security, local law enforcement, and other university officials (i.e., deans, directors, department heads) who have significant responsibility for student and campus activities. The crime statistics may be found on the University Police website listed below.
- Timely Warning: The Clery Act requires the institution to alert the campus community to certain crimes in a manner that is timely and will aid in the prevention of similar crimes. The intent of a warning regarding a criminal incident(s) is to enable people to protect themselves. This means that a warning should be issued as soon as pertinent information is available. The warning will contain information about the type of criminal incident that has occurred, although the institution can provide additional information as it becomes available.
- Emergency Notification: Under the Clery Act, every institution is required to immediately notify the campus community upon confirmation of a significant emergency or dangerous situation occurring on the campus that involves an immediate threat to the health or safety of students or employees. An "immediate" threat as used here includes an imminent or impending threat. The notifications may be sent via email, text, and the university telephone system
- The University Police Department is responsible for preparing and distributing the Annual Security and Fire Safety Report. The University Police Department works with local police departments and all university departments to compile the information contained in the annual report.

The University Police Department encourages the FIU community to review the Annual Security and Fire Safety Report as a guide for safe practices on and off campus.

You may obtain a digital copy on the University Police website (**police.fiu.edu**).

WELLNESS AND RECREATION CENTERS

The Wellness and Recreation Center (WRC) promotes and supports healthy lifestyles by providing participatory fitness and wellness programs, educational experiences, and related services, to improve the individual's physical health. At our centers at MMC and BBC, participants learn to introduce physical activity into their daily college life, developing lifelong, active lifestyle habits.

The Wellness and Recreation Center at MMC is equipped with state-of-the-art exercise and cardiovascular fitness equipment. The Center provides resistance and selectorized equipment, steppers, upright and recumbent bicycles, treadmills, rowers, and ellipticals in addition to free weights. Two basketball gyms, two indoor racquetball courts and one squash court, locker rooms, a Bike Shop, and a Pro Shop are also available. The WRC is located west of the Student Health Services Complex near Parkview Hall. Numerous PantherFIT group fitness classes are offered per week at the WRC. Free group exercise classes are offered throughout the year including: Hardbodies, Group Cycling, Yoga, and Zumba. Get

involved with Sport Programs on both campuses by participating in Intramural (IM) Sports and Sport Clubs. Panthers can play against Panthers by signing up to participate in a variety of IM Sports leagues and tournaments. IM Sports organizes the games, Panthers just need show up and play. Sport Clubs offers both recreational and competitive sports opportunities and the ability to have Panthers represent FIU in state, regional, and national competitions. Sport Programs also now offers the opportunity to get involved with Esports in both the IM Sports and Sport Clubs programs! To get involved, visit wrc.fiu.edu.

The Wellness and Recreation Center at BBC is located on the first floor of the Wolfe University Center (WUC), Room 160 and it includes an aquatic training facility, home to FIU's Conference USA Women Swimming and Diving Champions. The WRC at BBC features state of the art fitness equipment, a Group Exercise aerobics studio, locker rooms and showers. A variety of group exercise classes such as Yoga, Hip Hop Dance, Belly Dancing, etc. are also hosted at the center. Additionally, the WRC at BBC offers Kayaking, Nighttime Kayaking, and Stand-up Paddle Board excursions from our outdoor recreation program. Make sure to stop in and participate in our complimentary Bike Share program available to all student participants. New additions to the center includes a newly renovated Outdoor Recreation support building (which include a multipurpose room and new restrooms to support outdoor recreational services) and a Sand Volleyball Court located at Bay View Housing.

Both centers offer other facilities for recreational use such as Tennis Centers with lighted courts. The BBC Aquatic Center and MMC Panther Pool provide on-campus swimming opportunities. Learn To Swim Programs, water polo classes, triathlon training, and masters swimming classes are offered at the BBC Aquatic Center. At MMC, students have free access to nearby Tamiami Pool during the week from noon-3:00pm. At MMC, the WRC houses two outdoor basketball courts, one sand volleyball court, three turf fields, a jogging trail and so much more. The WRC at BBC is also host to the Team Ropes Adventure Challenge (TRAC), one of the most complete and professional team-building training programs in South Florida. TRAC is an experiential education program that focuses on human development and group dynamics. Participants learn new skills through a series of adventure-based activities that provide training in leadership, teambuilding development, communication, and problem-solving skills.

WRC also offers a new online platform that provides remote access to fitness and wellness programming. Whether it's live weekly Group Exercise classes, on-demand fitness options or professional development, the WRC has something for you to stay active and involved - no matter where you are! Just go to: wrc.fiu.edu

Both WRCs provide student employment opportunities as Sports Officials, Membership Assistants, Facility Attendants, Building Supervisors, Lifeguards, Group Fitness Instructors, Personal Trainers, etc. A current activated FIU OneCard is required for access to all recreation facilities and programs.

Web site: recreation.fiu.edu
WRC at MMC: (305) 348-2575 or 305-348-2951
WRC at BBC: (305) 919-5678

OFFICE OF VETERAN AND MILITARY AFFAIRS

The Office of Veteran and Military Affairs is committed to delivering and facilitating comprehensive “military-friendly” services and programs for FIU Florida International University veteran and military-affiliated learners. Our team is available to ensure each veteran and military-affiliated learner successfully transitions to college life and fulfills their professional goals.

The Office of Veteran and Military Affairs also provides additional support through our Center of Excellence for Veteran Student Success. The staff in this Center work with students and staff to increase persistence, retention, and graduation rates of student Veterans at FIU. This Center was developed to support Veteran student success by coordinating services to address the academic, financial, physical, and social needs of veteran students.

All veterans and military-affiliated students are required to contact the Office of Veteran and Military Affairs to ensure their academic program is approved by the Department of Veteran Affairs. For rate of monthly payment of educational allowances for veterans and dependents, please contact the Office of Veteran and Military Affairs at veterans@fiu.edu. All veteran and military-affiliated student questions should ensure their personal contact information is updated with the Department of Veterans Affairs prior to the start of each semester. Any veteran and/or military-affiliated students’ questions should be emailed to veterans@fiu.edu. Please remember to provide your name and Panther ID in all correspondence with our office.

Location: Tower 100, Modesto A. Maidique Campus and WUC 255, Biscayne Bay Campus. Phone: (305) 348-2838. Website: vma.fiu.edu. Email: veterans@fiu.edu.

VICTIM EMPOWERMENT PROGRAM (VEP)

Victim Empowerment Program services are free of charge and confidential for registered students.

Crisis support, advocacy and trauma-informed counseling services for students who are or who have experienced interpersonal violence, including threats of abuse or violence. Victim advocate counselors provide students with information, explain options available to them, and provide assistance with accessing resources they’ve identified. This information is also available to students who want resources for someone they know.

- Types of interpersonal violence include: relationship abuse, sexual assault, stalking, assault and battery, hate crimes, harassment, and cyber harassment

VEP advocacy services discussed with students might include:

- Safety planning
- Seeking medical treatment
- Finding emergency shelter
- Understanding and navigating the criminal justice system
- Assistance in making police reports
- Petitioning the court for an injunction for protection (i.e., “restraining order”)

- Assistance with making reports to the University, such as Title IX
- Communicating with professors and/or other parties as requested by the survivor for academic accommodations
- Assistance with university administrative procedures
- Support during investigations, information meetings and hearings
- Escort to appointments, hearings, and medical facilities
- Help with other solutions that may be necessary

Contact or visit us at the Modesto A. Maidique Campus - Student Health Center Suite 270, [305] 348-2277; and by appointment at the Biscayne Bay Campus – WUC 320, (305) 919-5305.

After-hours urgent help is available at 305-348-2277. Additional information and resources are available at vep.fiu.edu.

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Associate Vice President, Alumni Relations **Sara DuCuennois**

Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and by participating nonpublic institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online SCNS database to obtain course descriptions and specific information about course transfer between participating Florida institutions. Visit the SCNS website at **http://scns.fldoe.org**.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the SCNS. The listing of prefixes and associated courses is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

THE COURSE PREFIX

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

GENERAL RULE FOR COURSE EQUIVALENCIES

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in *Exceptions to the General Rule for Equivalency*.

For example, a freshman composition skills course is offered by multiple public and nonpublic postsecondary institutions. Each institution uses "ENC_101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit "1" represents "Freshman Composition," the decade digit "0" represents "Freshman Composition Skills," and the unit digit "1" represents "Freshman Composition Skills I."

In the sciences and certain other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course that has the same prefix and course number but meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a state/community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at a Florida College System institution is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent. **NOTE**: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term system. For example, 4.0 quarter hours transfers as 2.67 semester hours.

AUTHORITY FOR ACCEPTANCE OF EQUIVALENT COURSES

Section 1007.24(7), Florida Statutes, states:
Any student who transfers among accredited postsecondary institutions that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.
For purposes of clarity, an accredited institution refers to a post-secondary institution whose institutional accreditor is recognized by the U.S. Department of Education, Office of Postsecondary Education.

EXCEPTIONS TO THE GENERAL RULE FOR EQUIVALENCY

Since the initial implementation of the SCNS, specific disciplines or types of courses have been excepted from the guarantee of transfer for equivalent courses. These include courses that must be evaluated individually or courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

A. Courses not offered by the receiving institution.
B. Courses included in the SCNS completed prior to the established transfer date of the course in question.
C. Courses in the _900-999 series and must be evaluated individually. These include special topics, internships, apprenticeships, practica, study abroad, theses and dissertations.
D. Applied academics for adult education courses.
E. Graduate courses.
F. Internships, apprenticeships, practica, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses). These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

COURSES AT NONPUBLIC ACCREDITED INSTITUTIONS

The SCNS website http://scns.fldoe.org contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly. Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to: Transfer and Transition Services, Enrollment Management and Services; 305-348-3844, transfer@fiu.edu or the Florida Department of Education, Office of Articulation, 325 West Gaines Street, Room 1401 Tallahassee, Florida 32399-0400; 850-245-0427, articulation@fldoe.org.

Special Course Directory

In addition to the regular courses listed in the catalog*, special courses may be offered using the State Wide Course Numbering System. The following table provides an inventory of course numbers by course type.

		Undergraduate		Graduate		
Course Type	**Course Number**	**Lower**	**Upper**	**Post Bacc**	**Masters**	**Doctoral**
Directed Readings/Independent Study	-900 through –909	1--- or 2---	3--- or 4---	5---	6---	7---
Directed Independent Research	-910 through -919	XXXX	3--- or 4---	5---	6---	7---
Colloquiums/Symposiums/Workshops	-920 through -929	1--- or 2---	3--- or 4---	5---	6---	7---
Special Topics/Seminars	-930 through -939	1--- or 2---	3--- or 4---	5---	6---	7---
Internships/Practicum/Clinical						
Practice/Cooperative Education	-940 through -949	1--- or 2---	3--- or 4---	5---	6---	7---
Activities/Performances/Study Abroad	-950 through -959	1--- or 2---	3--- or 4---	5---	6---	7---
Preliminary/Comprehensive Examinations	-960 through -969	XXXX	XXXX	5---	6---	7---
Thesis/Thesis Defense	-970 through -979	XXXX	XXXX	XXXX	6---	XXXX
Dissertation/Dissertation Defense	-980 through -989	XXXX	XXXX	XXXX	XXXX	7---
Experimental Courses/Reserved for Special Institutional Purposes	-990 through-999	1--- or 2---	3--- or 4---	5---	6---	7---

*** FIU is in the process of re-numbering all special courses to comply with the State Wide Course Numbering sequence above. Therefore, some of the special courses listed in the catalog may change.**

ACADEMIC UNITS

College of Arts, Sciences and Education
MMC (305) 348-2864
BBC (305) 919-6000
FIU @ I-75 (954) 438-8600
Email: case@fiu.edu
case.fiu.edu

School of Education and Human Development
MMC (305) 348-3202
case.fiu.edu/sehd

School of Environment, Arts and Society
BBC (305) 919-6000
Email: seas@fiu.edu
case.fiu.edu/seas

School of Integrated Science and Humanity
sish.fiu.edu

College of Business
MMC (305) 348-2751
BBC (305) 919-5870
FIU at I-75 (954) 438-8600
FIU Downtown on Brickell (305) 348-0148
Email: cobquestions@fiu.edu
business.fiu.edu

Alvah H. Chapman, Jr. Graduate School of Business
MMC (305) 348-0148
Email: chapman@fiu.edu
business.fiu.edu/graduate

School of Accounting
MMC (305) 348-3501
Email: soacct@fiu.edu
business.fiu.edu/soa

Tibor and Sheila Hollo School of Real Estate
FIU Downtown on Brickell (305) 779-7898
business.fiu.edu/realestate

College of Communication, Architecture, and the Arts
MMC (305) 348-7500
Email: carta@fiu.edu
carta.fiu.edu

School of Communication and Journalism
BBC (305) 919-5674
Email: scj@fiu.edu
scj.fiu.edu

School of Music
MMC (305) 348-2896
Email: music@fiu.edu
carta.fiu.edu/music

College of Engineering and Computing
MMC (305) 348-2522
FIU at I-75 (954) 438-8600
cec.fiu.edu

Knight Foundation School of Computing and Information Sciences
MMC (305) 348-2744
Email: grad_eng@fiu.edu
cis.fiu.edu

Moss School of Construction, Infrastructure, and Sustainability
MMC (305) 348-3172
cm.fiu.edu

School of Universal Computing, Construction, and Engineering Education
MMC (305) 348-9995
Email: succeed@fiu.edu
succeed.fiu.edu

School of Biomedical, Materials and Mechanical Engineering
MMC (305) 348-7292
https://cec.fiu.edu/academics/departments-schools/bmme

School of Electrical, Computer and Enterprise Engineering
MMC (305) 348-2807
https://cec.fiu.edu/academics/departments-schools/ecee

College of Law
MMC (305) 348-8006
Email: lawadmit@fiu.edu
law.fiu.edu

Herbert Wertheim College of Medicine
MMC (305) 348-0570
medicine.fiu.edu

Nicole Wertheim College of Nursing and Health Sciences
MMC (305) 348-7703
Email: SSCNHS@fiu.edu
cnhs.fiu.edu

Robert Stempel College of Public Health and Social Work
MMC (305) 348-4903
Email: stempel@fiu.edu
stempel.fiu.edu

School of Social Work
MMC (305) 348-5881
Email: sowpracticum@fiu.edu
stempel.fiu.edu/academics/school-social-work

Chaplin School of Hospitality and Tourism Management
BBC (305) 919-4500
Email: hospitality@fiu.edu
hospitality.fiu.edu

Steven J. Green School of International and Public Affairs
MMC (305) 348-7266

Email: **international@fiu.edu**
sipa.fiu.edu

University Graduate School
MMC (305) 348-2455
Email: **ugs@fiu.edu**
gradschool.fiu.edu

FIU Libraries
MMC (305) 348-2451
BBC (305) 919-5718
library.fiu.edu

CENTERS AND INSTITUTES

https://aim.fiu.edu/centers.htm

Applied Research Center
https://arc.fiu.edu/

Biomolecular Sciences Institute
https://bsi.fiu.edu/

Center for Advanced Technology and Education
https://cate.fiu.edu/

Center for Children and Families
https://ccf.fiu.edu/

Center for Cyber Infrastructure Education and Research for Trust and Assurance
https://cyber.cs.fiu.edu/

Center for Diversity and Student Success in Engineering and Computing
https://cdssec.fiu.edu/

Center for Internet Augmented Research and Assessment
http://www.ciara.fiu.edu

Center for Labor Research and Studies
http://labor.fiu.edu

Center for Leadership
https://lead.fiu.edu/

Center for the Administration of Justice
http://caj.fiu.edu/

Center for the Humanities in an Urban Environment
https://humanities.fiu.edu/index.html

Center for the Study of Matter at Extreme Conditions
http://cesmec.fiu.edu/

Center for Research on U.S. Latino HIV/AIDS and Drug Abuse (CRUSADA)
https://crusada.fiu.edu/

Cuban Research Institute
http://cri.fiu.edu/

Center for Women's and Gender Studies
http://womenstudies.fiu.edu/

CREST Center for Aquatic Chemistry and Environment
https://crestcache.fiu.edu/

Engineering Manufacturing Center
https://cec.fiu.edu/

English Language Institute
https://eli.fiu.edu/

Eugenio Pino Global and Family Entrepreneurship Center
http://business.fiu.edu/entrepreneurship/pino.cfm

Extreme Events Institute
https://eei.fiu.edu/

FIU Community-Based Research Institute
https://cbri.fiu.edu/

FIU STEM Transformation Institute
http://stem.fiu.edu

Florida Caribbean Institute
http://lacc.fiu.edu/academics/financial/fci

Florida Mexico Institute
http://lacc.fiu.edu/academics/financial/fmi

High Performance Database Research Center
http://hpdrc.cs.fiu.edu

Institute of NeuroImmune Pharmacology
https://medicine.fiu.edu/about/departments/immunology/institute-of-neuroimmune-pharmacology/index.html

Institute of Environment
https://environment.fiu.edu

International Center for Tropical Botany at the Kampong
https://environment.fiu.edu/land-and-biodiversity/ictb/index.html

International Forensic Research Institute
http://ifri.fiu.edu

International Hurricane Research Center
http://www.ihrc.fiu.edu/

Jack D. Gordon Institute for Public Policy
http://gordoninstitute.fiu.edu/

Jerome Bain Real Estate Institute
http://business.fiu.edu/Jerome-bain/index.cfm

Jorge M. Perez Metropolitan Center
http://metropolitan.fiu.edu/

Kimberly Green Latin American and Caribbean Center
http://lacc.fiu.edu/

Lehman Center for Transportation Research
http://lctr.eng.fiu.edu

Ryder Center for Supply Chain Management
http://business.fiu.edu/ryder/index.cfm

Sea Level Solutions Center
http://slsc.fiu.edu/

Telecommunications and Information Technology Institute
http://www.it2.fiu.edu/

SELECT SUPPORT SERVICES

ACADEMIC ADVISING
acs.fiu.edu/offices-services/advising
MMC (305) 348-9951
BBC (305) 919-5754

ADMISSIONS
admissions.fiu.edu
MMC (305) 348-2455

ATHLETICS
fiusports.com
MMC (305) 348-8392

BOOKSTORE
fiu.bncollege.com
MMC (305) 348-2691
BBC (305) 919-5580

STUDENT FINANCIALS
controller.fiu.edu/departments/student-financials-systems/
MMC (305) 348-2126
BBC (305) 919-5540

CAMPUS LIFE
https://dasa.fiu.edu/all-departments/campus-life
MMC (305) 348-2138
BBC (305) 919-5804

CAREER AND TALENT DEVELOPMENT
career.fiu.edu
MMC (305) 348-2423
BBC (305) 919-5770

CENTER FOR ACADEMIC SUCCESS
learningcenter.fiu.edu
MMC (305) 348-2441
BBC (305) 919-5927

CENTER FOR EXCELLENCE IN WRITING
writingcenter.fiu.edu
MMC (305) 348-6634
BBC (305) 919-4036

CENTER FOR TESTING AND CAREER CERTIFICATION
testing.fiu.edu
MMC (305) 348-2441
BBC (305) 919-4043

COUNSELING AND PSYCHOLOGICAL SERVICES
caps.fiu.edu
MMC (305) 348-2277
BBC (305) 919-5305

FINANCIAL AID
onestop.fiu.edu/finances
MMC (305) 348-7000

GRADUATION
commencement.fiu.edu
MMC (305) 348-2341

HOUSING AND RESIDENTIAL LIFE
housing.fiu.edu
MMC (305) 348-4190

JEWISH MUSEUM OF FLORIDA FIU
jmof.fiu.edu
(305) 672-5044

LIBRARY
library.fiu.edu
MMC (305) 348-2451
BBC (305) 919-5718

OFFICE OF RESEARCH AND ECONOMIC DEVELOPMENT
research.fiu.edu/ored
MMC (305) 348-2494

ONESTOP (ADMISSION, REGISTRATION, FINANCIAL SERVICES)
onestop.fiu.edu
onestop@fiu.edu
MMC (305) 348-7000

PARKING AND TRANSPORTATION
parking.fiu.edu
MMC (305) 348-3615

PATRICIA AND PHILLIP FROST ART MUSEUM
frost.fiu.edu
MMC (305) 348-2890

UNIVERSITY POLICE DEPAREMENT
police.fiu.edu
MMC (305) 348-2626

RICOH@FIU (copy center, packing, and shipping)
shop.fiu.edu/retail-services/ricoh
MMC (305) 348-7426
BBC (305) 919-4444

STUDENT FINANCIALS
controller.fiu.edu/departments/student-financials-systems/
(305) 348-2126

STUDENT GOVERNMENT ASSOCIATION
studentaffairs.fiu.edu/get-involved/student-government-association
MMC (305) 348-2121
BBC (305) 919-5680

STUDENT HEALTH CLINICS
dasa.fiu.edu/campus-spaces/student-health-clinics/
MMC (305) 348-8385
BBC (305) 919-5620

UNIVERSITY CREDIT UNION
ucumiami.org/en/membership-2/florida-international-university
(786) 425-5000

VETERAN AND MILITARY AFFAIRS
dasa.fiu.edu/all-departments/veteran-and-military-affairs
MMC (305) 348-2838

VICTIM EMPOWERMENT PROGRAM
dasa.fiu.edu/all-departments/victim-empowerment-program
MMC (305) 348-2277
BBC (305) 919-5305

WELLNESS & RECREATION CENTERS
dasa.fiu.edu/all-departments/wellness-recreation-centers
MMC (305) 348-2575
BBC (305) 919-5678

WOLFSONIAN MUSEUM FIU
wolfsonian.org
(305) 531-1001

WOMEN'S CENTER
dasa.fiu.edu/all-departments/womens-center-at-fiu
MMC (305) 348-2436
BBC (305) 919-5359

College of Arts, Sciences and Education

Executive Dean **Michael R. Heithaus**
Dean, School of Education and Human Development **Laura Dinehart**
Dean, School of Environment, Arts, and Society **Ana Luszczynska**
Dean, School of Integrated Science and Humanity **Walter Van Hamme**
Associate Dean, Undergraduate Studies **Maricel Cigales**
Associate Dean, Graduate Studies **Brian Raue**
Associate Dean, Research **Rita Teutonico**
Assistant Dean, Accreditation and Assessment **Deborah J. Hasson**
Assistant Dean, College Operations **Hector Junco**
Director of Liberal Studies **Wanda Raiford**

The College of Arts, Sciences and Education furthers the study of fundamental intellectual disciplines and serves the University's other colleges and schools. The College grants Bachelor's, Master's, and Ph.D. degrees. In addition, the College serves students who need to complete general education and core curriculum requirements and other requirements in order to enroll in specific disciplines or professional programs.

As the heart of a leading public research university, the College of Arts, Sciences and Education plays a vital role in the intellectual, cultural and civic life of local, national and international communities. The College provides an educational foundation that prepares FIU students to be successful and engaged citizens in a global society. The College generates extensive scholarship that yields new knowledge, shapes how we teach and learn, and contributes to a more complete understanding of the world.

The College is composed of 11 departments and several interdisciplinary programs.

Graduate Programs

The College has academic programs leading to Master's degrees in Biology, Chemistry, Creative Writing, English, Environmental Studies, Environmental and Urban Systems (offered jointly with the College of Engineering and Computing), Environmental Policy and Management, Forensic Science, Geosciences, Linguistics, Mathematical Sciences, Physics, Psychology, and Statistics.

The College offers academic programs leading to the Ph.D. in Biochemistry, Biology, Chemistry, Earth Systems Science, Mathematical Sciences, Physics, and Psychology, Curriculum and Instruction, and Higher Education. The College also offers Ed.D's in Curriculum and Instruction, Education Leadership and Exceptional Student Education.

Graduate Certificate Programs

The College offers academic programs leading to graduate certificates in Applied Behavior Analysis, Applied Social and Cultural Psychology, Biodiversity Conservation and Management, Cognitive Neuroscience, Environmental Studies, Geographic Information Systems, Quantitative Environmental Finance, Marriage and Family Therapy, Water Environment and Development Studies, and Women and Gender Studies.

Graduate Admission Requirements

The College's admission requirements as listed below are in addition to the University's graduate admission requirements. These are minimal requirements. Please consult the specific graduate program, which may have different requirements.

1. A 3.0 or higher GPA during the last two years as an upper division student is required for a master's degree. A 3.0 or higher GPA and submission of an official GRE score are required for the Ph.D. degree. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the IBT TOEFL or 6.3 overall on the IELTS is required.
2. The GRE or GPA stated above are only minimum requirements. All applications are reviewed by each program's Graduate Studies Admission Committee, which makes the final admission recommendations. Since admission to the program is competitive, the committee's requirements are normally higher than the minimum aforementioned standards.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to the mandates of the Florida Board of Education, or Board of Governors, and the Florida Legislature. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Interdisciplinary Courses

The College of Arts, Sciences and Education has several interdisciplinary programs which are not based in a specific academic department. The courses offered by these programs, therefore, are not found in the departmental listings in the Catalogs, but are included here.

IDS 5176 Experimental Arts (1-3). The study and creation of Experimental Artworks, involving media/sound, movement, visual art, etc. Students from different disciplines in the Arts have the opportunity to collaborate together and create new works. Prerequisite: Permission of the instructor.

ISS 5166 Sustainable Communities Seminar (3). Explores theories and aspects of sustainable communities, and considers the concept in comparative-historical, local-global, and critical perspectives. Prerequisite: Permission of the instructor.

ISS 5237 Latin American and Caribbean Cultural Expressions (3). This interdisciplinary course develops an interdisciplinary approach to the study of national, cultural, and racial identities, as expressed in cultural productions of the Latin America and the Caribbean.

ISS 5238 The Imaged Body: The Case of the Americas (3). With a team-taught interdisciplinary approach this course explores how identity, power and hierarchy are invoked and represented through the human body and body movement in the region of the Americas.

School of Education and Human Development

Senior Associate Dean **Laura Dinehart**
Director, Clinical Experiences **Judith Cohen**

The School of Education and Human Development (SEHD) at Florida International University is one in which candidates, faculty, and staff embrace the shared experiences of a diverse, international, professional-learning community. The School, therefore, strives to facilitate diverse learning environments where knowledge becomes the means to foster goal attainment for all those involved in the learning process. This process necessitates the highest ethical standards, while emphasizing inquiry as the means-ends connection to enhancing reflective intelligence in a changing social, political, cultural and technological world.

The School of Education and Human Development is charged to prepare professionals who have the knowledge, abilities, and dispositions to facilitate and enhance learning and development within diverse settings. Consequently, the school promotes and facilitates the discovery, development, documentation, assessment, and dissemination of knowledge related to teaching and learning by developing professional partnerships in the larger community that foster significant educational, social, economic and political change. Our mission supports:

- Programs that reflect curricula that reflect sound theory and best practice.
- Highly qualified and diverse students and graduates.
- Highly qualified and diverse faculty active in teaching, research and service.
- Effective and ethical governance and organizational structure within an environment of open communication among faculty, administrators, staff, students and community.
- Collaborative and mutually beneficial partnerships with schools and other organizations.
- Visibility and impact at local, state, national and international levels.
- Continuous improvement of the School.

The School offers instructional programs at the undergraduate and graduate levels, engages in research and program development activities, and provides field services to the educational community. The School, housed in the Sanford and Dolores Ziff Education Building (ZEB) at Florida International University—Modesto A. Maidique Campus, is fully accredited by the National Council for the Accreditation of Teacher Education, the Florida Department of Education, and the State University System.

To support its mission, the School is organized into three separate but related departments:

- Counseling, Recreation and School Psychology
- Educational Policy Studies
- Teaching and Learning

Applicants to the School's programs should carefully examine the choices of major concentrations and program objectives. Because there are occasional revisions to the School of Education and Human Development's curriculum during the academic year, some curriculum changes may not be reflected in the current catalog. Prospective students are advised to contact appropriate advisors to ask for current information regarding specific programs of interest.

Specific program advisement is available by prearranged personal appointment with advisors at all locations. Additional information is available on the FIU website at **www.fiu.edu** or at the School of Education and Human Development website at **http://education.fiu.edu**.

***Note*:** The programs, policies, requirements, and regulations listed in this catalog are continually subject to review to serve the needs of the University's various publics and to respond to the mandates of the Florida Legislature and the State University System. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that the requirements have been met.

It is recommended that students meet with their advisors throughout the program to assure adequate progress.

Master's, Specialist, and Doctoral Degrees

The SEHD offers graduate programs at the Master's (MS), Educational Specialist, (Ed.S.) and Doctoral levels, both Doctorates of Philosophy (Ph.D.) and Doctorates of Education (Ed.D.). All graduate programs include courses and may include seminars, field experiences, research projects, theses, and dissertations, depending upon the student's level and area of emphasis.

Master of Science Degree Programs

Master of Science degree programs are offered in the following specialties and tracks:

Adult Education and Human Resource Development
Counselor Education
  School Counseling
  Clinical Mental Health Counseling
  Rehabilitation Counseling
Curriculum and Instruction
  Curriculum Development
  Curriculum Development Online
  Elementary Education
  English Education
  Learning Technologies
  Mathematics Education
  Modern Language Education
  Physical Education
  Science Education
  Social Studies Education
  Special Education
Early Childhood Education
Educational Leadership
Foreign Language Education
  Teaching in Challenging Contexts (TiCC) Track
Higher Education Administration
International and Intercultural Education

Kinesiology and Exercise Science
Reading/Literacy Education (K-12)
Recreation and Sport Management
  Recreation and Sport Management Track
  Recreational Therapy Track
Research Design and Methodology
Special Education
Urban Education
  Bilingual
  Foundations
  Instruction in Urban Settings
  TESOL

Admission to the various Master's programs differs. Applicants for admission to most Master's of Science programs in Education must hold or qualify for Florida teacher certification in the appropriate area (see specific program area in this catalog for details). In some programs, applicants must also satisfy the following minimum requirements: A GPA of 3.0 in the last 60 semester hours of upper division undergraduate study. Some, but not all programs require taking at least the verbal and quantitative parts of the Graduate Record Examination (GRE). Students should check with the department for specific admissions requirements.

Specific programs may have higher standards for admission. Having a minimum GPA and/or GRE score does not assure admission to a program. Admission is subject to the approval of program faculty.

Prior to formal admission to a graduate program, students may be approved to enroll in up to 12 semester hours of 5000 or higher level graduate credit as non-degree seeking students, 12 of which, if applicable to the major field of study and approved by an advisor, may be applied to the degree program if the grade received is "B" or higher.

Graduate students will complete at least 30 semester hours of study beyond the bachelor's degree to earn a Master of Science degree in Education. However, specific programs may require more than the minimum number of hours. Students may transfer a maximum 6 approved semester hours taken at another accredited college or university toward a master's degree program.

Master's program students must maintain an overall GPA of 3.0 to graduate. No grades of 'C-' or less received in courses that are part of a master's degree program of study will be accepted toward graduation.

Admission requirements include those required of any graduate student in a M.S. level degree program. In addition, students applying into initial certification programs (e.g., School Counseling Track, School Psychology, Reading/Literacy Education, and Educational Leadership) must pass all sections of the General Knowledge Test (GKT). Students may substitute scores of 1000 in the GRE for the GKT.

Note: Students who pass the CLAST prior to July 1, 2002 will be waived from taking the new General Knowledge test. Please see your faculty advisor to be certain all requirements are met.

Educational Specialist Degree Programs

Education Specialist degree programs are offered in the following specialties:

- Teaching and Learning
- Educational Leadership
- School Psychology

The programs require a minimum of 36 semester hours of course work at the University beyond the Master's degree. However, specific programs may require more than the minimum number of hours and may include six semester hours of thesis if that option is chosen.

Admission requirements and transfer of credit are the same as for the master's programs. *Note:* Transfer credit policies for the School Psychology are in the process of being revised. Be sure to check with a program advisor.

Doctoral Programs

The School of Education and Human Development offers four Doctor of Education degree programs and two Doctor of Philosophy degree programs. Several of the programs have specialties or subplans. Specific information about each of the programs and its requirements and areas of specialty can be found in the department's specific program descriptions.

Advisement for these programs may be obtained by calling the appropriate department office/ Contact the Department of Teaching and Learning Office at (305) 348-2003. Contact the Department of Educational Policy Studies office at (305) 348-3418. Detailed admission requirements, program descriptions, and graduation requirements may be obtained from doctoral program advisors in specific areas and by examining program descriptions in this catalog.

Doctor of Education Degree Program Specialties

Doctor of Education degree (Ed.D.) programs are offered in the following specialties and tracks:

- Adult Education and Human Resource Development
  - Entrepreneurship
  - Hospitality and Tourism Management
  - International and Intercultural Education
  - Labor Studies
  - Recreation and Sport Management
  - Urban Education
- Educational Leadership and Policy Studies
  - Higher Education

Doctor of Philosophy Degree Program Specialties

A Doctor of Philosophy degree (Ph.D.) is offered with the following specialties:

Teaching and Learning
  Curriculum, Cultural, and Social Studies
  Elementary Education and Early Childhood Education
  Kinesiology
  Language, Literacy, Literature, and Culture
  Science, Technology, Engineering, and Mathematics Education (STEM)
  Special Education
Higher Education

Student Teaching and Fingerprint Requirements

State of Florida Certification requires all applicants to be fingerprinted and checked by state and local law

enforcement agencies. Local public and private schools and systems may also require similar security procedures for field placements, student teaching and/or internships. Students with a CHR (criminal history record) should be prepared to promptly provide documentation of adjudication to facilitate review and determination of eligibility for placement in the district or school requested. Details regarding specific district requirements, deadlines and documentation are available in ZEB 130, Office of Clinical Experiences.

For all Teacher Prep and Counseling Field Experiences

Online information and the student teaching application is available at **http://education.fiu.edu**. Online submission deadline for Fall placement is due February 1; application for Spring placement is due June 1.

Portfolio by Anthology Student Accounts

Beginning Summer 2022, all School of Education and Human Development students enrolled in a teacher/educator preparation program will have access to a Portfolio by Anthology student account that will be used throughout their FIU career. Portfolio is an electronic data management system fully integrated with Canvas that allows students to upload and share critical assignments that demonstrate their mastery of Florida Educator Accomplished Practices, Florida Subject Area Competencies and other specialized program standards. For the 2022-2023 academic year, Portfolio student accounts will be covered by a FIU Tech Fee grant. Should funding be discontinued or not renewed, effective Fall 2023, a nominal lab fee will be added to Portfolio courses.

Dissertation Registration Requirements

A doctoral student may enroll for dissertation credits after completing all coursework, passing the candidacy examination and being advanced to candidacy. Dissertation credits taken before advancement to candidacy will not be counted toward the degree. Candidates must comply with the continuous enrollment policy which is the registration of not less than 3 hours of dissertation credits in every semester, including summer semester, once he or she begins candidacy. In addition, the candidate must be enrolled for dissertation credits during the semester in which the doctoral degree is awarded.

Graduation Requirements

- All degree requirements must be met
- Cumulative GPA of 3.0 or higher
- No grades of “C“ or less received in courses that are part of a Master’s program of study will be accepted toward graduation.
- Must be registered the semester in which degree is to be awarded.

All students graduating from programs that lead to initial certifications (e.g., MS in School Counseling, MS in Reading, Ed.S. in School Psychology, MS in Educational Leadership) must pass all sections of the Florida Teacher Certification Exam (FTCE) or Florida Educational Leadership Exam (FELE) Certification Exam prior to graduation. This includes the Professional Education, Subject Area, and the General Knowledge Exams. All MS in Reading/Literacy Education students must have ESOL Endorsement or have taken TSL 5361C prior to graduation. In addition, students must demonstrate successful completion of the Florida Educator Accomplished Practices. Students should submit evidence of passing all sections of the FTCE or FELE exams prior to the end of the final week of in the semester in which they are applying for graduation.

Counseling, Recreation and School Psychology

Aaron M. Kuntz, *Professor and Chair, Counseling, Recreation, and School Psychology*
Amanda Allen, *Assistant Professor, School Psychology*
Hyejin Bang, *Associate Professor, Recreation and Sport Management*
Leonard Bliss*, Emeritus Professor, Educational Research*
Michelle Bradham-Cousar*, Clinical Assistant Professor, Counselor Education*
Mido Chang, *Professor, Educational Research*
Mi Ryoung Chung, *Visiting Assistant Teaching Professor, Recreation and Sport Management*
Tiberio Garza, *Assistant Professor, Educational Research*
Shayl Griffith, *Assistant Professor, School Psychology*
Tameeka Hunter, *Assistant Professor, Counselor Education-ADD*
Philip J. Lazarus, *Associate Professor, School Psychology*
Kellina Lupas, *Assistant Professor, School Psychology*
Christina McGrath-Fair*, Visiting Clinical Assistant Professor, Counselor Education*
Emily Messina, *Associate Professor, Rehabilitation & Recreational Therapy*
Lauren Ortega, *Assistant Teaching Professor, Recreational Therapy*
Martha Pelaez, *Professor, Educational Psychology and School Psychology*
Andy V. Pham, *Associate Professor, School Psychology*
Zachary Pietrantoni, *Assistant Professor, Counselor Education -ADD*
Tonia Porter, *Visiting Assistant Teaching Professor, Rehabilitation & Recreational Therapy*
Alena Prikhidko, *Assistant Professor, Counselor Education*
Yuxi Qiu, *Clinical Assistant Professor, Educational Research*
Valerie E. Dixon, *Clinical Associate Professor, Counselor Education*
Tania Santiago-Perez, *Associate Teaching Professor, Rehabilitation & Recreational Therapy*
Amelia Saul*, Visiting Assistant Teaching Professor, Rehabilitation & Recreational Therapy*
Nicholas Smith, *Assistant Teaching Professor, Recreation and Sport Management*
Anthony Weems, Assistant Professor, *Recreation and Sport Management*
Melody Whiddon-Willoughby, *Clinical Associate Professor, Educational Psychology*
Robert M. Wolff, *Emeritus Professor, Recreation and Sport Management*

General Information

The Department of Counseling, Recreation and School Psychology offers programs and courses for students interested in working in a wide range of organizational, urban/ multicultural/ international contexts of education and training. Academic preparation focuses on such areas as research/evaluation, counselor education, school psychology, recreation therapy and recreation and sport management. In addition, the department provides the core undergraduate and graduate curricula in the psychological foundations of education and research, measurement, and evaluation. The department offers master's degrees in counselor education and recreation and sport management, the specialist degree in school psychology and an undergraduate degree in Recreation and Sport Management. Department faculty are recognized as national/international scholars, exemplify outstanding teaching practices, and are committed to taking a leadership role in the provision of professional services and the process of community engagement. The faculty are worlds ahead in their commitment to serving and maximizing student learning, engaging in the discovery and dissemination of new knowledge, and encouraging a creative and innovative spirit among students. Community engagement plays a pivotal role in the programs and sponsored-research projects implemented through the department, where critical problems confronting our communities are identified and addressed.

The following pages describe the various graduate offerings in the department and the corresponding requirements. It should be noted that stated admission requirements are to be considered minimal. A student who meets these minimal requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

The Department of Counseling, Recreation and School Psychology offers the following degree programs:

Master's Degrees

Counselor Education
- School Counseling Track
- Clinical Mental Health Counseling Track
- Rehabilitation Counseling Track

Recreation and Sport Management
- Recreation and Sport Management Track
- Recreational Therapy Track

Research Design and Analysis

Educational Specialist Degree

School Psychology

Master of Science in Counselor Education

Applicants are required to submit an on-line application to the Office of Graduate Admissions. All applicants must submit official transcripts, three letters of recommendation (at least one from academic sources and one from work or volunteer experience), an autobiographical statement and a curriculum vitae (resume). After initial review of application materials, candidates will be invited to participate in interview activities on a day coordinated by the Counselor Education program. Candidates are admitted by recommendation of the Program's Graduate Admissions Committee. Minimum criteria for program acceptance include an undergraduate grade point average of 3.0 for the Rehabilitation Counseling track and 3.2 for the Clinical Mental Health and School Counseling tracks. Applicants with a completed Master's degree or higher, who do not meet the undergraduate GPA, will have their graduate GPA considered, as long as it is a 3.2 or higher. The program operates in a full-time cohort model. As such, candidates are admitted to either a Fall and Spring cohort and complete coursework together within their respective cohort. The

application deadline for Fall admissions takes place in March, while the application deadline for Spring admissions takes place in October.

Students may request to transfer six semester hours earned at another institution that is CACREP accredited into the program provided the course work taken does not exceed a three year time period and meet University's requirements. Students must complete this process with their advisor during the first semester in the program. Students are allowed a maximum of six years from the date of initial enrollment to complete program requirements.

Given the unique nature of the field of counseling requiring mastery of cognitive skills and demonstration of relevant and appropriate interpersonal skills, the faculty retains the right to "counsel out" of the program and/or not recommend for internship placement any student whose level of interpersonal competence is considered incompatible with that required for effective functioning as a practitioner in counseling.

All stated admission requirements are to be considered minimal. A student who meets these minimal requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements. Allow 6-8 weeks for applications to be processed by the Graduate Admissions Office.

Once admitted, each student is responsible for tracking academic progress throughout the program, and a degree can be revoked if academic dishonesty or fraudulence is discovered.

Counselor Education Degree/Tracks

The **Master of Science in Counselor Education Tracks** prepare individuals for professional counseling positions in schools, community mental health settings, and rehabilitation agencies and institutions. These programs emphasize the blending of research and theory with practical applied experience. They also emphasize and reflect the urban and multicultural nature of our community, as well as general trends within specified fields. All programs involve intensive field work with accompanying seminars.

Individuals interested in majoring in Counselor Education can select one of three tracks; School Counseling (60 credits), Clinical Mental Health Counseling (60 credits), and Rehabilitation Counseling (60 credits). The early part of each program is largely generic in nature and is concerned with the development of knowledge and skills in the areas of individual and group counseling, consultation, preventive mental health, education-vocational development, client appraisal, systems intervention, and program organization and evaluation. The latter part of each program is more differentiated towards the practice of school counseling, mental health counseling, or rehabilitation counseling. The prospective student should be advised that a substantial amount of time is spent in field work to meet practicum and internship requirements. The student should plan for this field work to be during the day, rather than during evening hours. Because internship experiences require full time work in the field, students are advised that full time employment is not compatible with successful completion of the program.

The **Master of Science in Counselor Education, School Counseling Track**, is nationally accredited by the Council for the Accreditation of Counseling and Related Education Programs (CACREP) and is approved by the State of Florida Department of Education, which allows students completing the program to be eligible for certification in Guidance and Counseling. The **Master of Science in Counselor Education, Clinical Mental Health Counseling Track**, is nationally accredited by the Council for the Accreditation of Counseling and Related Education Programs (CACREP) and meets all requirements as outlined by the Florida Department of Medical Quality Assurance for licensure as a Mental Health Counselor. The **Master of Science in Counselor Education, Rehabilitation Counseling Track**, is nationally accredited Council for the Accreditation of Counseling and Related Education Programs (CACREP) and prepares students for certification in Rehabilitation Counseling (CRC).

Counselor Education: School Counseling Track (60 credits):

All students entering the School Counseling program with an undergraduate degree in an area other than education must enroll for courses in general professional education as required by the Florida State Department of Education in order to meet state certification requirements in Florida. In addition, all students must have passed the CLAST, or the General Knowledge Exam, or the Praxis I. After July 1, 2002, the CLAST exam may be waived for admission purposes if the student has a score of 1000 and higher on the GRE.

Counseling Core: (27)

EDP 6277	Human Development Across Lifespan	3
MHS 5340	Educational/Vocational Counseling	3
MHS 5400	Counseling Skills and Techniques	3
MHS 6200	Measurement and Appraisal in Counseling	3
MHS 6428	Cross Cultural Counseling	3
MHS 6511	Group Counseling	3
MHS 6630	Program Evaluation in Counseling & School Psychology	3
MHS 6700	Ethical, Legal, & Professional Issues in Counseling	3
MHS 6802	Personality Theories	3

Specialization: (21)

EDF 6211	Educational Psychology	3
MHS 6450	Substance Abuse Counseling	3
SDS 5420	Counseling Students with Exceptionalities	3
SDS 5460	Crisis Counseling and Interventions	3
SDS 6411	Counseling Children and Adolescents	3
SDS 6700	Organization and Administration of School Counseling	3
SPS 6199	Family-School Consultation and Collaboration	3

Clinical Experience: (12)

SDS 6800	Advanced Practicum in Counseling and Consultation	3
SDS 6820	Supervised Field Experience in Counselor Education	9

Corequisites: Students who do not hold a Florida Teacher's Certificate (or that have not taken these courses as an undergraduate student) must complete additional credits of professional education courses classroom management, general methods of teaching, TESOL, and

reading. One course in each of the following subject areas must be completed prior to the awarding of the school counseling degree.

Courses that satisfy these requirements include:

Classroom Management & General Methods of Teaching:

EDG 5414 Teaching Environments: Instructional Strategies and Classroom Management

TESOL:

TSL 5361C TESOL for Secondary Teachers

Reading:

RED 4325/5339 Subject Related Reading

Students should seek academic advisement from the School Counseling Coordinator on enrollment in professional education courses.

Note: This program of study is subject to change at any time.

Graduation Requirements

Students entering this program on or after Fall 2001 must:

- Have overall GPA of 3.0
- Successfully demonstrate satisfactorily all Florida Educator Accomplished Practices
- Have a passing score on all sections of the Florida Teacher Certification Exam. Students who hold a Florida certificate received prior to July 1, 2002, are required to pass only the subject area exam. For students who do not hold a valid Florida certificate, are required to pass all sections of the test:
  - -Professional Education Exam
  - -Subject Area Exam in School Counseling
  - -General Knowledge Exam

Clinical Experiences

Application for clinical experiences for school counseling must have faculty advisor approval and be submitted to the School Counseling track coordinator by March 15 for a Fall placement, October 15 for a Spring semester placement.

Counselor Education: Clinical Mental Health Counseling Track (60 credits):

Students seeking admission to the track in Clinical Mental Health Counseling with an "out of field major" are required to successfully complete 9 hours of prerequisite psychology courses prior to acceptance. Out of field majors are students who do not hold a Bachelor's degree in Psychology (or a related field). The student should consult with an advisor with reference to these courses. Required prerequisite courses for "out of field" majors applying for admission to the graduate program in Clinical Mental Health Counseling include:

- An introductory course in Psychology (e.g., PSY 2012 Introduction to Psychology),
- A course in either:
  - Educational Psychology (e.g., EDP 3004 Educational Psychology), or
  - Abnormal Psychology (e.g., CLP 4146 Abnormal Psychology),
  - or Personality Theories (e.g., PPE 3003 Personality Theory), and
- A Research/Statistics course (e.g., STA 2122 Research-Statistics).

NOTE: The course numbers of the above prerequisite courses are those used at FIU. All prerequisite courses must be completed with a minimum grade of a "C" in each course and a cumulative grade point average of 3.0 or higher for all courses taken.

Counseling Core: (27)

EDP 6277	Human Development: Across the Lifespan	3
MHS 5340	Educational Vocational Counseling	3
MHS 5400	Counseling Skills and Techniques	3
MHS 6428	Cross Cultural Counseling	3
MHS 6511	Group Counseling	3
MHS 6630	Program Evaluation and Research in Counseling & School Psychology	3
MHS 6700	Ethical, Legal, and Professional Issues in Counseling	3
MHS 6802	Personality Theories	3

Specialization: (21)

MHS 6020	Foundations of Mental Health Counseling	3
MHS 6411	Counseling and Consultation in Community Settings	3
MHS 6427	Adult Psychopathology	3
MHS 6470	Human Sexuality Counseling	3
MHS 6450C	Substance Abuse Counseling	3
SDS 5460	Crisis Counseling and Interventions	3
SDS 6411	Counseling Children and Adolescents	3

Clinical Experiences: (12)

MHS 6800	Advanced Practicum in Counseling and Consultation	3
MHS 6820	Supervised Field Experience Counseling	9

Note: This program of study is subject to change at any time.

Clinical Experiences

Application for clinical experiences for mental health counseling must have faculty advisor approval and be submitted to the Counselor Education Programs Clinical Director by June 15 for a Fall placement, October 1 for a Spring semester placement, or March 1 for a Summer semester placement.

The students in the Clinical Mental Health Counseling track are required to take and pass all sections of the National Board of Certified Counselors, Counseling Preparation Competency Exam (CPCE). The CPCE is a requirement for graduation and is designed to assess counseling students' knowledge of counseling information viewed as important by counselor preparation programs. In the Clinical Mental Health Counseling Track, it is used by the faculty as a capstone experience to be completed by students prior to completing their practicum and before embarking on the internship experience.

Counselor Education: Rehabilitation Counseling Track (60 credits):

Counseling Core: (27)

EDP 6277	Human Development Across the Lifespan	3
MHS 5340	Educational-Vocational Counseling	3

MHS 5400	Counseling Skills and Techniques	3
MHS 6700	Ethical, Legal, & Professional Issues in Counseling	3
MHS 6802	Personality Theories	3

Specialization: (21)

MHS 6411	Advanced Counseling and Consultation in Community Settings	3
MHS 6427	Adult Psychopathology	3
MHS 6470	Human Sexuality Counseling	3
RCS 6031	Rehabilitation Counseling: Principles and Practices	3
RCS 6080	Medical Aspects of Disability	3
RCS 6245	Psychological/Sociological Aspects of Disability	3
RCS 6625	Service Delivery and Case Management In Rehabilitation Counseling	3

Note: This program of study is subject to change at any time.

Clinical Experiences

Application for clinical experiences for rehabilitation counseling must have faculty advisor approval and be submitted to the Counselor Education Programs Clinical Coordinator by June 15 for a Fall placement, October 1 for a Spring semester placement, or March 1 for a Summer semester placement.

Graduation Requirements

The students in the Rehabilitation Counseling track are required to take and pass the Certified Rehabilitation Counseling examination (CRCE). The CRCE is a requirement for graduation and is designed to assess rehabilitation counseling students' knowledge of information viewed as important by rehabilitation counselor preparation programs. This exam provides a national professional credential for the students as well as helps the Counselor Education program meet accreditation program evaluation needs.

Master of Science in Recreation and Sport Management

Degree Program Hours: 33

The graduate program in Recreation and Sport Management is planned to provide advanced preparation for management and supervisory level positions within a park, recreation, sport management, healthcare or recreational therapy services delivery system. The program includes electives which give flexibility regarding an individual's specific career goals as a future practitioner in parks, recreation, sport management or recreational therapy services. The Recreational Therapy track is designed to prepare direct service and administrative personnel engaged in recreational therapy service delivery.

Admission Requirements

To enter the program in Recreation and Sport Management, a student must have a 3.0 GPA for the last 60 hours of upper-division courses, a statement of career goals and aspirations, and three letters of professional recommendation, possess a bachelor's degree, and have appropriate* undergraduate preparation in parks, recreation, sport management or recreational therapy. Letters and any other supporting documents are to be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, BT 201 Miami, FL 33199.

*A student who did not complete a Parks, Recreation, Leisure, Sports, or Recreational Therapy oriented internship/field experience during his or her undergraduate degree curriculum will be required to take the following course during the course of study:

LEI 6922	Supervised Field Experience in Parks and Recreation Administration	3-6

Degree Program: (33)

Required Core: (12)

LEI 5510	Program Administration in Parks, Recreation and Sport	3
LEI 5595	Seminar in Parks, Recreation, and Sports Management	3
LEI 5605	Philosophical and Social bases of Parks and Recreation	3
	or	
PET 5256	Sociology of Sport	3
EDF 5481	Foundations of Ed. Research	3

***RT students are not required to take LEI 5595**

Select from one of the following two tracks:

Recreation and Sport Management Track: (12)

LEI 5907	Directed Study in Parks and Recreation Management	3
PET 5216	Sports Psychology	3
Advised Electives		6

Recreational Therapy Track: (12)**

LEI 5716	Program Planning in Recreational Therapy	3
LEI 6815	Advanced Recreational Therapy Facilitation Techniques	3
LEI 6726	Trends, Issues, and Managerial Aspects of Recreational Therapy	3
EDF 6472	Research Methods in Education: Introduction to Data Analysis	3

or approved research elective

Options to complete the degree:

Thesis Option: (3-6)

LEI 6970	Thesis: Therapeutic Recreation

Non-Thesis Option: (3-6)

****Corequisites for the Recreational Therapy Track:**
Individuals not currently certified at the professional level (CTRS) by the National Council for Therapeutic Recreation Certification will be required to take the following content courses for completion of the Therapeutic Recreation graduate curriculum:

Introduction to Recreational Therapy
Client Assessment, Documentation, and Evaluation in Recreational Therapy
Abnormal Psychology
Human Anatomy & Physiology
Human Growth and Development

Master of Science in Recreation and Sport Management- Recreational Therapy Track (Online)

Degree Program Hours: 33

The graduate program in Recreation and Sport Management is planned to provide advanced preparation for management and supervisory level positions within a park, recreation, sport management, healthcare or recreational therapy services delivery system. The program includes electives which give flexibility regarding an individual's specific career goals as a future practitioner in parks, recreation, sport management or recreational therapy services. The Recreational Therapy track is designed to prepare direct service and administrative personnel engaged in recreational therapy service delivery.

Admission Requirements

To enter the program in Recreation and Sport Management, a student must have a 3.0 GPA for the last 60 hours of upper-division courses, career goals and aspirations, and three letters of professional recommendation, possess a bachelor's degree, and have appropriate* undergraduate preparation in parks, recreation, sport management or recreational therapy. Letters and any other supporting documents are to be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, BT 201 Miami, FL 33199.

*A student who did not complete a Parks, Recreation, Leisure, Sports, or Recreational Therapy oriented internship/field experience during his or her undergraduate degree curriculum will be required to take the following course during the course of study:

LEI 6922	Supervised Field Experience in Parks and Recreation Administration	3-6

Degree Program: (33)

Required Core: (12)

LEI 5510	Program Administration in Parks, Recreation and Sport	3
LEI 5595	Seminar in Parks, Recreation, and Sports Management	3
LEI 5605	Philosophical and Social bases of Parks and Recreation	3
	or	
PET 5256	Sociology of Sport	3
EDF 5481	Foundations of Ed. Research	3

***RT students are not required to take LEI 5595**

Recreational Therapy Track: (15)**

LEI 5716	Program Planning in Recreational Therapy	3
LEI 6815	Advanced Recreational Therapy Facilitation Techniques	3
LEI 6726	Trends, Issues, and Managerial Aspects of Recreational Therapy	3
Advised Research Course		3
Advised Elective		3

Options to complete the degree:

Thesis Option: (3-6)

LEI 6970	Thesis: Therapeutic Recreation	3-6
	or	

Non-Thesis Option: (3-6)

LEI 5907	Directed Study in Parks and Recreation Management	3-6
Total Hours:		33

****Corequisites for the Recreational Therapy Track:**
Individuals not currently certified at the professional level (CTRS) by the National Council for Therapeutic Recreation Certification will be required to take the following content courses for completion of the Therapeutic Recreation graduate curriculum:

LEI 3703	Introduction to Recreational Therapy
LEI 4711	Client Assessment, Documentation, and Evaluation in Recreational Therapy
DEP 2000	Human Growth and Development: Introductory Developmental Psychology
CLP 4146	Abnormal Psychology
ZOO 3731	Human Anatomy
ZOO 3731L	Human Anatomy Demonstration
PCB 3703	Human Physiology I
	or
APK 3110	Exercise Physiology

*Students may transfer in a lower division section of Human Anatomy & Physiology in place of the above listed Anatomy and Physiology courses.

Combined BS/MS in Recreation and Sports Management: Recreational Therapy (RT) Track Degree Pathway

To be considered for admission to the combined Bachelor's/Master's degree pathway, student must have completed 75 credits in the Bachelor's degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the students starts the last 30 credits of the Bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their Bachelor's degree program. Upon conferral of the Bachelor's degree, students will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog may be applied toward both degrees.

Admission Requirements

1. Current enrollment in the Bachelor's degree program in Recreation and Sports Management, Recreational Therapy Track.
2. Completed at least 75 credits of coursework.
3. Current GPA of 3.2 or higher.
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 on the IELTS is required.

General Requirements

Recreational Therapy Track: (27)

The FIU Bachelor's degree in Recreation and Sports Management, Recreational Therapy Track, must be awarded before the Master's degree.

Degree Program: (33)

Required Core: (*12)

LEI 5510	Program Administration in Parks, Recreation and Sport	3

LEI 5605	Philosophical and Social Bases of Parks and Recreation Planning	3
	or	
PET 5256	Sociology of Sport	3
EDF 5481	Foundations of Educational Research	3

***RT Combined Degree Pathway & MS students are not required to take LEI 5595**

Required Courses: (18)

LEI 6726	Trends, Issues, and Managerial Aspects of Recreational Therapy	3
LEI 5716	Program Planning in Recreational Therapy	3
LEI 6815	Advanced Recreational Therapy Facilitation Techniques	3
LEI 6725	Administrative Aspects of Therapeutic Recreation	3
EDF 6472	Research Methods in Education: Introduction to Data Analysis	3
	or	
An approved graduate level research course		3
Advised Elective		3

Options to complete the degree:

Thesis Option: (3-6)

LEI 6970	Thesis: Therapeutic Recreation	3-6

Non-Thesis Option: (3-6)

LEI 5907	Directed Study in Parks and Recreation Management	3-6

Overlap

Nine (9) of the credits (LEI 6726, LEI 5716, LEI 6815) taken during their senior year will be graduate level courses in RT and will transfer into the master's degree program. An additional 3 graduate level credits can be transferred from the bachelor's to the master's portion of the program for a total of 12 credits applied to both degree programs.

*Although the BS/MS RT track combined degree, students accepted into this program may discontinue their education upon completion of the B.S. degree.

Educational Specialist in School Psychology

The program in School Psychology requires a minimum of 75 semester hours and leads to State of Florida certification as a specialist in School Psychology as well as educational requirements for private practice licensure. This program leads to the Educational Specialist Degree.

The competencies to be demonstrated by the student completing this program are derived from the following: behavioral/educational assessment and planning; counseling and home-school consultation and collaboration with teacher, parents, and school staff; crisis intervention; classroom interventions; liaison referral, program development and evaluation; in-service education; community outreach, and cultural responsiveness and social justice advocacy.

Admission Requirements

For admission into our program, students will be required to:

1. Submit all transcripts,
2. Have a 3.2 grade-point average in their last 60 semester hours of upper division coursework,
3. Have a minimum of 15 semester hours of credits in psychology, including research methods or statistics'
4. Submit a curriculum vitae/resume,
5. Write an autobiographical sketch (see website for instructions),
6. Submit a minimum of three letters of recommendation, preferably from faculty/professors
7. Submit a writing sample if deemed necessary, and
8. Participate in an interview with the admissions committee.

Not all candidates who meet these minimum criteria are accepted into the program.

Degree Hours: (75)

Psychological Foundations: (13)

SPS 7195	Child Psychopathology: Assessment and Intervention in the Schools	3
EDF 6211	Psychological Foundations of Education	3
EDP 6276	Human Development: Childhood and Adolescence	3
SPS 7176	Consultation and Assessment with Culturally and Linguistically Diverse Populations	3
MHS 6930	Special Topics in Counseling and School Psychology	1

Educational Foundations: (6)

EEX 5259	Literacy in Special Education	3
EDG 5414	Teaching Environments: Instructional Strategies and Classroom Management	3

Professional School Psychology: (3)

SPS 6805	Professional Problems in School Psychology	3

Assessment: (12)

SPS 6190	Academic Assessment and Intervention in the Schools	3
SPS 6191	Psycho-Educational Assessment I: Intellectual	3
SPS 6192	Psycho-Educational Assessment II: Process	3
SPS 6193	Psycho-Educational Assessment III: Behavior	3

Interventions: (15)

SPS 7407	Behavioral Interventions in the Schools	3
MHS 5400	Counseling Skills and Techniques	3
SDS 6411	Counseling Children and Adolescents	3
SDS 5460	Crisis Counseling and Intervention	3
SPS 6199	Family-School Consultation and Collaboration	3

Research and Measurement Methodology: (12)

EDF 5481	Foundations of Educational Research	3
EDF 6472	Introduction to Data Analysis	3
MHS 6910	Directed Study in Counseling and School Psychology	3
EDP 7058	Behavioral Intervention Research and Evaluation in Education	3

Supervised Field Experience: (14)

SPS 6941	Supervised Practicum in School Psychology	4

SPS 6678	Supervised Field Experience in School Psychology (1200 clock hours)	10

Co-requisites for Non-Education Majors:

Students who have an undergraduate degree in an area other than education must complete an additional 6 credits of professional education courses covering subject are reading competencies and TESOL. These courses are required to meet certification requirements in the state of Florida. Students who completed these certification courses at the undergraduate level will not be required to take them. Listed are the recommended courses:

Reading:

RED 5339	Subject Area in Reading

TESOL

TSL 5361C	TESOL for Secondary Teachers

The student is required to enter an internship in School Psychology under the supervision of a field based school psychologist for a period of 1200 clock hours. This internship is a full-time, eight hour day, five day week involvement and students entering the program should plan for it during the final stage of their training. At least 600 hours of the internship must be in a setting from kindergarten to grade 12 in a public school. Other approved internship experiences may include private state approved educational programs or other appropriate mental health-related programs or settings for the education of children and youth.

For students entering the program with a Master's degree in School Psychology or a related field, the Ed.S. program may accept a maximum of 27 credits, and must be approved by program faculty on an individual basis.

Graduation Requirements:

1. GPA of at least 3.0
2. Successful demonstration of the Florida Educator Accomplished Practices (FEAPs)
3. Passing the Florida Department of Subject Area Examination in School Psychology
4. Passing the Professional Education section of the Florida Teacher Certification Exam

Master of Science in Research Design and Analysis

Degree Program Hours: 30

The fully online M.S. in RDA program requires students to complete 30 credit hours that are sequentially structured over the course of 12 months. Each semester, students enroll in three or four core research methods courses, each covering research design, data collection, data analysis, graphing, and program analysis. In the last semester, students will gain hands-on research experience through conducting a research practicum to apply their learned knowledge and skills to specific research projects. With the research project, students will learn to organize the analysis outcomes and communicate with researchers and practitioners in other fields with colloquial language. In this way, RDA graduates will generate both research expertise and pragmatic experience which will serve them well as they transition to future employment.

Admission Requirements

The RDA master's program is designed to provide students with strong research design and analysis training for applied research settings. RDA master's degree will be an attractive graduate degree for students with a bachelor in various education, social sciences, and business fields.

RDA applicants are required to submit:

1. An online application to the Office of Graduate Admissions
2. Three letters of recommendation (at least one from an academic source)
3. An autobiographical statement

Candidates are admitted by the Department's Graduate Admission Committee's decision based on GPA scores in a bachelor's program, quality and source of letters of recommendation, and the candidate's career aspirations and goals.

An applicant must have a bachelor's degree from an accredited institution or international students from an institution comparable to or equivalent to U.S. degrees for further study at the graduate level. An applicant must have a GPA of 3.0 or higher for the last 60 hours of upper division of coursework. An applicant with less than a 3.0 GPA may be granted conditional admittance. These applicants must take 12 graduate credits and earn a 3.25 GPA to be considered for full admittance.

Degree Requirements

The RDA fully online master's program consists of 30 credit hours. Core courses make up 18 credit hours, and electives makes up 12 of the 30 credit hours.

Core RDA Courses (18 credits)

EDF 5481	Introduction to Educational Research	3
EDF 6472	Research Methods in Education: Introduction to Data Analysis	3
EDF 6475	Qualitative Foundations of Educational Research	3
EDF 6486	Advanced Analysis in Educational Research	3
EDF 6419	Application of Statistical Model to Education	3
EDF 6XXX	Research Practicum in Education	3

Elective RDA Courses 12 credits – Each cohort will complete four courses as specified by Program Director/Department Chairperson

EDF 5432	Measurement and Evaluation in Education	3
EDF 6425	Single-Subject Research Design in Education	3
EDF 6414	Introduction to Statistical Software in Education	3
EDF 6482	Application of Measurement and Assessment in Educational Research	3

Other elective courses approved by Program Director or Department Chair

Note: The following course structure allows students to start the degree in the spring and complete the degree within one year. It also uses the "A" and "B" elements of the semesters so students do not have to take all the courses

at once—instead students will have courses in condensed time periods throughout the year.

Semester 1 (4 courses: 12 credits): Spring

- Spring A: Introduction to Educational Research (EDF5481):
- Spring B: Research Methods in Education (EDF6472)
- Spring A: Single-Subject Research Design in Education (EDF6425)
- Spring B: Measurement and Evaluation in Education (EDF5432)

Semester 2 (3 courses: 9 credits): Summer

- Summer A: Advanced Analysis in Educational Research (EDF6486)
- Summer B: (EDF 6482) Application of Measurement and Assessment in Educational Research
- Summer C: Qualitative Foundations of Educational Research (EDF 6475)

Semester 3 (3 courses: 9 credits): Fall

- Fall A: Application of Statistical Model to Education (EDF6419)
- Fall B: Introduction to Statistical Software in Education (EDF 6414)
- Fall: Research Practicum in Education (EDF6XXX)

Graduation requirements: The students are expected to complete a minimum of 30 credit hours at the graduate-level while achieving a GPA of at a minimum of 3.0 and completion of all courses required by the program. A student must maintain an overall GPA of 3.0. No grade below "C" will be accepted.

Educational Policy Studies

Daniel Saunders, *Chair and Associate Professor, Higher Education*
Emily Anderson, *Assistant Professor*, *International/Intercultural Education*
Kirsten T. Edwards, *Associate Professor, Higher Education*
Norma M. Goonen, *Clinical Associate Professor, Higher Education*
Jessica Heybach, *Associate Professor, Educational Leadership*
Ethan Kolek, *Clinical Associate Professor, Higher Education*
Anindya Kundu, *Assistant Professor, Educational Leadership*
Ashley F. Kuntz, *Clinical Assistant Professor, Higher Education*
Hilary Landorf, *Associate Professor, International/Intercultural Education*
Amy Li, *Assistant Professor, Higher Education*
Maria Lovett, *Clinical Associate Professor, Urban Education*
Martha Meyer, *Teaching Professor, Urban Education*
Thomas G. Reio, Jr., *Professor, Adult Education and Human Resource Development*
Douglas Robertson, *Professor, Higher Education*
Tonette S. Rocco, *Professor, Adult Education and Human Resource Development*
Rebekah Schulze, *Clinical Associate Professor, Higher Education*

General Information

The Department of Educational Policy Studies offers programs and courses for students interested in working in a wide range of organizational, urban/ multicultural/ international contexts of education and training. Academic preparation focuses on such areas as educational leadership, urban education, management, psychology, policy development and analysis, adult education, human resource development, and higher education administration. In addition, the department provides the core undergraduate and graduate curricula in the historical, cultural, social, and philosophical foundations of education. The department is substantially directed towards granting master's and doctoral level degrees. Department faculty are recognized as national/international scholars, exemplify outstanding teaching practices, and are committed to taking a leadership role in the provision of professional services and the process of community engagement. They are worlds ahead in their commitment to serving their communities and maximizing student learning, engaging in the discovery and dissemination of new knowledge, and encouraging a creative and innovative spirit among our students. Community engagement plays a pivotal role in the programs and sponsored-research projects implemented through the department, where critical problems confronting our communities are identified and addressed.

The following pages describe the various graduate offerings in the department and the corresponding requirements. It should be noted that stated admission requirements are to be considered minimal. A student who meets these minimal requirements is not automatically assured admission. Program admission requirements are subject to change. It is the responsibility of the student to assure that he/she has met the requirements.

The Department of Educational Policy Studies offers the following degree programs:

Master's Degrees
Adult Education and Human Resource Development
Educational Leadership
Higher Education Administration
International and Intercultural Education
Urban Education

Educational Specialist Degree
Educational Leadership

Doctor of Education Degrees
Adult Education and Human Resource Development
Educational Leadership and Policy Studies

Doctor of Philosophy Degrees
Higher Education

Graduate Certificate Programs
Academic Advising
Educational Leadership

The department offers courses for persons who possess a baccalaureate or higher degree from an accredited institution of higher education and who seek State of Florida Certification in Education Leadership.

Master of Science in Adult Education and Human Resource Development

The M.S. in **Adult Education & Human Resource Development (AE & HRD)** program is designed for individuals who choose to serve as program coordinators, instructors, directors of non-profit agencies, community school administrators, and outreach professionals in workplace development, community and technical colleges. The program also prepares individuals to be trainers, organizational development specialists, instructional designers, human performance consultants, and/or researchers in human resource development.

This degree meets the requirements for the state certified program in Adult Education Administration (**http://www.fldoe.org/edcert/rules/6A-4-008.asp**).

This degree also covers the content for the American Society Training and Development "Certified Learning Professional" program.

Admission Requirements

1. A bachelor's degree from an accredited institution and a minimum GPA of 3.0 or better on a 4.0 scale for the last 60 credits of upper-division undergraduate coursework;
2. A statement of intent, 500 words or less, describing (a) the applicant's personal and professional goals and how the degree program will enable the accomplishment of these goals and (b) the ways in which the applicant will be an asset to the program;

3. Complete and current résumé listing educational and professional preparation and employment background; and
4. Two letters of recommendation from individuals who can knowledgeably assess and describe the applicant's leadership potential and ability to perform graduate-level work. At least one reference must be from an academic source such as a former professor. Official test scores and official transcripts are to be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, BT 201 Miami, FL 33199. Letters and other supporting documents are to be uploaded into the on-line application for admission.

Program of Study

The M.S. in AE & HRD program consists of 36 hours, with 33 hours of professional emphasis courses in the AE & HRD program area and 3 hours of research methods.

Required Program: (36 hours minimum)

ADE 5386	Individual and Adult Education	3
ADE 6186	Comprehensive Program Evaluation in AE&HRD	3
ADE 6195	Perspectives on Adults with Disabilities (cross-listed with LBS 5155)	3
ADE 6260	Management of AE&HRD Programs	3
ADE 6360	Adult Teaching Methods	3
ADE 6945	Internship in AE&HRD	3
EDF 5481	Foundations of Educational Research	3
ADE 6476	Computer Based Training	3
ADE 5383	Instructional Analysis and Design	3
ADE 6286	Instructional Development and Implementation	3
ADE 5387	Organizational Learning and Human Resource Development	3
and		
ADE 7571	Consulting as an AE&HRD Process	3
or		
ADE 6180	Organizational/Community Processes	3

Note: The GRE is not a requirement for admission into the M.S. in Adult Education and Human Resource Development Program.

Master of Science in Educational Leadership

The Master of Science (M.S.) degree program in Educational Leadership comprises courses and experiences designed to develop entry level competencies in the practice of educational leadership. The program incorporates coursework that constitutes the "modified Florida program in educational leadership" at Florida International University and addresses the competencies assessed in the Florida Educational Leadership Examination. The program may be used to satisfy part of the requirements of the Florida Department of Education for state certification in Educational Leadership.

Admission Requirements

Admission to the program is based on the following criteria:

1. A baccalaureate degree and a grade point average of at least 3.0 (on 4.0 scale) in the last 60 semester hours of undergraduate coursework;
2. At least three years of successful full-time teaching experience prior to application for admission to the program;
3. Two letters of recommendation from individuals who can comment on the applicant's leadership potential and qualifications for successfully participating in the program;
4. A current resume (curriculum vitae), including education, professional preparation, and employment history;
5. A brief written statement (approximately 250 words) articulating the applicant's professional career goals and aspirations; and
6. Evidence of having satisfied the ESOL requirements of the State of Florida. (Otherwise, a student will be required to satisfy this requirement prior to completion of the program.
7. Letters and any other supporting documents are to be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, BT 201, FL 33199.

Program of Study

The program of study (13 courses/39 semester hours) is as follows:

EDA 6061	Introduction to Educational Leadership	3
EDA 6192	Leadership in Education	3
EDA 6195	Communication in Educational Leadership	3
EDA 6232	School Law	3
EDA 6242	School Finance	3
EDA 6271	Administering Educational Technology	3
EDA 6930	Seminar in Educational Leadership	3
EDF 5481	Foundations of Educational Research	3
EDA 6222	School Personnel Administration	3
EDF 6608	Social, Philosophical and Historical Foundations of Education	3
EDF 6211	Psychological Foundations of Education	3
EDA 6503	Instructional Leadership	3
EDA 6943	Administrative Internship*	3

*Successful completion of this course requires passing all sub-tests of the Florida Educational Leadership Examination (FELE). Evidence of passing the exam must be provided by the student no later than the last week of the semester in which the student plans to graduate.

In addition to the successful completion of the program's coursework, a student will be required to present evidence of having passed all sub-tests of the FELE and satisfied the ESOL requirements that demonstrate mastery of the four ESOL standards required of school administrators.

Master of Science in Higher Education Administration

The Master of Science in Higher Education Administration at Florida International University prepares graduates to understand the shifting landscape of higher education, how colleges and universities function, and the experiences of various constituent groups at institutions (e.g., students, staff, faculty). The Higher Education program at FIU has an explicit commitment to approaching the study of higher education with a focus on minoritized populations and guided by a theory-to-practice philosophy. Those who enroll at FIU should expect to engage in

applied and research-informed conversations on higher education with a specific attention to how different institutional types, including Hispanic-Serving Institutions, serve their populations. Graduates from the M.S. Higher Education program can go on to take on roles at colleges and universities in academic and student affairs, as well as in positions within organizations that seek to build partnerships with higher education institutions and college students.

Admission Requirements

1. A baccalaureate degree and an undergraduate GPA of 3.0 in the last 60 credit hours of upper-division undergraduate study;
2. Work experience in higher education such as community college or student affairs areas is preferred but not required;
3. Two (2) letters of recommendation;
4. Personal statement;
5. Resume.
6. Letters and any other supporting documents are to be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, BT 201 Miami, FL 33199.

Note: The GRE is not a requirement for admission into the M.S. in Higher Education Administration program.

Program Requirements: (36 semester hours)

Professional Studies: (9 hrs)

EDF 5481	Foundations of Educational Research
EDH 6045	College Student Development Theory

Choice of:

EDF 6608	Social, Philosophical and Historical Foundations of Education
	or
EDF 6636	Intercultural Studies: A Qualitative and Quantitative Analysis

Required Courses: (15 hrs)

EDH 6633	Introduction to Higher Education Administration
EDH 6061	History of Higher Education
EDH 6404	Legal Issues in Higher Education Administration
EDH 6943	Practicum in Higher Education

Choice of:

EDH 6047	College Student Life and Culture
	or
EDH 6055	Access and Choice in US Higher Education

Electives: (12 hrs)

Students will select a set of electives to meet their educational and professional interests. Selection of electives can include a concentration in a particular area of higher education as well as provide a breadth of knowledge about the field.

Required Courses

The required courses reflect the range of basic knowledge common to all higher education professionals. Whatever the job function, it is imperative that university professionals know the law, be aware of current issues, be sensitive to the diversity of student culture and understand the core functions of administration.

Electives

Electives are designed to allow students to choose a path of study that reflects their immediate career goals, while maintaining program coherence. There are opportunities for electives at the student's discretion, as long as they are graduate level courses (5000 level or above).

Practicum Experiences

A professional degree in university administration should allow for some guided practical experience. The practicum sections allow students the opportunity to earn credit while gaining valuable hands-on experience in a variety of administrative areas. Practicum sections will include an academic component designed by the Higher Education faculty and the section supervisor.

The graduation requirements include successful completion of the above required program of study.

Master of Science in International and Intercultural Education

The Master of Science degree in International and Intercultural Education (IIE) at FIU is uniquely designed to provide graduate training to students interested in understanding the processes of globalization, the global environment, and the responsibilities of citizenship in an increasingly interdependent world. The program places emphasis on training in cross-cultural communication and exchange, international development, and educational practice in a global context.

Our program includes face-to-face, hybrid, and fully-online courses. These courses provide research and analytical skills to enable students to define, gather, analyze and evaluate data for project management and decision-making. Applied courses are designed to provide the professional competencies for academic research, teaching and administration, and employment in foundations, non-governmental organizations, governmental institutions, businesses and corporations. Our students have worked in several countries and regions such as Spain, Andorra, South Korea, the Caribbean, Africa, Latin America, Germany, and the U.S. in a range of capacities including: K-12 social science teachers, ESL teachers in the U.S. and abroad, international education credential experts, and international education study abroad program directors. Some of our Master's students hold graduate assistantships in the School of Education as well as undertake internships across campus in various departments.

Admission Requirements

To be admitted into the Master's degree program in International and Intercultural Education (IIE), a student must have (a) a bachelor's degree from an accredited U.S. institution or its equivalent for international students, (b) a 3.0 GPA or higher for the last 60 hours of upper-division coursework, (c) three letters of recommendation, and (d) an autobiographical statement. Letters and other supporting documents should be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, BT 201 Miami, FL 33199.

Note: The GRE is not a requirement for admission into the M.S. in International / Intercultural Education program.

Degree Requirements

The Master's program requires the completion of a minimum of 33 semester hours of course work at the graduate level with a 3.0 GPA. A maximum of six semester hours of graduate work may be transferred to the program from other universities. The 33 semester hours are to be completed in accordance with the program curriculum.

Required Program: (33 minimum)

The IIE program blends together theoretical foundations and methodological perspectives. Graduate students are exposed to the role of the social, political, economic, scientific and cultural sectors in education worldwide. Research and analytical skills are provided to insure student's ability to define, gather, analyze and evaluate data for project management and decision-making. Applied courses are designed to provide the professional competencies for academic research, teaching and administration, and employment in foundations, non-governmental organizations, governmental institutions, businesses and corporations.

Foundations of International and Intercultural Education: (12)

EDF 5481	Foundations of Educational Research	3
EDF 6850	Comprehensive Internationalization: Practices and Applications	3

One course on teaching and learning (3):

ADE 5386	Individual Learning and Adult Education	3
TSL 5245	Developing ESOL Language and Literacy	3
SSE 5381	Developing a Global Perspective	3

One course on the Social and Psychological Foundations of Education (3):

EDF 6608	Social, Philosophical and Historical Foundations of Education	3
EDF 6211	Psychological Foundations of Education	3

International and Intercultural Education Core: (6)

EDF 6852	Educational Development Issues in Context: A Multidisciplinary Perspective	3
EDF 6658	Selected Topics: International Development Education, Current Policy Issues and Problems	3

GeoCultural Area: (3)

The purpose of this requirement is to give the student a foundation in the culture, politics, and history of an area or region. The student will select one course that relates to his/her geo-cultural interest. Any upper level course (5000 level or above) in an area of the world is eligible. Course must be approved by the student's advisor.

Policy: (3)

This course is selected in consultation with the advisor from the School of Education. Possible courses include:

EDH 7401	Higher Education and Public Policy	3
EDA 7288	Politics of Education (must be taken with EDA 7069 Educational Policy)	3
EDG 7692C	Politics of Curriculum	3
EDF 7656	Comparative and International Education Policy	3

Area of Interest: (9 hours)

Students in IIE go into a number of areas for work and study. Primary among these are Internationalization and Intercultural Studies, International and Comparative Education, and Globalization, Development, and Sustainability. The areas of interest courses are designed to allow students to develop their area of concentration. To complete this requirement, students must choose one area of interest and take three courses selected in consultation with and approved by the advisor. Examples include:

1. Internationalization and Intercultural Studies

EDF 5851	Socio/Cultural Conflict in Educational Change	3
EDF 5880	Intercultural Education: National and International Perspectives	3
EDF 6636	Intercultural Studies: A Qualitative and Quantitative Analysis	3
EDF 6365	Cultural Identities and Conflict	3
EDG 5707	Cross-Cultural Studies in Education	3
RLG 5106	Religions, Latinos/as and Immigration	3

2. International and Comparative Education

EDF 5812	National Educational Systems: A Comparative Analysis	3
EDF 5820	Latin American Education	3
EDF 7656	Comparative and International Education Policy	3
EDF 6906	Directed Study in International Development Education	3
ANG 6303	Comparative Feminisms	3

3. Globalization, Development, and Sustainability

EVR 5320	Environmental Resource Management	3
INR 5036	Politics of Globalization	3
SYD 6236	International Migration and Refugees	3
EDF 7937	Advanced Topics in Social Foundations of Education	3
EDF 6766	Education, the Environment, and Sustainable Futures	3

Master of Science in Urban Education

The Master of Science in Urban Education is designed for educators and other professionals who are interested in addressing issues in urban settings and schools and who want to clarify their understanding of theoretical foundations, engage in critical dialogue, and broaden their expertise in action research. This degree emphasizes a social justice theoretical foundation and draws on the belief that students become reflective professionals by developing an understanding of formal and informal education within diverse sociocultural, linguistic, political, and economic contexts. The curriculum requires candidates to produce an Action Research or community-based research project related to justice-oriented urban education. Students will cultivate knowledge and skills to advocate for children and communities both locally and globally. The Master's program requires the completion of 30 semester hours of course work at the graduate level with a minimum 3.0 GPA. A maximum of six graduate hours may be transferred from another institution, upon approval from an advisor. The program offers instructional and foundational-areas of concentration from which students can select.

Admission Requirements

A decision on admission to the Master's degree in Urban Education is based on consideration of the following student criteria:

1. Have a 3.0 GPA for the last 60 hours of upper-division coursework;
2. Complete an interview with program faculty;
3. Submit an autobiographical statement;
4. Submit a letter of intent describing why this particular degree is of interest, and;
5. Submit three letters of recommendation from individuals (academic and professional sources) who can assess and describe the applicant's qualifications and ability to perform graduate level work.
6. Letters and any other supporting documents are to be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, BT 201 Miami, FL 33199.

Note: The GRE is not a requirement for admission into the M.S. in Urban Education program.

Program of Studies

Urban Education Studies Core: (9)

Required (6):

EDF 6608	Social, Philosophical, and Historical Foundations of Education	3
EDF 6689	Contemporary Issues in Urban Education	3

Choose one of the following (3):

EDF 6211	Psychological Foundations of Education	3
EDG 5707	Cultural/Cross-Cultural Studies in Education	3
EDF 6684	Building a Home School Community Partnerships in a Context of Justice and Civic Engagement	3

Action Research Core: (6)

EDF 5481	Foundations of Educational Research	3
EDF 6487	Action Research for Educators	3

Areas of Concentration: (15)

The Areas of Concentration within the Urban Education degree allow the candidates the opportunity to critically examine and deepen their understanding of related content. These areas are designed to allow students to choose a path of study that reflects their immediate career goals while maintaining program coherence.

TESOL Concentration

This area of concentration develops the skills of educators to work with linguistically and culturally diverse populations.

EDG 5707	Cultural/Cross-Cultural Studies in Education	3
TSL 5142	Curriculum Development in TESOL	3
TSL 5245	Developing ESOL Language and Literacy	3
TSL 5371	Special Methods of TESOL	3
TSL 5938	Principles of ESOL Testing	3

Bilingual Concentration

This area of concentration equips educators with theoretical background and practical skills to work in teaching environments that promote language development in two or more languages.

Required Courses: (9)

FLE 5895	Bilingual Education Teaching Methodologies	3
FLE 6938	Seminar in Second Language Testing	3
EDG 5707	Cultural/Cross-Cultural Studies in Education	3

Electives: (6)

One (1) of the following:

TSL 6348	Task-Based Language Teaching	3
TSL 5142	Curriculum Development in TESOL	3
TSL 6925	Special Topics in Second Language Education (Curriculum Development in the Spanish Language Classroom)	3

and

One (1) of the following:

SPN 5736	Spanish as a Heritage Language: Acquisition and Development	3
LIN 5625	Studies in Bilingualism	3

*For those students interested in the Bilingual Graduate Certificate, course modification may be made with advisor approval.

Instruction Concentration

This area of concentration emphasizes the deeper development of pedagogical practices that encourages candidates to advocate for children in urban settings.

Required Courses: (6)

EDG 5325	Analysis of Teaching	3
EDG 5707	Cultural/Cross-Cultural Studies in Education	3
Advisor approved content area or elective courses		9

Community Engagement

This area of concentration allows candidates to explore urban education from a broader theoretical perspective. Candidates can design their program of study in consultation with their advisor.

EDE 5267	Education of the Child in Urban Society	3
EDF 5851	Socio/Cultural Conflict in Education	3
EDF 6850	Comprehensive Internationalization: Practices and Applications	3
EDF 6852	Educational Development Issues in Context: A Multidisciplinary Perspective	3
EDF 6658	Selected Topics in International Development Education: Current Policy Issues and Problems	3
EDF 6689	Contemporary Issues in Urban Education	3
EDG 6627	Seminar: Issues and Trends in Curriculum and Instruction	3
EME 6405	Computers in the Classroom	3

or

Advisor approved courses for this area of concentration

Educational Specialist in Educational Leadership

The Educational Specialist (Ed.S.) degree program in Educational Leadership is intended to provide professional educators with an opportunity to develop competencies in areas of special needs and interests in the field of Educational Administration/Leadership. Consequently, there are few required courses and each student's program is individually planned in consultation with a faculty advisor. The program may be used to satisfy part

of the requirements of the Florida Department of Education for state certification in Educational Leadership.

Admission Requirements

Admission to the program is based on the following criteria:

1. A master's degree (or equivalent) and a grade point average of at least 3.25 (on 4.0 scale);
2. At least three years of successful full-time teaching experience prior to application for admission to the program;
3. Two letters of recommendation from individuals who can comment on the applicant's leadership potential and qualifications for successfully participating in the program;
4. A current resume (curriculum vitae), including education, professional preparation, and employment history;
5. A brief written statement (approximately 250 words) articulating the applicant's professional career goals and aspirations; and
6. Evidence of having satisfied the ESOL requirements of the State of Florida. (Otherwise, a student will be required to satisfy this requirement prior to completion of the program.)
7. Letters and any other supporting documents are to be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, BT 201 Miami, FL 33199.

Program of Study

The program of study comprises a minimum of 39 semester hours and is planned in consultation with and approved by a faculty advisor. The structure of the program is as follows:

EDA 6061	Introduction to Educational Leadership	3
EDF 6608	Social, Philosophical and Historical Foundations of Education	3
EDF 6211	Psychological Foundation of Education	3
Guided electives in Educational Administration/Leadership		24
Guided electives in Research/Statistics/Measurement and Evaluation		6

In addition to the successful completion of the program's coursework, a student will be required to present evidence of having passed all sub-tests of the FELE and satisfied the ESOL requirements that demonstrate mastery of the ESOL standards required of school administrators.

Doctor of Education Programs

Common Minimum Admission Requirements

The School of Education has common admission requirements for its doctoral programs regardless of the specialty sought. Applicants to the program must submit the following records and documents to the Office of Graduate Admissions:

1. A completed online application for Graduate Admission with appropriate fees.
2. An official copy of the Graduate Record Exam (GRE) scores.
3. Official transcripts of all higher education institutions attended.
4. Three letters of reference attesting to the applicant's ability to succeed in doctoral study.
5. A current resume/vitae.
6. A statement that sets forth the applicant's career goals and relates these goals to the completion of the doctoral program.
7. Letters and any other supporting documents are to be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, BT 201 Miami, FL 33199.

No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing.

The application and all supporting documentation are reviewed by program faculty. The criteria applied in reviewing the applicant's file are noted below. Exceptions to one or more of the stated criteria may be granted provided the applicant can provide compelling reasons and evidence.

1. A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate work.
2. A 3.25 GPA in all graduate work attempted.
3. A master's degree from an accredited institution, A bachelor's degree from an accredited institution may be accepted for Admission.
4. Official GRE scores.
5. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Upon completion of the review of the file the applicant will be interviewed by program and departmental faculty which comprise a Faculty Admissions Committee. Final decisions are made by the Faculty Admissions Committee and the Dean of the College. As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. A candidate for admission to the program will be judged not only on the basis of quantitative criteria (listed elsewhere in this catalog) but also in relation to prior experience, especially as it relates to future career goals. Additional information is available from the individual program faculty.

Professional Education Core

EDF 7937	Advanced Topics in the Social Foundations of Education	3
EDP 7057	Educational Psychology: Advanced Applications	3

All doctoral students must enroll in EDF 7937 within their first year of admission.

Research and Statistics Core (9 hours minimum)

A research requirement of nine semester hours, taken in the order listed, is common to all School of Education doctoral programs.

EDF 6472	Research Methods in Education: Introduction to Data Analysis	3
EDF 6486	Advanced Data Analysis in Quantitative Educational Research[1]	3

[1]Prerequisite: EDF 5481 and EDF 6472.

And one of the following:

EDF 7403	Quantitative Foundations of Educational Research	3
	or	
EDF 6475	Qualitative Foundations of Educational Research	3

Candidacy Examinations and Advancement to Candidacy

The student must complete all coursework, successfully pass both written and oral candidacy examinations covering course work and also submit copies of a dissertation proposal, which has been approved by the supervisory committee, to the Dean of the College and to the Dean of the University Graduate School.

Program Core (24-36 hours minimum)
Advised Electives
Dissertation: (15 hours minimum)

The student is responsible for a minimum of 15 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge. The doctoral dissertation is the final component of the series of academic experiences that culminate in the awarding of the Ed.D. degree. A successful dissertation is a demonstration of the candidate's ability to use the tools and methods of basic and/or applied research in the field, to organize the findings, and to report them in a literate, logical, and compelling fashion.

The student is expected to complete the dissertation within five (5) years from the date of advancement to candidacy (i.e. successful completion of all written and oral examinations, and favorable recommendations of the supervisory and guidance committee). A minimum of six credit hours of dissertation is to be undertaken each semester while the dissertation is being prepared. Continuous enrollment in dissertation study is required (including summer semesters).

Adult Education and Human Resource Development (AE/HRD)

The doctoral program in Adult Education and Human Resource Development (AE/HRD) prepares advanced professionals to facilitate individual, organizational, and career development and advancement of adults in the nation and the world. Two cognate options are available within the doctoral program in Adult Education and Human Resource Development. The first option is an open cognate custom designed for the student's research needs. The second option is a directed cognate in one of six areas: (1) International and Intercultural Education, (2) Labor Studies, (3) Urban Education, (4) Entrepreneurship, (5) Hospitality and Tourism Management, and (6) Recreation and Sport Management.

Graduates are equipped to administer, design and facilitate programs for adult clients, employees, volunteers, students, and associates of profit and not-profit organizations. Graduates are professionals who may be engaged in program development and evaluation, planning, policy development and analysis, leadership, instruction and training, counseling and advisement, consultation, and marketing and recruitment activities designed to further the growth and development of adult learners. They may also be engaged in improving organizational functioning through educationally-related intervention strategies or working with other performance improvement consultants. Graduates are competent researchers and scholars with problem solving and investigative skills in evaluation, qualitative, and quantitative methods.

Participants in the Adult Education and Human Resource Development doctoral program and its affiliated cognates come from diverse backgrounds: business and industry; higher education; public and proprietary schools; health and social services agencies; law enforcement and corrections; the military, government, and non-governmental agencies; religious organizations; libraries and museums; and civic and professional associations.

The Doctor of Education degree is conferred on the basis of high scholarship and skill in the creation and application of knowledge from theory and research findings to practical problems in adult education and/or human resource development. Applications for admission to the doctoral program are invited from individuals who are highly motivated and intellectually capable of meeting the challenges of a rigorous doctoral degree program.

Additional Admission Requirements

In addition to the University's and the School of Education's common minimum admission requirements, applicants must possess the following qualifications:

1. Evidence of commitment to a career in the broad field of adult education and human resource development;
2. Successful professional experience in one or more of the above fields;
3. Potential for leadership in the above fields; and
4. A master's degree.
5. Applicants must arrange individual interviews with each faculty member in the program to discuss the applicant's research interests and the faculty member's research.

Candidates for admission to the programs will be judged not only on the basis of quantitative criteria (e.g., GPA, as listed elsewhere in this catalog) but also in terms of prior experience and future career goals.

Adult Education and Human Resource Development Program of Study

A typical program will require a minimum of 93 semester hours beyond the baccalaureate degree and will involve the categories of courses noted below.

Adult Education and Human Resource Development Program Core: **(minimum 18 - 24 hours)**

The adult education and human resource development core includes courses in areas such as comprehensive adult education and human resource development planning, program development, instructional design, adult teaching and learning, trends and issues, strategies, and research in the disciplines. For students with a master's in Adult Education or Human Resource Development, the minimum is 18 semester hours. For students whose master's is not in Adult Education or Human Resource Development, the minimum is 24 hours.

ADE 6074	Writing for Publication in Adult Education and Human Resource Development	3
ADE 6186	Comprehensive Program Evaluation in AE/HRD	3
ADE 6360	Adult Teaching Methods	3
ADE 6674	Trends and Issues in AE/HRD	3
ADE 7920	Colloquium in AE/HRD	1-6
ADE 7772	Review of Research in Adult Education and Human Resource Development	3

Will be required only if master's degree is not in Adult Education and Human Resource Development or related filed:

ADE 5386	Individual Learning and Adult Education	3
ADE 5387	Organizational Learning and Human Resource Development	3

Research and Statistics: **(minimum 15 hours)**
Although some courses are required for all doctoral participants, others are selected with the guidance of the participant's program of studies supervisory committee.

Required Courses

EDF 5481	Foundations of Educational Research *(Required only if not taken in Master's program as prerequisite)*	3
EDF 6472	Research Methods in Education: Introduction to Data Analysis	3
EDF 6475	Qualitative Foundations of Educational Research	3
EDF 6481	Educational Research Methodology	3
EDF 6486	Advanced Data Analysis in Quantitative Educational Research	3

And either

EDF 7403C	Data Analysis in Multivariate Educational Research	3
	or	
EDF 7476	Advanced Methods of Qualitative Educational Research	3
	or	
EDP 7058	Behavioral Intervention Research and Evaluation in Education	3

Cognate: **(9 semester hours minimum; 18 recommended)**
Electives, in the cognate area, vary according to the participants' background and professional goals and are selected with the guidance of the participants' program of studies supervisory committee.

Two cognate options are available:

1. The first option is an open cognate custom designed by the committee and the student.
2. The second option is a directed cognate in one of six areas: (1) International and Intercultural Education, (2) Labor Studies, (3) Urban Education, (4) Entrepreneurship, (5) Hospitality and Tourism Management, and (6) Recreation and Sport Management.

International and Intercultural Education Program Cognate (recommended 18-24 credit hours)
Courses include areas such as educational systems, comparative methodology, educational development issues, intercultural & cross-cultural education, conflict theory and resolution, planning in education, educational technology transfer, knowledge and development, education organizational behavior, international organizations and NGOs, and social, psychological and political contexts of international education.

Labor Studies Program Cognate (recommended 18-24 credit hours)
Courses include areas such as conflict resolutions, labor movements, workers' rights, workplace diversity, economic development, and employment law.

Urban Education Program Cognate (recommended 18-24 credit hours)
Courses include areas such as urban adult education activities, economic development, workforce development, and equitable educational, living, and workplace conditions special urban populations, family literacy, and immigration.

Entrepreneurship Cognate (recommended 18 credit hours for certificate)
Courses include areas such as product development and innovation, intuition in management, social and non-profit entrepreneurship, and organization in management.

Hospitality and Tourism Management Cognate (recommended 18-24 credit hours)
Courses include areas such as organizational behavior in the hospitality industry, feasibility studies in the hospitality industry, tourism studies, leadership training for team building, and hospitality management.

Recreation and Sport Management Cognate (recommended 18-24 credit hours)
Courses include recreational therapy (RT) topic areas such as problems, issues and trends; philosophical and social foundations; assessment, documentation, and evaluation; program planning; law and liability, leisure services; and related core courses in recreation and sports management.

Prospectus and Dissertation: **(15 semester hours minimum)**
Participants are responsible for a minimum of 15 semester hours of dissertation credits. The dissertation must be an original contribution to knowledge in an area of adult education or human resource development. Students are expected to complete the dissertation within nine years from their date of admission to the Adult Education and Human Resource Development doctoral program. A minimum of three credit hours of dissertation are to be undertaken each term the dissertation is being prepared. Continuous enrollment in dissertation study is required, including summer terms.

Educational Leadership and Policy Studies

The Doctor of Education (Ed.D.) program in Educational Leadership and Policy Studies is designed for students who wish to pursue leadership roles in educational institutions. The program of studies prepares students for careers as school superintendents, principals, directors and supervisors; administrators in state, federal, and international agencies; professors of Educational Administration or Leadership; and administrators in institutions of higher education.

The curriculum is designed to enable students to become familiar with and utilize effectively both theoretical and technical knowledge. The program of study is multidisciplinary and integrates broad intellectual perspectives into the study and practice of Educational Leadership and Policy Studies.

For students interested in the Higher Education Administration Track in Educational Leadership and Policy Studies, see "Higher Education Administration Track" in this catalog.

Additional Admission Requirements

In addition to the common admission requirements for doctoral programs in the School of Education, an applicant must:

1. Provide evidence of at least three years of successful and appropriate professional experience.
2. Engage in an interview with a committee of program faculty.
3. Receive a positive endorsement of the program faculty.

Because they differ, for admissions requirements for the Higher Education Administration Track in Educational Leadership and Policy Studies, see "Higher Education Administration Track" in this catalog.

Program of Study

The program requires the completion of a minimum of 75 semester hours of academic work beyond the baccalaureate degree. Program requirements include the following:

Educational Administration and Leadership Core: (12)

EDA 7069	Educational Policy	3
EDA 7103	Theories of Educational Administration	3
EDA 7233	Ethics and Educational Leadership	3
EDA 7288	Politics of Education	3

Cognate or Minor Area (12)

The cognate area requires a minimum of 12 semester hours of course work. The courses should be chosen with regard to coherence and relevance to the anticipated substantive aspect of the dissertation and in consultation with the student's advisor. The cognate may be used as an extension of expertise in the major and courses may be taken at any academic unit at the university.

Professional Education Core: (6)

EDF 7937	Advanced Topics in the Social Foundations of Education	3
EDP 7057	Educational Psychology: Advanced Applications	3

Research and Statistics Core: (12)

EDF 6472	Research Methods in Education: Introduction to Data Analysis	3
EDF 6486	Advanced Data Analysis in Quantitative Educational Research	3
EDF 6475	Qualitative Foundations of Educational Research	3
And one other advisor approved research course		3

Note: Evidence of completion of a graduate-level research course (e.g., EDF 5481) or equivalent at FIU or at another accredited institution is required before starting the Research Core.

Doctoral Dissertation (EDA 7980): 15 hours minimum

The student is responsible for a minimum of 12 semester hours of dissertation credits. All doctoral students must be continuously enrolled in a minimum of three (3) dissertation credits each term following advancement to candidacy until graduation. A candidate for the doctorate in Educational Leadership and Policy Studies is required to prepare and present for faculty approval a doctoral dissertation that demonstrates a capacity for independent thought and for the application of the tools and methods of research to educational issues and problems.

Higher Education Administration Track

Program Description/Goals

Much like the general Doctor or Education in Educational Leadership and Policy Studies, the program culminating in the Doctor of Education in Educational Leadership and Policy Studies - Higher Education Administration Track is designed to provide the opportunity for students to enhance analytical skills for solving problems in educational institutions. The primary difference from the general doctoral degree is that the Higher Education Administration Track is designed to prepare practitioners specifically in the field of higher education, both nationally and internationally, who will become important leaders in private and public postsecondary institutions and be able to apply evidence-based practices to improve higher-education outcomes.

The Track's program requirements include a minimum of 75 graduate credits. Students must enter the program with a master's degree and can transfer up to 36 graduate-level credits into the Ed.D. program. Thus, students must complete a minimum of 39 credits at the doctoral level at FIU.

Upon successful completion of the Ed.D., we expect each graduate will be able to:

- Promote the improvement of higher education.
- Apply scholarly research for evidence-based practice.
- Provide leadership by applying advanced theoretical and methodological perspectives problems in higher education.

While the program is designed for the working professional, students will be expected to devote significant time to the required coursework and the research necessary to successfully complete an applied dissertation (see "The Applied Dissertation" below). The program is structured in cohort format, and students are expected to finish in three years (see "Program of Study" below).

Admissions Requirements

Admission to the program is only the Fall term. The deadline for an application to be submitted is February 15.

Applicants to the program must submit the following records and documents to the Office of Graduate Admissions:

1. A completed online application for Graduate Admission with appropriate fees;
2. An official copy of the Graduate Record Exam (GRE) scores;
3. Official transcripts of all higher education institutions attended;
4. A Master's Degree in Higher Education or related field;
5. Three letters of reference attesting to the applicant's ability to succeed in doctoral study;
6. A current resume/vitae;
7. A statement setting forth the applicant's career goals and relates these goals to the completion of the doctoral program; and
8. A writing sample illustrating academic writing skills (e.g., paper submitted for academic credit; professional report using research);

9. Statement of support from supervisor (if applicant intends on being employed while in the program).

No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing.

Admission into the program will be based on the criteria noted below. Exceptions to one or more of the stated criteria may be granted on the basis of other compelling evidence that the applicant is likely to be successful in this doctoral program.

1. A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate credits;
2. A cumulative 3.25 GPA in completed graduate work.
3. There is no minimum requirement for the GRE. However, candidates are advised that low combined scores can result in denial of the application.
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
5. The evidence from the writing sample that the applicant can perform doctoral-level work. • Professional experience (other than a graduate assistantship) in a college or university is highly preferred.
6. A possible interview with the Program faculty.

Members of the program's graduate faculty will constitute the Doctoral Admissions Committee, which will review the application and all supporting documentation. Upon completion of the review of the applicant's file and the interview, the Doctoral Admissions Committee will make recommendations for acceptance or rejection to the University Graduate School.
As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. A candidate for admission to the program will be judged not only on the basis of quantitative criteria (e.g., GRE and GPA), but also in relation to prior experience, especially as it relates to future career goals. Additional information is available from the individual program faculty.

The Applied Dissertation
Doctoral students will enter the program as a cohort and engage in a prolonged study of a critical problem or concern in higher education, selected for each cohort by the program's faculty, culminating in an applied dissertation that offers a solution(s) for this problem. This problem will thus become the underlying focus of all coursework and the dissertation research. The program is designed to be completed in three years.
During the first year in the program, students will examine the articulated problem in order to identify underlying causes and associated factors via a variety of courses intended to approach problems from different theoretical and methodological perspectives. Students will also complete their dissertation proposals by the end of the second year. In the third year, students work on their dissertations, which will entail creating solutions to the identified problems. Unlike many dissertations, which have implications for the larger body of literature and scholarship, applied dissertations have implications for the organization(s) dealing with the problem at hand. Although different from a traditional dissertation in its focus, students are nevertheless expected to excel in written and oral skills associated with reviewing scholarly literature, collecting data, and interpreting the results in light of previous studies.
Students will demonstrate mastery of the oral and written skills needed to complete their applied research through a candidacy exam/dissertation proposal indicating readiness for conducting their studies offering solutions to their problem of practice. Students will then evaluate the effectiveness of this solution in their dissertation. The candidacy exam, proposal, and dissertation will be submitted to, and presented orally before, the student's Dissertation Committee. Typically, we expect that students will complete coursework and research in two years. It is possible that some students may need more than two years to complete their research, in which case they will be required to enroll in at least three credit hours of dissertation until they have successfully defended their applied dissertation.

Program of Study 75 credits

Master in Higher Education or Related Field (36 transferred from M.S.)

Doctoral Seminar (3 credits):

EDH 7666	Doctoral Seminar	3

Educational Administration and Leadership Core (12 credits)

EDA 7069	Educational Policy	3
EDA 7103	Theories of Educational Administration	3
EDA 7233	Ethics and Educational Leadership	3
EDA 7288	Politics of Education	3

Research Core (6 credits)
Advisor Approved

Milestone Courses (3 credits)

EDH 7964	Doctoral Candidacy Exam	1
EDH 7983	Dissertation Proposal Seminar	1
EDH 7985	Dissertation Defense	1

Dissertation (15 credits)

EDH 7980	Ph.D. Dissertation

Candidacy Examination and Advancement to Candidacy
To advance to candidacy, the student must select a dissertation committee and submit a draft of his or her proposal to the dissertation committees. The dissertation committee will review the proposal and determine, by majority votes, whether or not to advance the student to candidacy and to the proposal defense. This process constitutes the candidacy exam. To continue in the program, and barring official approval by the University Graduation School of a leave of absence during this process, the student will have 1 year after completion of all non-dissertation coursework to be admitted to candidacy.
If the dissertation committee advances the student to candidacy, the student will enroll in the following term in EDH 7964 and EDH 7983. In those courses, the student will continue to work on their proposal, complete the IRB approval process, if applicable, and successfully defend

his or her dissertation proposal. The student will be required to submit all documents and forms related to the advancement to candidacy and dissertation proposal, including the D-2 and D-3, to the University Graduate School at the same time.
The University Graduate School admits students to candidacy. After advancement to candidacy, students must be continuously enrolled in a minimum of 3 dissertation credits (EDH 7980) each term until graduation.

Dissertation Proposal
A student admitted to candidacy must successfully complete and defend his or her proposal for the applied dissertation, which constitutes the research plan for the dissertation. Because the applied dissertation proposal is part of the candidacy exam process, please refer to the section on "Candidacy Examination and Advancement to Candidacy" in this catalog. More information about the dissertation proposal is available from the student's advisor.

Time to Completion
While this program is designed to be completed in 3 years, the University policy permits only 9 years to complete a doctoral program, counting from admission to graduation. Students must have completed all coursework and program requirements within that time, including a successful defense of the dissertation. Coursework applied toward completion of program requirements cannot be more than nine years old at the time of graduation, unless the coursework was transferred from a previously-earned graduate degree.

Graduation Requirements
The following is required for successful graduation from the program:

Successful completion of all course work and candidacy exam; GPA of 3.00 or better; and
Successful completion, defense, and University approval of the applied dissertation.

Doctor of Philosophy Programs

Higher Education

The program culminating in the Doctor of Philosophy in Higher Education is designed to provide the opportunity for students to enhance analytical and research skills for leadership roles in institutions of higher education. Graduates are prepared for academic and administrative positions, as faculty, or as policy analysts in federal, state, or institutional roles. The program is designed to stimulate research related to higher education, particularly in urban settings.

Admission Requirements

Applicants to the program must submit the following records and documents to the Office of Graduate Admissions:

1. A completed online application for Graduate Admission with appropriate fees;
2. Official transcripts of all higher education institutions attended;
3. Three letters of reference attesting to the applicant's ability to succeed in doctoral study;
4. A current résumé/vitae;
5. A statement that sets forth the applicant's research interests and career goals and relates these goals to the completion of the Ph.D. Program in Higher Education; and
6. A writing sample illustrating research skills (such as a thesis, journal article, paper submitted for academic credit; etc.).
7. Letters and any other supporting documents are to be sent to FIU Graduate Admissions Office.

No action will be taken on incomplete files. A file is considered incomplete if any of the above is missing.

The application and all supporting documentation are reviewed by program faculty using the criteria noted below. Exceptions to one or more of the stated criteria may be granted on the basis of other compelling evidence that the applicant is likely to be successful in this doctoral program.

1. A grade point average (GPA) of at least 3.0 (on a 4.0 scale) in upper level undergraduate credits;
2. A cumulative 3.25 GPA for all graduate work attempted.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
4. The evidence from the writing sample that the applicant can perform doctoral-level work.
5. A possible interview with the Doctoral Admissions Committee.

Members of the program's graduate faculty will constitute the Doctoral Admissions Committee. Upon completion of the review of the applicant's file and the interview, the Doctoral Admissions Committee will make recommendations to the University Graduate School.

As admission to programs is competitive, meeting minimum admission requirements does not assure admission into the program. A candidate for admission to the program will be judged not only on the basis of quantitative criteria but also in relation to prior experience, especially as it relates to future career goals and faculty expertise.

Admission into the doctoral program takes place once a year for entry in the Fall semester. Applicants should prepare all application materials in time for the program faculty and the Office of Graduate Admissions to receive them no later than December 1 for the following year's fall admissions.

Degree Requirements

Number of Credits Required:
A minimum of 75 credits are required for students entering the Ph.D. program without a Master's Degree, 63 credits for students entering the Ph.D. Program with a Master's Degree from an accredited institution in a nonrelated field, or 54 credits for those entering with a Master's Degree in Higher Education or related field from an accredited institution.

Composition of Coursework

Coursework for students entering the Ph.D. Program with a Master's Degree in Higher Education or related field are as follows:

EDH 7666	Doctoral Seminar	3
EDH 7964	Doctoral Candidacy Exam	1
EDH 7983	Dissertation Proposal Seminar	1
EDH 7985	Dissertation Defense	1

Research Methods/Methodology (12 credits minimum)
Higher Education Core (21 credits minimum)
Dissertation (15 credits minimum)

Coursework for students entering the Ph.D. Program with a Master's Degree in a non-related field are as follows:

EDH 7666	Doctoral Seminar	3
EDH 7964	Doctoral Candidacy Exam	1
EDH 7983	Dissertation Proposal Seminar	1
EDH 7985	Dissertation Defense	1

Research Methods/Methodology (12 credits minimum)
Higher Education Core (30 credits minimum)
Dissertation (15 credits minimum)

Coursework for students entering the Ph.D. Program without a Master's Degree are as follows:

EDH 7666	Doctoral Seminar	3
EDH 7964	Doctoral Candidacy Exam	1
EDH 7983	Dissertation Proposal Seminar	1
EDH 7985	Dissertation Defense	1

Research Methods/Methodology (12 credits minimum)
Higher Education Core (42 credits minimum)
Dissertation (15 credits minimum)

Dissertation (15 hours minimum)

All doctoral students must be continuously enrolled in a minimum of three (3) dissertation credits (EDH 7980) each term following advancement to candidacy until graduation.

Dissertation Committee

Prior to defending a proposal, the students must select a dissertation committee, made up of at least 4 faculty members, one of which will be the director (or chair) of the dissertation. The chair/director of the dissertation must have Dissertation Advisor Status. Further information about the dissertation is available from the student's advisor, and the University Graduate School.

Candidacy Examination and Advancement to Candidacy

To advance to candidacy, the student must select a dissertation committee and submit a draft of his or her proposal to the dissertation committees. The dissertation committee will review the proposal and determine, by majority votes, whether or not to advance the student to candidacy and to the proposal defense. This process constitutes the candidacy exam. To continue in the program and barring official approval by the University Graduation School of a leave of absence during this process, the student will have 1 year after completion of all non-dissertation coursework to be admitted to candidacy.
If the dissertation committee advances the student to candidacy, the student will enroll in the following term in EDH 7964 and EDH 7983. In those courses, the student will continue to work on their proposal, complete the IRB approval process, if applicable, and successfully defend his or her dissertation proposal.
The student will be required to submit all documents and forms related to the advancement to candidacy and dissertation proposal, including the **D-2** and **D-3,** to the University Graduate School at the same time.
The University Graduate School admits students to candidacy. After advancement to candidacy, students must be continuously enrolled in a minimum of 3 dissertation credits (EDH 7980) each term until graduation.

Dissertation Proposal

A student admitted to candidacy must successfully complete and defend a proposal for their dissertation, which constitutes the research plan for the dissertation. Because the dissertation proposal is part of the candidacy exam process, please refer to the section on "Candidacy Examination and Advancement to Candidacy" in this catalog. More information about the dissertation proposal is available from the student's advisor.

Master of Science in Higher Education Administration

Doctoral candidates in Higher Education who have not previously earned a master's degree in the field, who have completed 36 credits deemed appropriate by the program faculty (up to 6 credits can be applied from a previously master's degree), and whose D-2 has been approved by the University Graduate School, can receive a Master of Science in Higher Education Administration en route to the PhD.

The Dissertation

The dissertation must be an original contribution to knowledge. The doctoral dissertation is the final component of the series of academic experiences that culminate in the awarding of the Ph.D. degree. A successful dissertation is a demonstration of the candidate's ability to use the tools and methods of basic and/or applied research in the field, to organize the findings, and to report them in a literate, logical, and compelling fashion. In addition to EDH 7980, students must enroll in EDH 7985 in the term in which they will defend their dissertation.

Time to Completion

The time to completion, from admission to graduation, is nine (9) years. Students must have completed all coursework and program requirements within that time, including a successful defense of the dissertation. Coursework applied toward completion of program requirements cannot be more than nine years old at the time of graduation, unless the coursework was transferred from a previously-earned graduate degree.

Graduation Requirements

The following is required for successful graduation from the program:

1. Successful completion of all course work and candidacy exams;
2. GPA of 3.00 or better; and
3. Successful completion, defense, and University approval of the dissertation.

Graduate Certificate in Academic Advising

The graduate certificate program in academic advising is designed for those wishing to enter the field of academic advising or those working in academic advising with a degree in another discipline. The master's degree is typically the entry-level requirements for an advising position at the university level. For those with a graduate degree in another discipline, the certificate can provide a foundation in the theory and practice of advising. For those interested in the field, a certificate can be a concentration within a master's degree in higher education. The advising certificate consists of 15 hours or required courses and electives. This certificate program is open to non-degree-seeking students only.

Admission Requirements

1. A baccalaureate degree and an undergraduate GPA of 3.0 in the last 60 credit hours of upper-division undergraduate study;
2. Work experience in higher education such as community college or student affairs areas is preferred but not required;
3. Two (2) letters of recommendation;
4. Personal statement;
5. Resume.
6. Letters and any other supporting documents are to be sent to FIU Graduate Admissions Office, 11200 SW 8th Street, BT 201 Miami, FL 33199.
7. Note: The GRE is not a requirement for admission into the Certificate in Academic Advising program.

Program Requirements: (15 semester hours)

In consultation with their advisor, the certificate student will select a set of courses that align with their career goals and professional development needs.

Required Courses

EDH 6045	College Student Development Theory	3
EDH 6041	Foundations of Academic Advising	3

Choose two of the following courses

EDH 6943*	Practicum in Higher Education Administration	3
MHS 5400	Counseling Skills and Techniques	3
MHS 6428[1]	Cross Cultural Counseling	3
MHS 5340[1]	Educational-Vocational Counseling	3
EDH 6047	College Student Life and Culture	3

Choose one advisor approved elective

*EDH 6943 Practicum in Higher Education is required if the student is not employed in academic advising or a related field.

[1]MHS 5400 is a prerequisite and must be completed prior to enrollment in MHS 6428 and MHS 5340.

Graduate Certificate in Educational Leadership

The Graduate Certificate Program in Educational Leadership is designed for students who have a master's degree in a subject or field of Education other than Educational Administration/Leadership. The coursework constitutes the "modified Florida program in educational leadership" at Florida International University and addresses the competencies assessed in the Florida Educational Leadership Examination. The program may be used to satisfy part of the requirements of the Florida Department of Education for certification in Educational Leadership. This certificate program is open to non-degree-seeking students only.

Admission Requirements

Admission to the program based on the following criteria:

1. A master's degree from an accredited institution;
2. A grade point average of at least 3.25 (on a 4.0 scale) in master's degree work;
3. A minimum combined score of 800 on the verbal and quantitative portions of the Graduate Record Examination (General Test);
4. At least three years of successful teaching experience and a regular Florida teaching certificate; and
5. Evidence of having satisfied the ESOL requirements of the State of Florida. (Otherwise, a student will be required to satisfy this requirement prior to completion of the program.)

Program of Study

The program of study comprises a minimum of 30 semester hours.

EDA 6192	Leadership in Education	3
EDA 6195	Communication in Educational Leadership	3
EDA 6232	School Law	3
EDA 6242	School Finance	3
EDA 6271C	Administering Educational Technology	3
EDA 6503	Instructional Leadership	3
EDA 6222	School Personnel Administration	3
EDA 6943	Administrative Internship	3
EDA 6061	Introduction to Educational Leadership	3
Advisor-approved elective in Curriculum and Instruction		3

In addition to the successful completion of the program's coursework, a student will be required to present evidence of having passed all sub-tests of the FELE and satisfied the ESOL requirements that demonstrate mastery of the four ESOL standards required of school administrators.

Course Descriptions

Definition of Prefixes

ADE - Adult Education/Human Resource Development; EDA - Education: Educational Leadership; EDF - Education: Foundations; EDH - Education - Higher; EDS - Education: Supervision; F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering; ALT-alternate years; AR-as required.

ADE 5383 Instructional Analysis and Design (3). This course includes analyzing models for instructional analysis and design. Identifying the target population, instructional needs, job and task analysis. Developing learning objectives and related design. Prerequisites: ADE 5386, or ADE 5387, or permission of the instructor. (F)

ADE 5386 Individual Learning and Adult Education (3). Students differentiate learning theories related to teaching adults, contrast characteristics of adults relative to youth, and evaluate the implications of these relative adult learning situations. (F)

ADE 5387 Organizational Learning and Human Resource Development (3). Developing rationale and philosophy of human resource development and understanding theories of workplace and organizational

learning. Understanding and applying models of organizational learning. (S)

ADE 6074 Writing for Publication in Adult Education and Human Resource Development (3). Students develop an understanding of the scholarly writing process and produce scholarly work for submission. Topics include topic selection and manuscript organization, preparation, and review. (SS)

ADE 6180 Organizational and Community Processes in AE/HRD (3). This course analyzes human resource and community development programs, the processes and implemental strategies; needs assessment objectives, curricula, recruitment, implementation, and evaluation. (SS)

ADE 6186 Comprehensive Program Evaluation in AE/HRD (3). This course incorporates development of a comprehensive strategy for evaluating complex educational, training, human resource and organizational development programs. (F)

ADE 6195 Perspectives on Adults with Disabilities (3). In this course the student will distinguish the various perspectives of the employment, inclusion, and education of adults with disabilities; analyze forces that inhibit solutions; and develop programs, curricula, materials, recruitment strategies, and evaluation designs.

ADE 6260 Management of AE/HRD Programs (3). This course is composed of analyzing regulations affecting adult education/human resource development, selecting and training staff; selecting organizational patterns; executing managerial responsibilities; administering supportive services; relating training to organization development. (F)

ADE 6286 Instructional Development and Implementation (3). The course includes the following: 1. a systematic approach to developing instructional materials and strategies appropriate to adult and organizational needs and 2. implementation strategies including instructional delivery skills for adult learning. Prerequisite: ADE 5383 or permission of the instructor. (S)

ADE 6360 Adult Teaching Methods (3). Students explore adult teaching philosophy and methods and prepare to teach in a variety of adult learning environments such as higher education, community education, ABE, TESOL and adult literacy. Prerequisites: ADE 5386 or permission of instructor. (S)

ADE 6476 Computer Based Training (3). This is a basic course in computer based instruction and training which includes the application of instructional design to CBT, and proficiency in an authoring software. Prerequisites: ADE 5383 and working knowledge of personal computers are recommended. (S)

ADE 6674 Trends and Issues in AE/HRD (3). This course is comprised of presentation and analysis of state-of-art trends impacting development of human resources in specific organizations including educational agencies/business & industry/public sector and commerce. Prerequisites: ADE 6180 or equivalent. (F/Odd years)

ADE 6906 Directed Study in Adult Education and Human Resource Development (1-3). This is a course of specialized intensive study in areas of interest to the student. Prerequisite: Permission of the instructor. (AR)

ADE 6925 Workshop in Adult Education and Human Resource Department (1-6). The course includes intensive development of selected competencies related to instructional, curricular and/or administrative skills of special interest to students in adult education/human resource development. (AR)

ADE 6930 Seminar in Adult Education and Human Resource Development (1-3). This course consists of intensive study of instructional, curricular, and/or administrative principles and practices for the solution of problems of special interest to students in adult education and human resource development. (AR)

ADE 6935 Special Topics in Adult Education and Human Resource Development (1-3). These are 'Mini-courses' which provide for an examination of special facets of adult education and human resource development. (AR)

ADE 6945 Internship in Adult Education or Human Resource Development (3 or 6). This course is required in both masters programs. Internship in organizations are according to students' needs & interests. Supervisory visits & conferences are periodically conducted. Prerequisites: ADE 6180, ADE 6260, ADE 6286 or permission of the instructor. (F)

ADE 6946 Teaching Practicum (3). With faculty supervision, students deliver instruction to acquire teaching experience in an adult education environment such as higher education, community education, ABE, TESOL or adult literacy. Prerequisites: Permission of the instructor. (AR)

ADE 7475 Comparative Systems, Strategies and Materials for Adult Education/HRD (3). This course is a review and critique of the prevailing inventory of packaged systems on the market. Examination of assumptions and problems surrounding their actual usage in local and national organizations will be addressed. Prerequisites: ADE 6180, ADE 5383. (SS/Odd years)

ADE 7571 Consulting as an Adult Education/HRD Process (3). This course includes examination of use of internal/external consultation in organizations and strategies for making entry diagnoses interventions achieving internalization of processes outcomes. (SS/Even Years)

ADE 7772 Review of Research in Adult Education and Human Resource Development (3). This course is required in the doctoral program and is composed of a review and synthesis of research & development activities in Adult Education/HRD; Examination of resources/practices/designs & justifications; and assessment of the status of research in this field. Prerequisites: At least six doctoral research credit hours. (S)

ADE 7920 Colloquium in AE/HRD (1-6). Lectures & discussions are given by distinguished educators/social scientists/organizational executives/graduate faculty and students. The colloquia present specific topics related to issues/trends/designs and applications.

ADE 7964 Comprehensive Doctoral Examination, Adult Education/HRD (0). This course is the

comprehensive doctoral examination in the Adult Education/Human Resource Development. Prerequisite: Permission of Major Professor. (F,S,SS)

ADE 7980 Ed.D. Dissertation (1-12). This course focuses on research for doctoral dissertation for those students approved for candidacy in the Adult Education/Human Resource Development Program. Prerequisites: Permission of Major Professor and Doctoral Candidacy. (F,S,SS)

ADE 7985 Dissertation Defense (0). This course is the defense of dissertation. Prerequisites: Permission of Major Professor and ADE 7980. (F,S,SS)

EDA 6061 Introduction to Educational Leadership (3). This course is an Introduction to Educational Administration/Leadership as a field of both study and practice. Emphasis is placed on the social, economic, and political context of contemporary educational administration; the organization, governance, and control of American education; and Educational Administration/ Leadership as a profession and career. (F,S,SS)

EDA 6192 Leadership in Education (3). This course includes a review, analysis and application of concepts and theories of leadership with emphasis on organizational and environmental factors, group dynamics, and change processes in education. (F,S,SS)

EDA 6195 Communication in Educational Leadership (3). This course consists of analysis of principles, processes, and techniques of effective communication, public relations in educational leadership, and school-community relations. (F,S,SS)

EDA 6222 School Personnel Administration (3). This course provides the knowledge and skills essential for exercising effective leadership in school personnel recruitment, selection, orientation, assessment, and professional development.

EDA 6232 School Law (3). This is a basic course in school law. (F,S,SS)

EDA 6242 School Finance (3). This course describes and analyzes current and emerging school finance plans; the influence of the courts and federal and state legislation on those plans; the Florida Education Finance Plan; and the budget responsibilities of the school principal. (F,S,SS)

EDA 6271C Administering Educational Technology (3). This course is designed to provide pre-service and in-service administrators with the theoretical and practical knowledge necessary for planning and implementing technology in schools. Students will develop a knowledge base of technology applications essential for educational administrators. (F,S,SS)

EDA 6503 Instructional Leadership (3). This course focuses on the role of instructional leadership in schools and the role of school administrators in promoting and sustaining instructional leadership. (F,S,SS)

EDA 6905 Directed Study in Educational Leadership (1-3). This course is for advanced graduate students wishing to engage in independent study under the direction of a faculty member. Prerequisites: Admission to master's program and permission of instructor. (F, S,SS)

EDA 6925 Workshop in Educational Administration and Supervision (1-6). This course offers an opportunity for experienced school personnel to participate in a problem-solving workshop. (AR)

EDA 6928 Special Topics: School Improvement (1-6). This course offers an opportunity for experienced school personnel to participate in a school improvement workshop. (AR)

EDA 6930 Seminar in Educational Leadership (3). This course is a review of selected concepts and competencies in the field of educational leadership. (AR)

EDA 6941 Practicum in Educational Leadership (3). This course consists of application of theory and research to field-based problems in educational administration/ leadership. Prerequisite: Permission of the instructor. (AR)

EDA 6943 Administrative Internship (1-6). This course will provide supervised field experience appropriate to the student's interests and professional goals. Prerequisite: Permission of the instructor. (F,S,SS)

EDA 6945 Colloquium in Educational Administration (3). This course examines selected contemporary policy and practice issues in educational administration and supervision. It is repeatable with permission of the instructor. (AR)

EDA 7069 Educational Policy (3). This course is a review, analysis, and synthesis of various concepts and models of educational policy formation and implementation. It is for doctoral students only.

EDA 7103 Theories of Educational Administration (3). This course is an examination of theoretical constructs and models related to the organization and administration of educational institutions. Prerequisite: Admission to doctoral program. Doctoral students only.

EDA 7233 Ethics and Educational Leadership (3). This course is an exploration of ethical concepts and issues in educational administration and leadership that emphasizes the enhancement of personal and professional skills of ethical reasoning and reflection in decision-making situations. (AR)

EDA 7288 Politics of Education (3). This course is an analysis of the political dynamics of educational governance and the political dimension of educational administration. Doctoral students only. (F)

EDA 7905 Directed Study in Educational Administration and Supervision (1-6). This course is for advanced graduate students wishing to engage in independent study under the direction of a faculty member. Prerequisite: Permission of the instructor. (F,S,SS)

EDA 7930 Seminar in Educational Administration and Supervision (3). This course considers critical issues and problems in the administration of educational institutions. (AR)

EDA 7961 Dissertation Research Seminar (3). This course is designed to provide advanced doctoral students with a knowledge and understanding of the process of dissertation research and writing and of the dissertation defense. Prerequisite: Advanced doctoral standing. (AR)

EDA 7964 Comprehensive Doctoral Examination, Educational Administration and Supervision (0). This is the comprehensive doctoral examination in Educational

Administration and Supervision. Prerequisite: permission of major professor. (F,S,SS)

EDA 7979 Dissertation Research Seminar (3). This course is designed to provide advanced doctoral students with a knowledge and understanding of the process of (1) dissertation research and writing, and (2) the dissertation defense. Prerequisite: advanced doctoral standing.

EDA 7980 Ed.D. Dissertation (1-12). This course consists of research for doctoral dissertation. Prerequisite: Permission of major professor and doctoral candidacy. (F,S,SS)

EDA 7985 Dissertation Defense (0). This is the defense of doctoral dissertation. Prerequisite: Permission of the major professor and EDA 7980. (F,S,SS)

EDF 5517 History of Education in the Changing Social and Philosophical Context of the American Republic (3). This course is an historical examination of formal education in the changing social and philosophical context of the American republic. Special focus is on school/society relationship. (F,SS)

EDF 5851 Social/Cultural Conflict in Educational Change (3). This course explores radical interpretations of the relationship of education to development in the Third World. Emphasis will be placed on the problem of values conflict and on the use of appropriate educational technologies. (AR)

EDF 5880 Intercultural Education: National and International Perspectives (3). Analysis of concepts and programs of intercultural and international education. Consideration of the role of education in fostering intercultural understanding both nationally and internationally. (F)

EDF 5905 Directed Study in Education (1-3). The student plans and carries out an independent study project under direction. Topics are to directly relate to content of education courses. Independent study may not substitute for regular course offerings. Prerequisites: Written permission of the chairman of the Division and the approval of the instructor. (F,S,SS)

EDF 5942 Multicultural Seminar and Practicum in Urban Education (3). This course includes effective methods of educating immigrant and other minority children. Prerequisite: Current Florida Teaching Certificate. (AR)

EDF 5955 Field Study Abroad (3-6). Development of international and cross-cultural understandings of educational philosophies and systems through planned travel and study abroad. (SS)

EDF 6365 Cultural Identities and Conflict (3). This course provides students with an opportunity to conduct research on the construction of cultural identities. It emphasizes the analysis of the role played by cultural identity symbols in conflict situations.

EDF 6366 Conflict Resolution: Negotiation-Based Perspectives (3). This course introduces students to negotiation-based perspectives on conflict resolution. It provides opportunities to learn problem-solving strategies to move from confrontation to collaboration.

EDF 6367 Interactive Conflict Resolution: A Third-Party Perspective (3). This is an overview of the field of interactive conflict resolution or third-party perspective. It provides opportunities to conduct research and acquire preliminary skill as third-party facilitators.

EDF 6487 Action Research for Educators (3). The first part of a two semester sequence providing the knowledge and skills necessary for conducting research in schools and classrooms by teachers and administrators; using the results of this research to inform practice. Prerequisite: EDF 5481.

EDF 6602 Social and Philosophical Foundation of Education: An Urban Perspective (3). Conceptualization and development of education by development of social analysis and ethical decision making. Prerequisite: Admission to Focus/Masters program. (AR)

EDF 6608 Social, Philosophical and Historical Foundations of Education (3). This course is required of students seeking a regular Masters degree in Education. It will assist students in examining and explaining the differing social context of schooling, the diverse value orientation represented in formal and informal education and the major historical forces shaping schooling in America. (F,S,SS)

EDF 6621 Economic Principles of Education (3). This course covers the linkages between education and the economy. Higher education, corporate interest, and privatization are examined in light of market forces. Emerging trends in the knowledge economy, labor/skill demand also discussed.

EDF 6636 Intercultural Studies: A Qualitative and Quantitative Analysis (3). This course is a study of interrelationship between race, class, gender, ethnicity, and national origin and their influence in learning. Prerequisite: EDF 5481. (AR)

EDF 6654 Macro- and Micro-Planning in Education (3). This course is designed to study the theoretical and methodological foundations of educational planning in the U.S. and other countries. (F)

EDF 6658 Selected Topics in International Development Education: Current Policy Issues and Problems (3). This course is dedicated to the study of contemporary problems and issues in the fields of educational policy, planning, management, implementation, and research in developing societies. (AR)

EDF 6684 Building Home School Community Partnerships in a Context of Justice and Civic Engagement (3). Students study communities involved in the education of their children, especially marginalized children and families, exploring why and how these communities partner and the implications for teachers.

EDF 6689 Contemporary Issues in Urban Education (3). This course examines the state of urban education and contemporary urban life in America. Prerequisite: Admission to Masters program. (AR)

EDF 6766 Education, the Environment, and Sustainable Futures (3). This course presents an overview of issues in sustainable development, education and the modern school. Efforts will be made to explore the roles that education and culture play in environmental degradation.

EDF 6812 National Educational Systems: A Comparative Analysis (3). Examination of educational structures and guiding educational objectives in a limited number of both developed and developing countries. Analysis of responses of national educational systems to common educational issues. (S)

EDF 6850 International Development Education: Contemporary Planning Models and Techniques (3). This course is designed to explore the relationship between education and the modernization/development process. Special emphasis on historic/contemporary educational planning models and techniques. Prerequisite: EDF 5481. (S)

EDF 6852 Educational Development Issues in Context: A Multidisciplinary Perspective (3). This course is a critical analysis of educational reforms of the past and the present, drawing on social science research and policy issues in the Third World. Prerequisite: EDF 6850. (S)

EDF 6853 Gender and International Education Development (3). This graduate-level participatory seminar explores gender in international education development in the Latin American and Caribbean region. Prerequisite: Graduate standing.

EDF 6906 Directed Study in International Development Education (3). This course is a specialized intensive study in areas of interest to International Development Education majors. Prerequisite: Approval of program advisor and instructor. (F,S,SS)

EDF 6925 Special Topics in Urban Education (1-5). This is an opportunity for school personnel to develop special competencies in teaching in an urban environment. Prerequisite: Permission of the instructor. (AR)

EDF 6940 International and Intercultural Education Practicum (3). Prepares advanced International and Intercultural Education graduate students to complete a credit-earning practicum experience focused on education in the Latin American and Caribbean region. Prerequisite: Graduate Standing

EDF 6941 Practicum in Action Research (3). This course develops the skills of researchers who engage in the process of action research in areas associated with urban education. Prerequisite: EDF 6487. (AR)

EDF 6972 Thesis in International Development Education (3-9). A thesis is required of students in International Development Education which demonstrates the application of their analytical, conceptual, and technical skills to a specific educational development problem. Prerequisite: Final semester standing in the International Development Education Master's degree program. (F,S,SS)

EDF 7493 Transcultural/Transnational Research and Evaluation Methodology (3). This course is an in-depth examination and discussion of the issues, dilemmas, and specific design requirements in conducting transcultural and transnational research and evaluation. Prerequisites: EDF 7492 and EDP 7504.

EDF 7656 International Development Education: Innovative Approaches in Educational Planning (3). Introduction to educational planning approaches which stress decentralization. It focuses on new and innovative perspectives which emphasize strategic aspects of educational planning. (AR)

EDF 7934 Seminar in the Social Foundations of Education (3). This course provides a social and philosophical frame of reference reflecting the society in which education occurs and the resulting implications for the functioning of schools. Prerequisites: M.S. or equivalent and at least one graduate course in history, philosophy or sociology, or equivalent. (AR)

EDF 7937 Advanced Topics in the Social Foundations of Education (3). This course is an in-depth, advanced exploration of a specific area, issue, or practice in relation to the evolving social, philosophical and historical context of American schooling. Prerequisite: Doctoral students only. (F,S,SS)

EDH 6041 Foundations of Academic Advising (3). This course provides overview of developmental advising theories and current research on academic advising, cultural issues related to advising, and delivery systems for advising.

EDH 6045 College Student Development Theory (3). This course is an overview of the most commonly used theories of student development in higher education including the research on which they are based and their application to practice with diverse student populations, issues, and settings.

EDH 6047 College Student Life and Culture (3). This course examines college students in the US from a socio-cultural perspective. Compares student life across historical contexts, various student types, and current issues related to student development.

EDH 6050C Women and Higher Education (3). This course focuses on the history of women in higher education and provides a gender analysis of current higher education issues.

EDH 6051C Leadership in Higher Education (3). This course consists of an analysis and comparison of leadership theories, followership, leadership and management, ethics of leadership, and power and gender issues in higher education.

EDH 6055 Access and Choice in US Higher Education (3). This course examines who goes to college, how they choose, how they pay. Issues include college choice models, types of institutions, equality of access to college, financial aid, rankings, and affirmative action.

EDH 6061 History of Higher Education (3). This course examines the history of American higher education.

EDH 6066 Contemporary Issues in Higher Education (3). Study of contemporary issues confronting higher education. Emphasis is on the identification, definition, and study of issues and how they might be addressed by educational leaders and policy makers.

EDH 6085 Diversity and Social Justice in Higher Education (3). An introduction to diversity and social justice, exploring racism, sexism, ableism, classism, and other related topics.

EDH 6401 Counseling Skills for Higher Education Professionals (3). An introduction to some of the mental health issues facing college students that can inhibit their

learning process and impact their abilities to persist and graduate.

EDH 6404 Legal Issues in Higher Education Administration (3). This course offers a survey of legal issues of interest to practitioners in the field of higher education, including student rights, employment rights, due process, free speech, tort liability.

EDH 6633 Introduction to Higher Education Administration (3). This course is an overview of higher education administration through a review of its history, theoretical foundations, functional areas, administrative structures, and current and future issues.

EDH 6634 Organization and Administration of Student Affairs (3). This course is an exploration of organizational and administrative issues in Student Affairs including relationship to other executive areas, interrelationship of units, research, leadership and case studies.

EDH 6637 Crisis Management in Higher Education (3). This course studies the theories and practical approaches to managing crises in institutions of higher education. Students learn how institutions plan for crises and respond to crises effectively.

EDH 6905 Directed Study in Higher Education (1-6). Specialized intensive study in higher education and/or community college is in areas of interest to the student and is subject to approval of program advisor. Prerequisite: Permission of the instructor.

EDH 6925 Special Topics in Higher Education (1-3). This course is an intensive development of selected competencies related to staff development and/or administrative skills of special interest to students in higher education.

EDH 6935 Special Topics in Higher Education (3). This course provides for the examination of a particular academic topic of interest to students in higher education.

EDH 6943 Practicum in Higher Education Administration (3-6). Supervised practice in Higher Education offices/agencies to gain understanding of office/agency functions and role(s) of employees. Prerequisites: Fully admitted and completion of one semester.

EDH 6970 Master's Thesis (1-3). An individually supervised research project demonstrating the application of analytical, conceptual and technical skill to a specific higher education problem.

EDH 7040 Advanced Seminar on the College Student (3). This seminar provides a critical understanding of the research on the college student by examining the demographic, psychological, sociological, and interpretive literature.

EDH 7052 Student and Support Services (3). This is a comprehensive introduction and overview of student affairs in higher education including history, evaluation and growth, philosophical underpinnings, educational significance, administrative aspects and understanding of individual student service areas.

EDH 7053 Higher Education: Community College (3). This course examines the structure of the community college including: curriculum; administration and legal aspects; the community college concept; technical and career programs and current issues and problems.

EDH 7058 International Comparative Higher Education (3). The course provides a broad survey of international comparative higher education, including a cross-cultural perspective on historical and contemporary issues related to the structure and governance of higher education systems in various world regions and individual countries.

EDH 7065 Philosophy of Higher Education (3). This doctoral seminar examines philosophical positions in higher education.

EDH 7209 Interpretive Inquiry in Higher Education (3). Examines methods of inquiry in higher education including narrative, life history, phenomenology, hermeneutics, critical, feminist, and poststructural inquiry.

EDH 7225 Higher Education: Developmental Programs (3). This course examines the spectrum of developmental programs in higher education. Special attention is given to program structure, academic support systems and curricula designed to increase student achievement.

EDH 7307 Higher Education: Instructional Methods (3). This course will develop knowledge of and skill in the use of higher education instructional methods, such as lecture, discussion, demonstration, TV instruction, and computer assisted instruction.

EDH 7308 Higher Education: Occupational Programs (3). This is a core course in the doctoral program in higher education: Instruction. It is designed to help students develop an in-depth knowledge of occupational programs in higher education and the students it serves. Prerequisite: Graduate standing.

EDH 7401C Higher Education and Public Policy (3). This course examines the general topic of the relationship between the federal government and higher education is developed. Major attention is given to developments since WWII.

EDH 7402C State Policy and Higher Education (3). The general topic of this course is the relationship developed between the state government and higher education. Major attention is given to developments since WWII.

EDH 7405 Advanced Seminar on Law and Higher Education (3). This course offers students advanced study, research and writing on legal issues, including governance, faculty, and regulation by all levels of governments. Prerequisite: EDH 6404 (or equivalent).

EDH 7505 Higher Education: Finance (3). This is an intermediate course in Higher Education. Presents the economic and financial issues of Higher Education providing base for administrators and practitioners.

EDH 7635 Administration of Higher Education (3). Analysis of colleges and universities as social organizations with special emphasis on issues of administration, organization, and governance in higher education.

EDH 7666 Doctoral Seminar (3). This course offers doctoral students understanding of doctoral study, including skills necessary for successfully completing dissertation. Admission into doctoral program in Higher Education necessary. Prerequisite: Admission into the doctoral program in Higher Education.

EDH 7931 Seminar on Class, Gender, and Race in Higher Education (3). Examines historical and contemporary interrelationships of hegemony, domination, and power undergirding sociocultural viewpoints, institutional forces, and policy discourses in higher education.

EDH 7937 Special Research Topics in Higher Education Administration (3). This doctoral seminar is devoted to the in-depth treatment of selected theories and research topics in the field of higher education.

EDH 7939 Critical Texts in Higher Education (3). Thematic seminar devoted to the in-depth reading of key texts defining the field of higher education. Theme changes every term and may be taken more than once.

EDH 7964 Doctoral Candidacy Examination (1). Prerequisite: Permission of Major Professor.

EDH 7980 Ph.D. Dissertation (1-12). This course consists of research for doctoral dissertation. Prerequisites: Permission of Major Professor and Doctoral Candidacy. Course may be repeated as needed.

EDH 7983 Doctoral Proposal Seminar (1). This course is a defense of the dissertation proposal. Instructor consent required. Prerequisite: Major Professor Approval.

EDH 7985 Dissertation Defense (1). This course is the defense of dissertation.

EDS 6050 Supervision and Staff Development (3). This course consists of the study of competencies in supervision and staff development.

Teaching and Learning

Sarah A. Mathews, *Chair, Associate Professor, Social Studies Education*
Melanie Morales, *Associate Chair, Associate Teaching Professor, Special Education*
Andrea Adelman, *Clinical Assistant Professor, Early Childhood Education*
Patricia Barbetta, *Associate Professor, Special Education*
Kyle Bennett, *Associate Professor, Special Education*
Marcelo Bigliassi, *Assistant Professor, Physical Education, Kinesiology, and Exercise Science*
Charles Bleiker, *Associate Professor, Early Childhood Education*
James Burns, *Associate Professor, Curriculum and Instruction*
Rebecca C. Christ, *Assistant Professor, Social Studies Education*
Elizabeth Cramer, *Professor, Special Education*
Emily A. Dare, *Associate Professor, Science Education*
Michelle Cumming, *Associate Professor, Special Education*
Charmaine DeFrancesco, *Associate Professor, Physical Education, Kinesiology, and Exercise Science*
Laura Dinehart, *Senior Associate Dean, School of Education and Human Development and Associate Professor, Early Childhood Education*
Remy Dou, *Associate Professor, Science Education*
Eric Dwyer, *Associate Professor, TESOL and Modern Language Education*
Joshua Ellis, *Associate Professor, Science Education*
Maria L. Fernandez, *Co-Director, FIUteach, and Associate Professor, Mathematics Education*
Joyce C. Fine, *Associate Professor, Literacy Education*
Daniela Fenu Foerch, *Clinical Assistant Professor, Early Childhood Education*
Liana Gonzalez, *Associate Teaching Professor, Special Education*
Zahra Hazari, *Professor, Science Education*
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Maria V. Tsalikis, *Teaching Professor, Literacy Education*
Megan Turner, *Assistant Teaching Professor, Physical Education, Kinesiology, and Exercise Science*
Lynn Yribarren, *Teaching Professor, Literacy Education*
Lafayette Trey Watson, *Clinical Assistant Professor, Physical Education, Kinesiology, and Exercise Science*
Mara Zapata, *Clinical Assistant Professor, Science Education*

General Information

The Department of Teaching and Learning offers graduate degrees leading toward the Master of Science, Education Specialist, Doctor of Education degrees, and Doctor of Philosophy degrees.

The department is committed to the generation and application of knowledge through research and service to the community.

Master of Science Programs

Curriculum and Instruction
Specializations in:
- Curriculum Development
- Elementary Education
- English Education
- Modern Language Education
- Learning Technologies
- Mathematics Education
- Physical Education
- Science Education
- Social Studies Education
- Special Education

Early Childhood Education
Foreign Language Education
- TESOL Track
- Teaching in Challenging Contexts (TiCC)

Kinesiology and Exercise Science
Reading/Literacy Education (K-12)
Special Education

Educational Specialist Program

Teaching and Learning
Specializations in:
- Curriculum, Cultural and Social Studies
- Elementary Education and Early Childhood Education
- Kinesiology
- Language, Literacy, Literature, and Culture
- Science, Technology, Engineering, and Mathematics Education (STEM)
- Special Education

Doctor of Philosophy in Teaching and Learning

Specializations in:

- Curriculum, Cultural, and Social Studies
- Elementary Education and Early Childhood Education
- Kinesiology
- Language, Literacy, Literature, and Culture
- Science, Technology, Engineering, and Mathematics Education (STEM)
- Special Education

Graduate Certificate Programs

Grades K-5 Mathematics Teaching
Grades 6-12 Mathematics Teaching
Professional Spanish/English Bilingual Education
TESOL

All stated admission requirements are to be considered minimum. A student who meets these minimum requirements is not automatically assured admission.

Advanced Master of Science Degree Programs

Applicants for admission to advanced Master's programs in Education must hold or qualify for teacher certification in the appropriate area. Early Childhood Education applicants must hold or qualify for certification or equivalent in elementary, special or early childhood education (including practical teaching experience requirement). All applicants must also satisfy Board of Education admission requirements: a Bachelor's Degree or pass State of Florida Certification Exams, a GPA of 3.0 or higher for the last 60 hours of upper division coursework. Some programs require 3 letters of recommendation, an autobiography, and GRE scores. Applicants admitted with a pending GRE score must submit test score within one semester to be fully admitted or become a candidate for graduation.

NOTE: Several MS programs have different admissions requirements. Review specific degree requirements in this catalog and consult with Program Director for further information.

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Master of Science in Curriculum and Instruction

The Master of Science in Curriculum and Instruction program requires 36 semester hours beyond the bachelors degree. Up to 6 semester hours of graduate credit may be transferred into the masters program. The Master of Science in Curriculum and Instruction program includes five required components:

1. Curriculum and Instruction Core (9 semester hours)
2. Curriculum and Instruction Elective (3 semester hours)
3. Research Core (6 semester hours)
4. Content Specializations (18 semester hours)

*The MSCI Program is a non- initial teacher preparation program and does not lead to teaching certification.

Admission Requirements

Applicants for admission into the Master of Science in Curriculum and Instruction program must meet the minimum University Graduate School admission criteria. Admission to the masters program will be based on the following criteria:

1. A bachelor's degree Education or an appropriate area from an accredited institution.
2. Applicants with a non-Education degree must demonstrate teaching experience.
3. A GPA of 3.0 in the last 60 semester hours of upper division undergraduate study.
4. Two (2) letters of recommendation to support the application. Letters and any other supporting documents are to be sent to Graduate Admissions Office at Florida International University, PO Box 659004, Miami, Florida, 33265 to complete the application for admissions.
5. A statement of personal philosophy/professional goals consistent with the objectives of the master's program.
6. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the IBT TOEFL or 6.5 overall on the IELTS is required. (Exceptions: Students who completed an undergraduate or graduate program from a U.S. institution or accredited higher education institution in other English-speaking countries).

Transfer of Credit

Students may be allowed to apply up to six semester hours of course work taken at accredited institutions to the masters program requirements with the following stipulations:

1. The student received a grade of 3.0 or better on a 4.0 scale.
2. The course was relevant, as judged by the Admissions Committee.
3. The course is listed on an official transcript received by the Graduate Admissions Office.
4. The course will be no older than 6 years at the time of graduation with a master's degree.
5. The course(s) meets all University requirements.

Admission Procedures

In order to begin the masters program, a student must be accepted into the University Graduate School and the program in Curriculum and Instruction. Admission procedures are as follows:

1. Complete the online graduate admission application available at https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html. Official transcripts of all prior college work must be sent to the Graduate Admissions Office at Florida International University, PO Box 659004, Miami, Florida, 33265 to complete the application for admissions. Omission of any one of these items will delay the processing of the application.
2. Two letters of recommendation must be sent. Letters are to be from those who have knowledge of the applicant's prior professional experience (e.g. a supervisor) or of the applicant's ability to perform graduate work (e.g., a professor) and should attest to the applicant's intellectual ability, motivation, maturity, and potential. Letters and any other supporting

documents are to be sent to Graduate Admissions Office at Florida International University, PO Box 659004, Miami, Florida, 33265 to complete the application for admissions.

3. Once the University application procedures are completed, the Graduate Admissions Office forwards the applicant's materials to the Department of Teaching and Learning. The file is then forwarded to the program faculty for review. On the basis of its review, the program faculty will (1) recommend admission, (2) withhold a decision and request additional information from the applicant, or (3) deny admission.
4. Admission to the program is determined by the program faculty on the basis of its evaluation of the applicant's academic and professional credentials.
5. Meeting the minimum admission requirements does not guarantee admission into the program.

Program of Study

Curriculum and Instruction Core: (9 semester hours)

EDG 6250	Curriculum Development	3
EDG 6627	Seminar: Trends and Issues in Curriculum and Instruction	3

Special Methods of Teaching

Choose one of the following:

EDE 5267	Education of the Child in Urban Society (Required for Elementary, Special Education, and Curriculum Development Specializations)	3
EME 6405	Computers in the Classrooms	3
FLE 6336	Methods of Teaching Modern Language	3
LAE 6339	Teaching English in the Secondary School	3
MAE 6336	Teaching Mathematics in the Secondary School	3
PET 5716	Analysis and Observation of Teaching in Phys. Ed.	3
SCE 6366	Teaching Science in the Secondary School	3
SSE 6633	Teaching Social Studies in the Secondary School	3
TSL 6350	Troublesome English: Grammar for ESOL Teachers	3

Curriculum and Instruction Elective (3 semester hours)

Advisor approved elective in Curriculum and Instruction 3

Research Core: (6 semester hours)

EDF 5481	Foundations of Educational Research	3
EDF 6487	Action Research for Educators	3

Content Specialization (18 semester hours)

Choose from one of the following specializations:

1. Curriculum Development: The MSCI in Curriculum Development track seeks to familiarize graduate students with the knowledge and skills to design, deliver, and assess lessons/units and programs. The MSCI Curriculum Development track will expand students' knowledge in curriculum design theories and frameworks, identifying learning and teaching needs, understanding of current issues impacting our classrooms, and promoting teaching and learning research-based practices. This program is designed to benefit educators and/or administrators.
2. Elementary Education: The MSCI Elementary Education track seeks to expand teachers' knowledge base and enhance teaching methodologies in the K-6 setting.
3. English Education: The MSCI English Education track allows teachers and future teachers to gain knowledge of a more varied English content; implement curriculum theories and pedagogical concepts; and to write for different audiences and purposes which includes conducting research about students, teachers, and the English Language Arts (ELA) profession.
4. Learning Technologies: The MSCI Learning Technologies track seeks to teach teachers how to use technologies to facilitate teaching and learning. Teachers will also learn to create digital artifacts that they can use in their classrooms and how to teach programming and computational thinking to their K-12 students.
5. Mathematics Education: The MSCI Mathematics Education track is designed for current and future K-16 teachers of mathematics, (non-teacher certification track). This track focuses on building the understanding needed to teach mathematics effectively and on developing mathematics content knowledge for teaching. The MSCI in Mathematics Education supports continuous growth and development of K-16 teachers as reflective practitioners for teaching mathematics. Additionally, this track helps K-16 teachers develop knowledge and skills appropriate for mentoring, collaborating with other teachers, and providing professional development for continuous growth in teaching mathematics.
6. Modern Language Education: The MSCI Modern Language track is designed as a second inquiry into language education. It is particularly designed for professionals who have already completed basic academic inquiry into language and linguistics, foreign language instruction, assessment, and cross-cultural study. This track is designed to extend these inquiries with particular emphasis.
7. Science Education: The MSCI Science Education track is suitable for current K-12 teachers and other educators interested in science education. The track seeks to further develop individuals' knowledge of curriculum, theory, and practices related to teaching science.
8. Social Studies Education: The MSCI Social Studies Education track is designed for individuals that teach in the fields of Social Studies (e.g., History, Geography, the Humanities and Social Sciences) at the middle or secondary levels. In addition to the core education courses, students will take content specific areas including interdisciplinary studies across the university. Individuals may also gain the content knowledge applicable to teaching dual enrollment courses in these content areas.
9. Special Education: The MSCI Special Education track provides students the opportunity to learn about special education practices to enhance their classroom teaching experience. As part of the overall degree program, students take a variety of practical special education courses.
10. Physical Education: The MSCI Physical Education track seeks to advance the professional repertoire of

students who presently hold entry-level undergraduate degrees and certifications in the areas of teaching, coaching and other related areas. This program is aligned with the advanced professional standards outlined by the National Association for Sport and Physical Education (NASPE). The courses and activities of this track augment the teaching and coaching practices of practitioners' while improving their capacity to conduct and disseminate best-practice research and, improve professional partnerships locally, nationally, and globally.

Content Specializations

1. Elementary Education (18 semester hours)
Select 4 graduate courses (with Advisor approval) from the following areas in the School of Education and Human Development (no more than 6 semester hours from any one area):

- Art Education
- Early Childhood Education
- Mathematics Education
- Reading
- TESOL
- Science Education
- Social Studies Education
- Special Education

Select 2 graduate courses (with Advisor approval) from the following areas in the College of Arts, Sciences and Education:

- Linguistics
- Psychology
- Sociology

2. English Education (18 semester hours)
Select (with Advisor approval) 6 graduate level courses in English/English Education.

3. Learning Technologies (18 semester hours)

EME 6408	Microcomputers as Teaching Tools	3
EME 5602	Multimedia in the Classroom	3
EME 6412	Educational Courseware Evaluation and Development	3
IDC 5013	Computer Science Education for Middle School Teachers	3
IDC 5014	Computer Science Education for High School Teachers	3
EME 6905	Directed Study: Computer Education	3

4. Mathematics Education (18 semester hours)
Select (with Advisor approval) 6 graduate level courses in Mathematics/Mathematics Education.

5. Modern Language Education (18 semester hours)

Grammar/Composition/Syntax (Specialize in language when possible)		3
Culture/Civilization (Specialize in culture of target language when possible)		3
Linguistics (Specialize in language when possible; course in phonology or phonetics preferred)		3
Literature (in the target language)		3
Applied Linguistics		3
TSL 5245	Developing Language and Literacy	3
TSL 6908	Field Component	3
	or	
FLE 6925	Special Topics in Second Language Education	3

6. Science Education (18 semester hours)
Select (with Advisor approval) 6 graduate level courses in the Sciences/Science Education.

7. Social Studies Education (18 semester hours)
Select (with Advisor approval) 6 graduate level courses in the Social Sciences/Social Studies Education or Area Studies: African-New World Studies, Asian Studies, Latin American and Caribbean Studies, European Studies. Students are encouraged to take courses with a global/international perspective.

8. Physical Education (18 semester hours)

PET 5216	Sport and Exercise Psychology	3
PET 5052	Motor Learning for Sport Perf.	3
PET 5256	Sociology of Sport	3
PET 5426	Curriculum in Physical Education	3
	or	
PET 5436	Physical Education Curriculum: K-8	3
PET 5948	Practicum in Kinesiology	3
PET 6597	Research in Kinesiology	3

9. Special Education (18 semester hours)

EEX 5075	Teaching Students with Disabilities in Inclusive Settings*	3
EEX 5068	Instructional Practices ESE I	3
EEX 5608	Behavioral Approaches to Classroom Learning Management	3
EEX 5766	Instructional and Assistive Technology in Special Education	3
EEX 6225	Assessment of Students with Exceptionalities	3
EEX 6106	Acquisition of Speech and Language Skills	3

*If students have already taken EEX 3070 at the undergraduate level, then they will instead take EEX 6051 Education of Students with Exceptionalities.

10. Curriculum Development (18 semester hours)

EDG 5417	Fundamentals of Learning	3
EDE 6205	Curriculum Design in Childhood Education	3
ESE 6215	Secondary School Curriculum	3
EDG 6286	Curriculum Evaluation	3
EDG 6920	Colloquium in Curriculum and Instruction	3
EDG 7692	Politics of Curriculum	3

Master of Science in Early Childhood Education

Degree Program Hours: (30)

The Master of Science degree in Early Childhood Education provides graduate training in the understanding and teaching of children from birth to eight. The program provides students with a foundation in curriculum and instruction and specialization in learning and development during early childhood.

Admissions Requirements

Applicants must meet the minimum University Graduate School admissions requirements. Specific requirements for admissions into the M.S. degree in Early Childhood Education are as follows:

1. A Bachelor's Degree from an accredited institution in education, psychology, human development, or

related field with a 3.0 GPA on a 4.0 scale in the last 60 hours of undergraduate work.
2. Two (2) letters of recommendation to support the applicant. Letters and any other supporting documents are to be sent to Graduate Admissions Office at Florida International University, PO Box 659004, Miami, Florida, 33265 to complete the application for admissions.
3. A statement of intent describing the applicant's personal and professional goals in relation to (a) how the program will help the applicant reach these goals and (b) how the applicant's goals are consistent with the program's mission.
4. A current resume/curriculum vitae that includes, at a minimum, educational history (with relevant courses listed), employment background, and relevant/related experiences.

Program Requirements

The M.S. in Early Childhood Education program requires all students to take 12 hours of foundation courses in curriculum and instruction and in methods/statistics. Students take an additional 15 hours within early childhood education/development, and 3 hours of education-related electives.

A. General Courses: (12 hours)

1. Foundations (9 hours)

EDF 6211	Psychological Foundations of Education	3
EEC 6261	Education Programs for Younger Children	3

Choose one (1) course in social, philosophical, and/or historical foundations of education, such as EDF 6608 or equivalent special topic (EEC 5926) course.

2. Research Methods & Data Analysis (3 hours)

EDF 5481	Foundations Educational Research	3

B. Early Childhood Education/Development (15 hours)

1. Required Courses (9 hours)

EEC 6678	Research in Early Childhood Education	3
EEC 6705	Typical and Atypical Child Development	3
EEC 6277	Thinking and Learning in the 21st Century	3

2. Early Education Elective Courses (6 hours)

Select two (2) advisor-approved electives in Early Childhood Education, such as

EEC 6932	Seminar in Early Childhood Education	3
LAE 5415	Children's Literature	3
MAE 6305	Instruction in Early Childhood Mathematics	3
SCE 6306	Instruction in Early Childhood Science	3
RED 6305	Instruction in Early Childhood Reading	3

C. Elective Course OR Thesis (3 hours)

Select one (1) advisor approved elective in education, psychology, human development, or related field. Students may opt to complete a thesis instead of taking an elective course.

Graduation Requirements

Students must meet all Department, College, Graduate School, and University graduation requirements. No grades of "C-" or less received in courses that are part of a masters program of study will be accepted toward graduation.

Master of Science in Foreign Language Education

The Master of Science in Foreign Language is designed to provide specialized training and content knowledge for teachers of all levels of foreign language, K through 12, adult education, and community college education.

Degree Program Hours: (33)

Admission Requirements

To be admitted into the Master's degree program, a student must:
1. Hold a bachelor's degree from an accredited university or college;
2. Have a 'B' (3.0) average or higher in all junior and senior year course work for the bachelor's degree;
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
4. Two (2) letters of recommendation to support the applicant.
5. A statement of intent describing the applicant's personal and professional goals in relation to (a) how the program will help the applicant reach these goals and (b) how the applicant's goals are consistent with the program's mission.
6. A current resume/curriculum vitae that includes, at a minimum, educational history (with relevant courses listed), employment background, and relevant/related experiences.

Prerequisites

One course in general linguistics or the successful completion of LIN 3010 or LIN 3013.

Professional Education: (9)

EDF 5481	Foundations of Educational Research	3
EDF 6211	Psychological Foundations of Education	3
EDF 6608	Social, Philosophical, and Historical Foundations of Education	3

Program Courses: (6)

FLE 6336	Methods of Teaching Modern Language	3
FLE 6938	Seminar in Second Language Testing	3

Teaching Field: Modern Language (15)

Grammar/Composition/Syntax (Specialize in target language when possible)	3
Culture/Civilization (Specialize in culture of target language when possible)	3
Linguistics (Specialize in target language when possible)	3
Literature in the target language	3
Applied Linguistics	3

Field Component: (3)

FLE 5908	Directed Study Foreign Language Education	1-3
	or	
FLE 6925	Special Topics in Second Language Education	3

Graduation Requirements: Students must meet all Department, College, Graduate School, and University graduation requirements. Students must have a 3.0 GPA to graduate from the program. No grades of "C-" or less received in courses that are part of a master's program of study will be accepted toward graduation.

Thesis Option: Students may opt to extend the MS program (3 to 6 additional thesis credit hours) by request.

Master of Science in Foreign Language Education: TESOL Track

The Master of Science in Foreign Language: TESOL Track is designed to provide specialized training and content knowledge for teachers of all levels of foreign language, K through 12, adult education, and community college education. Student who are state certified teachers may include the five courses required for the Add-on ESOL Endorsement as part of the Master's program.

Degree Program Hours: (36)

Admission Requirements

To be admitted into the Master's degree program, a student must:

1. Hold a bachelor's degree from an accredited university or college;
2. Have a 'B' (3.0) average or higher in all junior and senior year course work for the bachelor's degree;
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
4. Two (2) letters of recommendation to support the applicant.
5. A statement of intent describing the applicant's personal and professional goals in relation to (a) how the program will help the applicant reach these goals and (b) how the applicant's goals are consistent with the program's mission.
6. A current resume/curriculum vitae that includes, at a minimum, educational history (with relevant courses listed), employment background, and relevant/related experiences.

Degree Requirements

The Master of Science degree consists of 36 semester hours. A maximum of six semester hours may be transferred into the program from outside the University, subject to the approval of the major advisor. A maximum of six semester hours of graduate level courses taken as an undergraduate may be included in the program provided they have not been used to satisfy degree requirements for an undergraduate program.

Prerequisites

Introduction to Linguistics is the prerequisite for the Linguistics courses in the program. It may be satisfied with LIN 3010, LIN 3013, or LIN 5018.

Professional Education: (9)

EDF 5481	Foundations of Educational Research	3
EDF 6608	Social, Philosophical, and Historical Foundations of Education	3
EDF 6211	Psychological Foundations of Education	3

Program Courses: (18)

TSL 5245	Developing ESOL Language and Literacy	3
TSL 5371	Special Methods of TESOL	3
TSL 5938	Principles of ESOL Testing	3
TSL 6908	Field Component	3
LIN 5211	Applied Phonetics	3
LIN 5501	English Syntax	3

Electives: (9)

Students will choose nine semester hours according to their needs, with the approval of the advisor. To meet state ESOL requirements, certified teachers (K-12) need to include in their electives the following courses:

TSL 5142	Curriculum Development in English as a Second Language	3
EDG 5707	Cultural and Cross-Cultural Studies	3

Graduation Requirements

To receive the Master of Science degree in TESOL, the student must complete the required 36 semester hours of course work with a minimum 'B' or 3.0 grade point average and no grades of "C-" or less received in courses that are part of a master's program of study will be accepted toward graduation.

Master of Science in Foreign Language Education: TiCC Track

The Master of Science in Foreign Language TiCC Track is designed to provide specialized training and content knowledge for teachers of second or additional languages, from primary to tertiary stages of education, in challenging domestic and international contexts.

Degree Program Hours: (30)

Admission Requirements

To be admitted into the Master's degree program, a student must:

1. Hold a bachelor's degree from an accredited university or college;
2. Have a 'B' (3.0) average or higher in all junior and senior year course work for the bachelor's degree;
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
4. Two (2) letters of recommendation to support the applicant.
5. A statement of intent describing the applicant's personal and professional goals in relation to (a) how the program will help the applicant reach these goals and (b) how the applicant's goals are consistent with the program's mission.
6. A current resume/curriculum vitae that includes, at a minimum, educational history (with relevant courses listed), employment background, and relevant/related experiences.

Degree Requirements

The Master of Science degree consists of 30 semester hours. A maximum of six semester hours may be transferred into the program from outside the University, subject to the approval of the major advisor. A maximum

of six semester hours of graduate level courses taken as an undergraduate may be included in the program provided, they have not been used to satisfy degree requirements for an undergraduate program.

Program Courses

FLE 6336	Methods of Teaching Modern Language	3
FLE 6938	Seminar in Second Language Testing	3
TSL 5245	Developing ESOL Language and Literacy	3
TSL 6908	Field Component	
TSL 5142	Curriculum Development	3
TSL 6350	Troublesome English	3
EDG 5707	Cross-cultural Studies	3
TSL 5086	Bilingualism and Multilingualism in Language Education	3
FLE 6376	Teaching in Challenging and Remote Circumstances	3
TSL 5253	Love and Language	3

Graduation Requirements

To receive the Master of Science degree in Foreign Language Education, the student must complete the required 30 semester hours of course work with a minimum 'B' or 3.0 grade point average. Furthermore, no more than 2 grades of C or C+ and no grades of "C-" or less received

Master of Science in Kinesiology and Exercise Science

This degree prepares graduates to pursue the fields of exercise science, movement behavior, strength and conditioning, mental performance, research, coaching elite athletes in sports and health and human performance. This degree does not provide teacher certification for the degree recipients. Examples of potential student clientele would include all international and domestic college graduates with bachelor's degrees in sports science, education, sport industry, the social sciences, and other areas.

Admission Requirements

Students must hold a bachelor's degree from an accredited university and have a 3.0 GPA for the last 60 hours of upper-division coursework, and include a personal statement addressing career goals and aspirations and three letters of professional recommendation accompanying the application. The published university requirements for admission into the master's degree programs must be met. Students who do not have an undergraduate major in a movement science related area, must hold a certification accredited by the National Commission for Certifying Agencies (NCAA; e.g., Certified Personal Training, Strength and Conditioning Certification), other certifications may be approved by program advisor. Students who do not hold appropriate certification or degree are responsible for meeting the prerequisites for any course listed in the program's curriculum, which are listed below. Advisors must approve pre-requisite course competency substitutions.

APK 3110	Exercise Physiology	3
PEP 4102	Applied Concepts of Fitness and Health	3
PET 3310	Kinesiology	3
PET 3325L	Kinetic Anatomy	3
PET 4622	Athletic Injuries	3

Degree Requirement: (30 credit hours)

A program advisor must be consulted regarding completion of degree requirements.

Core Requirements (12 credit hours)

PET 5216	Sport and Exercise Psychology	3
PET 5052C	Motor Learning for Sport Performance	3
APK 5111	Advanced Exercise Physiology	3
PET 6597	Research in Kinesiology	3

Kinesiology Courses (select 12 credit hours)

PET 5256	Sociology of Sport	3
PET 6944	Supervised Field Experience	3
PET 5206	Youth Sports	3
PET 5368	Exercise, Diet and Weight Management	3
PET 5693	Athletic Performance Assessment and Exercise Prescription	3
PET 5391C	Comprehensive Conditioning of Elite Athletes	3
PEP 5115	Strength and Conditioning Techniques for Human Performance	3
APK 6090	Professional and Ethical Issues in Kinesiology	3
APK 6411	Exercise Psychophysiology and Neuroscience	3
APK 6713	Applied Sport and Performance Psychology	3
PET 6932	Seminar in Kinesiology	3
PET 5936	Special Topics in Kinesiology & Exercise Science	3

Electives: (6)

Potential electives include additional kinesiology courses and EDF research courses. Please consult with an advisor for appropriate courses.

Master of Science in Reading/Literacy Education

The Master of Science in Reading/Literacy Education develops competencies in diagnosis and remediation, teaching of reading K to 12, and administration and supervision of remedial, corrective, developmental, and content area reading programs. The graduate is competent to take leadership in improving reading instruction and preventing reading failure in schools or clinics.

Requirements for admission to the Master's program in Reading/Literacy Education are a Bachelor's Degree in Education and possess or be eligible for State of Florida professional teaching certificate, pass State of Florida Certification exams, and a 3.0 GPA or higher for the last 60 hours of upper-division coursework.

This master's track is designed to meet the needs of students interested in reading assessment and instruction. This track leads to state certification.

Degree Program Hours: (36)

Required sequence of courses:

RED 6314	Theory and Instruction in Literacy	3
LAE 6319	Integrated Language Arts	3
LAE 5415	Children's Literature	3
EDF 6211	Psychological Foundations of Education	3

RED 6336	Content Area Reading	3
EDF 5481	Foundations of Educational Research	3
RED 6546	Diagnosis of Reading Difficulties	3
RED 6515	Programs of Remediation in Reading	3
RED 6747	Research in Reading	3
RED 6540	Reading Assessment	3
RED 6805	Practicum in Reading	3
RED 6247	Organization and Supervision in Reading	3

Entry to Program

Students are encouraged to meet all admission requirements prior to beginning the program; however, students may take a maximum of twelve (12) semester hours of course work applicable to the program prior to admission. Only courses with a grade of "B" or better taken prior to admission can be included.

Graduation Requirements

Students must have a 3.0 GPA to graduate from the program. No grades of "C-" or less received in courses that are part of a Master's program of study will be accepted toward graduation. All candidates must pass all sections of the Florida Teacher Certification Exam (FTCE), which includes the General Knowledge (GK), Professional Education and the Reading Subject Area Exams. All MS in Reading/Literacy Education students must have ESOL Endorsement or have taken TSL 5361C prior to graduation. Also, students must demonstrate successful completion of the Florida Educator Accomplished practices. Students must submit evidence of passing all sections of the FTCE exam prior to the end of the final week of the semester in which they are applying for graduation.

Thesis Option: Students may opt to extend the MS program (6 additional thesis credit hours) by request.

Master of Science Degree in Special Education

The major competencies in the Master's Degree program in Special Education are an extension and refinement of those developed by the student in the undergraduate special education curriculum.

Program applicants are required to submit an on-line application to the Office of Graduate Admissions, three letters of recommendation (at least one from academic sources and one from work or volunteer experience), and an autobiographical statement. Candidates are admitted by action of the Department's Graduate Admissions Committee. Criteria for program acceptance include undergraduate grade point average of 3.0 or higher for the last 60 hours of upper division coursework, work and volunteer experience, quality and source of letters of recommendation, and the candidate's career aspirations and goals. Applicants with less than a 3.0 GPA may be granted conditional admittance. These applicants must take 12 graduate credits and earn a 3.25 GPA to be considered for full admittance. Applicants who do not hold a valid Florida Teaching Certificate must complete all requirements for certification in addition to degree requirements. There are some variations in entrance requirements for in-field vs. out-of-field majors. See specifics under each description that follows. Letters and any other supporting documents are to be sent to Graduate Admissions Office at Florida International University, PO Box 659004, Miami, Florida, 33265 to complete the application for admissions.

In-Field Majors

The following master's program of study is for the student who holds Florida certification in the field of special education. To qualify for admission to the program, students must have the following:

1. An undergraduate GPA of 3.0 or higher in the last 60 credit hours of undergraduate study.
2. A valid Florida teaching certificate in special education. If the applicant does not hold a valid Florida teaching certificate, all certification requirements must be met.
3. Three letters of recommendation with at least one from an academic source and one from work or volunteer experiences.
4. A well written autobiographical statement.

Degree Program Hours: (36)

Required Core For All Students: (24)

EDF 5481	Foundations of Educational Research	3
EEX 6848	Seminar in Special Education: Issues and Trends	3
EEX 6535	Seminar in Special Education: Supervision and Leadership	3
EEX 6912	Advanced Theory and Research in Special Education	3
EEX 6765	Instructional Technology	3
EEX 6228	Integration of Assessment, Curriculum and Instruction	3
EEX 6796	Culturally and Linguistically Diverse Exceptional Learners	3
EEX 6756	Working with Families of Students with Disabilities through Collaborative Approaches	3

Area of Concentration: (12)

Area of concentration may be selected from an endorsement such as Autism or Early Childhood Special Education, or other areas as planned and approved by student and advisor.

*EEX 6912 is a prerequisite for EEX 6228

Master of Science Degree in Special Education: Autism Endorsement Specialization – Fully Online

The online Master of Science in Special Education is completed in one year and consists of six accelerated eight-week terms. Students enroll in 4 courses (12 credits) each semester and complete two courses each 8-week term in the semester. A total of 36 credit hours (12 courses) is necessary to complete the program. The area of specialization for this degree is Autism Endorsement.

Degree Program Hours: (36)

Required Core Courses: (24)

EEX 6912	Advanced Theory and Research in Special Education	3
EEX 6796	Culturally and Linguistically Diverse Exceptional Learners	3
EDF 5481	Foundations of Educational Research	3

EEX 6765	Instructional Technology	3
EEX 6228	Integration of Assessment, Curriculum and Instruction	3
EEX 6848	Seminar in Special Education: Issues and Trends	3
EEX 6535	Seminar in Special Education: Supervision and Leadership	3
EEX 6756	Working with Families of Students with Disabilities through Collaborative Approaches	3

Autism Courses: (12)

EEX 5210	Assessment and Strategies for Students with Autism Spectrum Disorders	3
EEX 5767	Assistive and Instructional Technology and Alternate/Augmentative Systems for Students with Autism	3
EEX 5619	Behavioral Management and Positive Behavioral Supports for Students with Autism Spectrum Disorders	3
EEX 5095	Nature and Needs of Students with Autism Spectrum Disorders	3

Educational Specialist in Teaching and Learning

Degree Program Hours: (60)

The Educational Specialist Degree (Ed.S.) in Teaching and Learning is offered for teachers and other professional educators who are seeking an advanced graduate degree. The program introduces professional educators to the theoretical basis of curriculum and instruction and provides opportunities for students to connect theory with practice. The following areas of specialization are offered: Curriculum, Cultural and Social Studies; Elementary Education and Early Childhood Education; Kinesiology; Language, Literacy, Literature, and Culture; Science, Technology, Engineering, and Mathematics (STEM) Education; and Special Education. The program requires a minimum of 36 semester hours beyond the masters or 60 semester hours past the bachelors.

Admission Requirements

Minimum admissions requirements for the Ed.S Program in Teaching and Learning are as follows:

1. A Bachelor's Degree from an accredited institution in an appropriate area with a 3.0 GPA on a 4.0 scale on the last 60 hours of undergraduate work or a 3.25 GPA in a completed Master's Degree from an accredited program.
2. Official GRE scores.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
4. Three letters of recommendation addressing the applicant's academic abilities. Letters and any other supporting documents are to be sent to Graduate Admissions Office at Florida International University, PO Box 659004, Miami, Florida, 33265 to complete the application for admissions.
5. A letter of intent.
6. An admissions interview by the Teaching and Learning Admissions Committee.

The Teaching and Learning Admissions Committee will review, interview, and make admissions recommendation for each applicant. The GPA and GRE scores stated above are minimum requirements. Meeting the minimum requirements does not guarantee admission.

The Ed.S Degree requires 60 semester hours beyond the bachelor's degree. Students with a master's degree directly related to the area of concentration must complete a minimum of 36 semester hours at FIU beyond their master's degree.

A maximum of 24 credits from a completed master's degree in Teaching and Learning or related field from an accredited institution may be applied toward the Ed.S. with advisor's approval.

The Ed.S. program of study includes three required components (to include a maximum of 24 credits from a completed master's degree):

1. Teaching and Learning Core (9 semester hours)
2. Research Inquiry and Analysis (12 semester hours)
3. Major Area of Specialization (39 semester hours)

The Teaching and Learning Core includes a coherent sequence of courses and experiences required of all students.

Teaching and Learning Core: **(9 semester hours)**

EDG 7923C	Doctoral Seminar in Curriculum Studies	3
EDG 7362	Instruction: Theory and Research	3
EDG 7692	Theory, Organization, and Policy in Teaching and Learning	3

2. Research Inquiry and Analysis: (12 semester hours)
(Select **at least 12** semester hours with approval of Major Professor/Committee on appropriate course selection)

At least 12 semester hours of advanced coursework to include at least one quantitative and one qualitative methods course related to the comprehensive exam component on research.

3. Major Area of Specialization: (No less than 39 semester hours)
(Select **at least 39** semester hours with approval of Major Professor/Committee on appropriate course selection). All courses must be at the 5000 level or higher.

Ph.D. Program in Teaching and Learning

The Department of Teaching and Learning offers the Ph.D. program in Teaching and Learning with concentration in Curriculum, Cultural and Social Studies; Elementary Education and Early Childhood Education; Kinesiology; Language, Literacy, and Culture; Science, Technology, Engineering, and Mathematics (STEM) Education; and Special Education. The program is offered to prospective students who will become scholars engaged in studies within broad historical, social, political, economic, linguistic, and intellectual contexts in the country and abroad. The program seeks to produce

research scholars who are well-equipped for empirical and systematic examinations of educational theories, strategies, principles, and practices related to the content and organization of teaching and learning and to the process and outcome of instruction. The Ph.D. program in Teaching and Learning enables highly select students of demonstrated ability, industry, and motivation to serve as apprentices to mentors who are established scholars in their fields of study. Under the supervision of a faculty mentor, the students engage in a period of extensive study and investigation that culminates in the demonstrations of expertise, creativity and originality by means of independent research.

Admission Requirements

Minimum admissions requirements for the Ph.D. Program in Teaching and Learning are as follows:

1. A Bachelor's Degree from an accredited institution in an appropriate area with a 3.0 GPA on a 4.0 scale on the last 60 hours of undergraduate work or a 3.25 GPA in a completed Master's Degree from an accredited program.
2. Official GRE scores.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
4. Three letters of recommendation addressing the applicant's academic abilities. Letters and any other supporting documents are to be sent to Graduate Admissions Office at Florida International University, PO Box 659004, Miami, Florida, 33265 to complete the application for admissions.
5. A letter of intent.
6. An admissions interview by the Teaching and Learning Admissions Committee.

The Teaching and Learning Admissions Committee will review, interview, and make admissions recommendation for each applicant. The GPA and GRE scores stated above are minimum requirements. Meeting the minimum requirements does not guarantee admission.

The Ph.D. Degree requires 75 semester hours beyond the bachelor's degree. Students with a master's degree directly related to the area of concentration must complete a minimum of 51 semester hours at FIU beyond their master's degree; this includes 15 hours of Dissertation credits, directed by a qualified graduate faculty dissertation chair in the appropriate area of: Curriculum, Cultural, and Social Studies; Elementary Education and Early Childhood Education; Kinesiology; Language, Literature, Literacy, and Culture, Science, Technology, Engineering, and Mathematics (STEM) Education; or Special Education.

A maximum of 24 credits from a completed Master's degree in Teaching and Learning or related field from an accredited institution may be applied toward the Ph.D. with advisor's approval.

The Ph.D. program of study includes four required components:

1. Teaching and Learning Core (9 semester hours)
2. Research Inquiry and Analysis (12 semester hours)
3. Major Area of Specialization (39 semester hours)
4. Independent Research and Dissertation (15 semester hours minimum)

1. The Teaching and Learning Core includes a coherent sequence of courses and experiences required of all students.

Teaching and Learning Core: **(9 semester hours)**

EDG 7923C	Doctoral Seminar in Curriculum Studies	3
EDG 7362	Instruction: Theory and Research	3
EDG 7692	Theory, Organization, and Policy in Teaching and Learning	3

2. Research Inquiry and Analysis: (12 semester hours)
(Select **at least 12** semester hours with approval of Major Professor/Committee on appropriate course selection)

At least **12** semester hours of advanced coursework to include at least one quantitative and one qualitative methods course related to dissertation and the comprehensive exam component on research.

3. Major Area of Specialization: (39 semester hours)
(Select at least 39 semester hours with approval of Major Professor/Committee on appropriate course selection.) All courses must be at the 5000 or higher level.

- Curriculum, Cultural, and Social Studies
- Early Childhood Education and Elementary Education
- Kinesiology
- Language, Literature, Literacy, and Culture
- Science, Technology, Engineering, and Mathematics (STEM) Education
- Special Education

4. Independent Research and Dissertation: (15 Semester Hours)
The dissertation will demonstrate the student's ability to conduct research of substantial rigor and contribute to advancing the knowledge base and scholarship in an area within the field of Teaching and Learning

EDG 7980	Doctoral Dissertation	24

Candidacy Examination and Admission to Candidacy
To be admitted to candidacy, a student must complete all coursework. The student must also successfully pass the candidacy examinations covering course work approved by the Program of Study Committee. Candidates then submit copies of a dissertation proposal, which has been approved by the research committee, to the Dean of the School of Education and Human Development and to the Dean of the University Graduate School.

Add-on Endorsement in ESOL

Individuals who currently hold or are working toward teacher certification in Elementary, English, Foreign Language Education, or Special Education, may be eligible to receive the Add-on Endorsement in ESOL by completing the following set of courses:

Required Courses

EDG 5707	Cultural and Cross-Cultural Studies	3
TSL 5142	Curriculum Development in ESOL	3
TSL 5245	Developing ESOL Language and Literacy	3
TSL 5371	Special Methods of TESOL	3
TSL 5938	Principles of ESOL Testing	3

Students enrolled in the Ph.D. program may receive an Ed.S. degree in Teaching and Learning en route to their Ph.D. Doctoral students who have advanced to candidacy, are currently enrolled, in good academic standing, and have completed all requirements for the specialist degree can be recommended for the specialist degree with prior departmental approval. If students enter without a master's degree and have completed 36 credit hours within their area of concentration, those students can be recommended for the master's degree with prior departmental approval.

Graduate Certificate Program in Grades K-5 Mathematics Teaching

The K-5 Mathematics Teaching Certificate Program enables teachers to extend their competence in teaching mathematics in elementary school. It will enhance their understanding of mathematics content, problem solving and reasoning and their knowledge of ways of teaching mathematics to students from diverse and minority backgrounds. Completion of the certificate will better prepare individuals for teaching in elementary schools that have departmentalization by subjects in elementary grades. Entrance requirements are Bachelor's degree and a 3.0 GPA in the last two years of college work. This certificate program is open to non-degree-seeking students only.

Required Courses

MAE 5348	Numbers and Operations for Teaching in Grades K-5	3
MAE 6357	Elements of Algebra and Data Analysis for Teaching in Grades K-5	3
MAE 6358	Elements of Geometry and Measurement for Teaching in Grades K-5	3
MAE 6318	Instruction in Elementary Mathematics	3
MAE 5945	Practicum: Mathematics Education	3

With the approval of the Graduate Program Director, up to 12 graduate credits taken in the graduate certificate may be transferred into a master's degree program. If a certificate student is admitted to a master's degree program before the student has completed more than 12 graduate credits, all the credits earned in a graduate certificate program may be used toward fulfilling the requirements of the master's degree program.

Graduate Certificate Program in Grades 6-12 Mathematics Teaching

The 6-12 Mathematics Teaching Certificate Program enables teachers to extend their competence in teaching 6-12 grade mathematics. It will deepen their understanding of mathematics content, problem solving and reasoning and their knowledge of ways of teaching mathematics to 6-12 grade students from diverse and minority backgrounds. Completion of the certificate will better prepare individuals for teaching mathematics in secondary schools. Entrance requirements are Bachelor's degree and a 3.0 GPA in the last two years of college work.

Required Courses

MAE 5382	Number Systems, Rational Numbers, and Operations for Teaching in Secondary School	3
MAE 6337	Algebra, Statistics and Probability for Teaching in Secondary School	3
MAE 6381	Proportional Reasoning, Geometry and Measurement for Teaching in Secondary School	3
MAE 6336	Teaching Mathematics in the Secondary School	3
MAE 5945	Practicum: Mathematics Education	3

With the approval of the Graduate Program Director, up to 12 graduate credits taken in the graduate certificate may be transferred into a graduate degree program (e.g., MS, EdS, EdD or PhD). If a certificate student is admitted to a graduate degree program before the student has completed more than 12 graduate credits, with permission of their program director, all the credits earned in a graduate certificate program may be used toward fulfilling the requirements of the graduate degree program.

Professional Graduate Certificate in Spanish/English Bilingual Education

Entrance requirements are Bachelor's degree and a 3.0 GPA in the 60 credit hours of upper-division coursework or graduate coursework. This certificate program is open to non-degree-seeking students only.

Required Courses (15 credits)

Core Courses (9 credits)

FLE 5895	Bilingual Education Teaching Methodologies	3
FLE 6938	Seminar in Second Language Testing	3
EDG 5707	Cultural and Cross-Cultural Studies	3

Teaching Methods (3 credits)

Students choose one of the following courses:

FLE 6336	Methods of Teaching Modern Language	3
FOL 5943	Foreign Language Teaching Methodology	3
TSL 5142	Curriculum Development in English as a Second Language	3
TSL 6348	Task-Based Language Teaching	3

Studies in Bilingualism (3 credits)

Students choose one of the following courses:

LIN 5625	Studies in Bilingualism	3
SPN 5736	Spanish as a Heritage Language: Acquisition and Development	3
FLE 6925	Special Topics in Second Language Education	1-3

Graduate Certificate Program in TESOL (Teaching English to Speakers of Other Languages)

The TESOL Certificate Program enables teachers to extend their competence in teaching foreign languages, particularly English. Completion of the TESOL Certificate Program qualifies the candidate to receive a Florida State Endorsement in Teaching English to non-Speakers, grades K-12. The program also assists prospective teachers to receive a professional credential that may assist them in successful employment in other countries. Entrance requirements are Bachelor's degree and a 3.0

GPA in the last two years of college work. This certificate program is open to non-degree-seeking students only.

Required Courses

TSL 5371	Special Methods of TESOL	3
TSL 5245	Developing ESOL Language and Literacy	3
TSL 5142	Curriculum Development in ESOL	3
TSL 5938	Principles of ESOL Testing	3
EDG 5707	Cross-cultural Studies	3

Additionally, one other course may be chosen from the following list:

LIN 5501	English Syntax
LIN 5211	Applied Phonetics
LIN 6085	Research Methods in Experimental Linguistics
LIN 5107	History of English Grammar
LIN 5431	General Morphology/Syntax
LIN 5574	Languages of the World
LIN 5601	Sociolinguistics
LIN 5625	Studies in Bilingualism
LIN 5715	Language Acquisition
LIN 5733	Teaching Accent Reduction
LIN 5825	Pragmatics
LIN 6323	General Phonology
LIN 6562	Discourse Analysis
LIN 6805	Semantics
RED 5925	Instructional Thinking Strategies
EEX 6051	Educational Needs of Students with Exceptionalities
EDF 5255	Secondary Classroom Management
RED 6336	Reading in the Content Area
LAE 5426	Multicultural Perspectives in Teaching Language and Literature for Young Adolescents
TSL 6908	Field Component

Course Descriptions

Definition of Prefixes

ADE - Adult Education/Human Resource Development; AFA - African-New World Studies; CGS - Computer Applications; CHD - Child Development; EAP - English as a Second Language for Academic Purposes; EBD - Education: Emotional/Behavioral Disorders; ECT - Education: Career/Technical; ECW - Education: Career/Workforce; EDA - Education: Educational Leadership; EDE - Education: Elementary; EDF - Education: Foundations; EDG - Education: General; EDH - Education - Higher; EDP - Education: Psychology; EDS - Education: Supervision; EEC - Education: Early Childhood; EEX - Education: Exceptional Child, Core Competencies; EGI - Education: Exceptional Child, Gifted; EIA - Education: Technology; ELD - Education: Specific Learning Disabilities; EME - Education: Technology and Media; EMR - Education: Mental Retardation; ESE - Education Secondary; ETE - Education: Technology Education; EVT - Education: Vocational/Technical; FAD - Family Development; FLE - Foreign Language Education; HEE - Home Economics Education; HHD - Housing; HLP - Health, Leisure, and Physical Education; HME - Home Management Equipment; HOE - Health Occupations Education; HSC - Health Sciences; LAE - Language Arts and English Education; LBS-Labor Studies; LEI - Leisure; MAE - Mathematics Education; MHS - Mental Health Services; MUE - Music Education; PEL - Physical Education; PEM - Physical Education Activities; PEO - Physical Education Activities; PEP - Physical Education Activities; PET - Physical Education Therapy; RED - Reading Education; SCE - Science Education; SDS - Student Development Services; SPM - Sports Management; SPS - School Psychology; SSE - Social Studies Education; TSL - TESOL.

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering; ALT-alternate years; AR-as required.

AFA 6325 Pedagogy in the African Diaspora: Literacy, Culture, Race and Gender (3). This course explores pedagogy broadly throughout the African Diaspora through critical examinations of race, culture, gender and praxis. The course provides opportunities for research in schooling, teacher preparation and gender/class/race based literacy at home and abroad.

APK 6090 Professional and Ethical Issues in Kinesiology (3). This course provides an understanding of ethics and standards for professional practice in Kinesiology The course applies various ethical, professional, and legal standards to professional practice.

APK 6713 Applied Sport and Performance Psychology (3). his course examines current research and practice in applied sport psychology settings. The course takes a scientist-practitioner approach linking theory, research, measurement, and applications

APK 5111 Advanced Exercise Physiology (3). This course provides a detailed examination of the acute and chronic responses to exercise and training. Particular attention is given to responses at the systems and cellular levels. Prerequisite: APK 3110.

APK 5931 Special Topics in Exercise Physiology (1-3). This course presents contemporary issues and practices in exercise physiology. Prerequisite: APK 3110. (AR)

APK 6118C Rehabilitation Techniques in Athletic Training with Lab (4). Introduction to basic principles of rehabilitation of athletic injuries, including range of motion, pain control, balance, proprioception, strengthening, and endurance. Prerequisite: PET 4642C. Corequisite: PET 5678.

APK 6411 Exercise Psychophysiology and Neuroscience (3). This course provides an introduction to exercise psychophysiology and neuroscience. Emphasis will be on perceptual, psychological, and psychophysiological responses to exercise and sport tasks.

CHD 5266 Advanced Studies in Child Development (3). Survey of current literature on selected areas, analysis of trends and issues, and investigation of recent research in Child Development. Prerequisites: CHD 3220, CHD 4210 or equivalent. (AR)

CGS 5410 Logo for Educators (3). Aspects of Logo as used by educators. Creative aspects, the language, philosophy, structure, and application. Prerequisites: Computers in Classroom or equivalent. (AR)

CGS 5413 PILOT for Educators (3). Authoring language PILOT for teachers. Designed to develop language and its application to all levels of education. Prerequisites: EME 6405 or equivalent. (AR)

EAP 5835 English Communication and Pedagogy for International Teaching Assistants (3). Course to assist international teaching assistants in developing intelligibility, intercultural competence, and classroom management skills for U.S. university classroom instruction.

EBD 5225 Strategies for Students with Emotional Handicaps (3). Instructional strategies and specialized approaches for teaching students with emotional handicaps. Extensive field work required. Prerequisites: EDG 5414 and Lab, EEX 6051, EEX 6227, EEX 5608. (S)

EBD 6226 Advanced Theory and Practice: Emotional Handicaps (3). Major theories in the area of behavior disorders, and skills in the application of these theories to education. (S,SS)

ECT 5078 Technical Education in American Society (3). This course will provide students with knowledge of the basic role and current status of technical education in an industrial democracy. It is designed for students interested in post-secondary education. (S)

ECT 5386 Vocational Educational Media (3). This course provides students with knowledge and skill in selecting, developing, and utilizing vocational instructional media forms to communicate or demonstrate concepts. (S)

ECT 5769 Evaluation in Vocational and Technical Education (3). This course provides students with knowledge and skill in the development of criteria, tests, measurements, and analysis of data to assess teaching, learning, and objectives. (F)

ECT 5905 Directed Study in Vocational/Technical Education (1-3). This course includes identification,

research, and reporting on a special problem of interest to the student. Subject to approval of program advisor. (F,S,SS)

ECT 5925 Special Topics in Vocational Education (1-6). This course includes selected competencies related to instructional and technical areas. (AR)

ECT 5927 Special Topics in Health Occupations Education (1-3). This course includes selected topics related to instructional and technical areas. (AR)

ECT 6790 Program Evaluation in Vocational Technical Education (3). Competency: Knowledge and skill needed to conduct a systematic evaluation of vocational-technical education programs.

ECT 6925 Special Topics in Vocational Education (1-6). This course consists of selected topics related to professional and program areas. (AR)

ECT 6930 Seminar in Vocational Education (3). This course includes discussion of special instructional, curricular and/or administrative and supervisory problems and issues in vocational education. Prerequisite: Graduate standing. (F)

ECT 6946 Supervised Field Experience (3-6). This course is an application and refinement of competencies in either classroom, laboratory, or administration and supervision, via school-based field experiences. Placement is subject to approval of program leader. (AR)

ECT 6947 Internship in Vocational Education (3). This course provides students with knowledge and skill in a new leadership setting, relative to the student's selected area of emphasis. (AR)

ECT 7964 Comprehensive Doctoral Examination, Vocational and Technical Education Leadership (0). This is the Comprehensive Doctoral Examination in Vocational and Technical Education Leadership. Prerequisite: Permission of major professor. (F,S,SS)

ECT 7980 Ed.D. Dissertation (1-12). This course consists of research for doctoral dissertation for those students approved for candidacy in the Vocational and Technical Education Leadership Program. Prerequisites: Permission of Major Professor and Doctoral Candidacy. (F,S,SS)

ECT 7985 Dissertation Defense (0). This is the defense of Dissertation. Prerequisites: Permission of major professor and ECT 7980. (F,S,SS)

ECW 5008 Cooperative Vocational Education Programs (3). This course will provide students with knowledge and skill in the basic philosophy, principles, processes, and procedures of the cooperative method in vocational and technical education. (F)

ECW 5168 Curriculum Development in Vocational Education (3). This course provides students with knowledge and skill in analyzing, planning, and developing curriculum in an area of specialization. (S)

ECW 5196 International Comparative Vocational Education (3). This course provides students with knowledge in comparison of vocational education in the United States in terms of purposes, systems, and problems with those of selected foreign countries. (S)

ECW 5206 Supervision and Coordination of Vocational Education Programs (3). This course provides students with knowledge and skill in the supervision of personnel and the coordination of work to achieve institutional goals. (F)

ECW 5315 Improvement of Teaching Strategies in Health Occupations and Nursing Education (3). This course is the first in series of graduate courses designed to prepare qualified health professionals holding bachelor's degrees with professional education skills necessary to become competent teachers. It is approved for "special methods of teaching health occupations education." (AR)

ECW 5665 Trends and Issues in Vocational Education (3). This course provides students with knowledge of the basic philosophical and curricular trends and issues in vocational technical education at the international, national, state, and local levels. (F)

ECW 5695 Community Relations and Resources for Vocational Education (3). This course provides students with knowledge and skill in utilizing community resources and establishing public relations procedures and practices to implement vocational education programs. (SS)

ECW 6007 Theory of Work and Careers in Vocational and Technical Education (3). This course provides students with knowledge of concepts and principles of work, careers, and technology and related individual, social, and economic benefits with implications for vocational and technical education. Prerequisite: Graduate standing. (F)

ECW 6105 Program Planning in Vocational Education (3). Competency: Knowledge and skill necessary to determine vocational program feasibility and implementation of new programs. Prerequisite: Graduate standing.

ECW 6205 Administration of Vocational Education Programs (3). This course provides students with knowledge of the principles, practices, functions, and roles of administration in the operation of vocational education programs. (S)

ECW 6318 Current Issues in Health Occupations and Nursing Education (3). This course is designed to focus qualified health professionals holding a bachelor's degree with professional education skills necessary to identify and conduct research on current issues related to teaching in health occupations education. (AR)

ECW 6596 Vocational Education in a Multicultural Setting (3). This course provides students with knowledge and skill in developing and modifying vocational education programs, materials, and practices for a multicultural setting. (SS)

EDA 6063 Administration of Independent Schools (3). This is a survey course that examines the administration of private schools. (AR)

EDA 6225 Labor Relations in Education (3). This course examines relations between the school board and its employees. (AR)

EDA 6423 Data Analysis for School Improvement (3). This course describes current emerging school practices in the analysis of data; the influence of state accountability on school improvement; and the principal's responsibility in school improvement.

EDA 7943 Field Projects (1-6). This course includes participation by advanced graduate students in field projects and studies. Prerequisite: Permission of the instructor. The course may be repeated with permission of the instructor (AR)

EDE 5041 Issues in Elementary Education (3). Provides understanding, skills, and dispositions needed to build an initial knowledge base as to issues that impact elementary education from the historical, philosophical, sociological, psychological, international and contemporary perspectives. The course serves as an introduction to the field of elementary education. Corequisite: EDE 5XXX.

EDE 5267 Education of the Child in Urban Society (3). For students desiring advanced study in the schooling of inner-city pupils in K-6. Prerequisites: EDF 3723, EDG 3321, EDG 3322. (AR)

EDE 5905 Directed Study in Elementary Education (1-3). Available to graduate elementary majors. Provides for individual investigation in the area of elementary education. Permission of the instructor required. (F,S,SS)

EDE 5925 Special Topics in Elementary Education (3). Available to undergraduate and graduate elementary majors. Provides opportunities to develop skills and knowledge under the guidance of a specialist in a selected area. Permission of the instructor required. (AR)

EDE 6205 Curriculum Design for Childhood Education (3). Required in masters programs in elementary education. A study of curriculum theory, research, construction and evaluation related to elementary schools. (AR)

EDE 6225 Problems in Curriculum and Instruction: Elementary (3). Investigation of current problems and solutions to essential curricular and instructional issues in elementary education. Prerequisites: EDE 6205 or equivalent. (SS)

EDE 6482 Field Research for Educators (3). The first part of a two semester sequence providing the knowledge and skills necessary for conducting research in schools and classrooms by teachers and administrators; using the results of this research to inform practice. Prerequisite: EDF 5481.

EDE 6488 Research in Elementary Education (3). Elective in masters program in elementary education. Required for students in doctoral program. Research in elementary education and the paradigms associated with this research. Prerequisite: EDF 5481. (AR)

EDE 6930 Seminar in Elementary Education (3). Required in masters program in elementary education. Required for students in doctoral program. Advanced study of critical issues and problems in elementary education. (AR)

EDE 6948 Graduate Internship in Elementary Education (1-6). Field based experiences in elementary education provided. Required in modified masters track. Repeatable.

EDE 6971 Thesis in Elementary Education (6). Elective in masters program in elementary education. Design and preparation of an original scholarly investigation in elementary education. Prerequisites: EDF 5481, EDE 6488, and consent of instructor. Corequisite: EDE 6930. (F,S,SS)

EDE 7935 Doctoral Seminar in Elementary Education (3). Required for students in doctoral program. Advanced doctoral study of current theories and research related to elementary education. Prerequisites: EDE 6488 and EDE 6930. (AR)

EDF 5216 Effective Learning in the Classroom (3). A behavioral approach to effective teaching techniques, including theoretical background, behavioral definitions, writing effective objectives, and evaluation of effective learning in the classroom. A field experience will be included. (AR)

EDF 5255 Classroom Management (3). Provides teachers' understandings, skills, and dispositions for successful classroom management. Prerequisite: EDP 5053. Corequisite: EDG 5414.

EDF 5432 Measurement and Evaluation in Education (3). Competencies required for the design, construction or selection, and evaluation of measuring instruments. Prerequisite: EDF 5481. (F,S,SS)

EDF 5443 Measurement and Evaluation in the Classroom (3). Basic concept in educational measurement, utilizing measurements in instruction, construction of teacher-made tests and other classroom assessments, portfolio and performance assessment, interpretation of standardized test scores.

EDF 5481 Foundations of Educational Research (3). Competencies required for critical understanding, evaluation, and use of published educational research: Understanding quantitative and qualitative methods; sampling; measurement; data collection and analysis; and inference process. (F,S,SS)

EDF 5820 Latin American Education: An Historic and Contemporary Overview (3). Historical and current development of Latin American education, and analysis of principal forces shaping this development. (AR)

EDF 5821 African Educational Systems: A Comparative Approach (3). Contemporary trends and issues of education in selected independent African countries, with historical analysis of colonial educational policies and practices. (AR)

EDF 5881 Foundations of Bilingual Education (3). Fundamental theories and models of bilingual education, and information about the historical, philosophical, theoretical and legal background for bilingual multicultural programs in the United States. (AR)

EDF 6211 Psychological Foundations of Education (3). An intermediate course designed to apply theories and principles of learning and development to teaching and student learning in career areas related to education. Challenges of diversity and teacher effectiveness are emphasized. Prerequisites: EDP 3004 or equivalent. (F,S,SS)

EDF 6212 Research Problems in Educational Psychology (3). Critical analysis of research trends and topics in educational psychology with specific relevance to counseling, school psychology, or special education. Students prepare a prospectus for thesis. (AR)

EDF 6301 Cognitive Psychology in Education (3). Review of psychological research and theory pertaining to cognitive development and processes. Applications to education including cognitive strategy training and enhancement or attention and memory. Prerequisites: EDP 6211 or equivalent. (AR)

EDF 6414 Introduction to Statistical Software in Education (3). Introduces popular statistical software packages used in education, including SPSS, SAS, and R. Prerequisite: EDF 6472 or Permission of instructor.

EDF 6419 Application of Statistical Models to Education (3). This research course connects foundational knowledge with advanced statistical modeling. The course covers applied regression and basic models of multivariate analysis using empirical data. Prerequisite: EDF 6486

EDF 6425 Single-Subject Research Design in Education (3). This course helps students develop research questions related to individualized interventions to address behavioral challenges in educational settings.

EDF 6427 Instrument Development and Analysis (3). Introduces the process of creating a new instrument and providing reliability and validity evidence. Prerequisite: EDF 6472, or permission of the instructor.

EDF 6432 Introduction to Educational Measurement (3). This course introduces students to educational measurement. Students will learn the foundations of measurement, auxiliary statistical approaches to validation, and the mainstream measurement models. Prerequisite: EDF 6486

EDF 6472 Research Methods in Education: Introduction to Data Analysis (3). This foundational course in research provides a broad overview of statistical concepts and analysis to promote a student's research ability in social science and educational settings.

EDF 6475 Qualitative Foundations of Educational Research (3). Methods and procedures of qualitative research in education: Philosophical issues, conceptualizing research questions, choosing appropriate research designs, collecting data, manual and computerized data analysis, and drawing inferences.

EDF 7476 Advanced Methods of Qualitative Educational Research (3). Advanced design, data collection, and data analysis issues in qualitative research, applied data analysis using text analysis computer programs, making inferences, and effective dissemination of the results. Prerequisite: EDF 6475 or equivalent. Corequisites: EDF 6481 and EDF 6475.

EDF 6481 Educational Research Methodology (3). This course is designed to provide doctoral students with an in-depth analysis of the methods and procedures of research in education. Topics will include conceptualizing educational research, writing research proposals, constructing measurement instruments, collecting and analyzing qualitative and quantitative data, and drawing inferences. Prerequisites: EDF 5481 and EDF 6472.

EDF 6482 Application of Measurement and Assessment in Educational Research (3). The course is to provide key concepts and theories in measurement and guide researchers and practitioners to apply these concepts and theories in their research practice. Prerequisites: EDF 6472, EDF 5481, or permission of the instructor.

EDF 6486 Advanced Data Analysis in Quantitative Educational Research (3). This is the second of a two-semester in quantitative data analysis. It provides the competencies required for data analysis in complex educational research designs. Prerequisite: EDF 6472 (AR)

EDF 6487 Action Research for Educators (3). The first part of a two semester sequence providing the knowledge and skills necessary for conducting research in schools and classrooms by teachers and administrators; using the results of this research to inform practice. Prerequisite: EDF 5481.

EDF 6492 Introduction to Program Evaluation in Education (3). Introduces basic theories and concepts in program evaluation under educational contexts. Prerequisite: EDF 6472, EDF 5481, or Permission of Instructor.

EDF 6654 Macro- and Micro-Planning in Education (3). This course is designed to study the theoretical and methodological foundations of educational planning in the U.S. and other countries. (F)

EDF 6943 Quantitative Research Practicum in Education (3). The quantitative research practicum in education is designed for graduate students to conduct an original research project. Prerequisite: EDF 6486

EDF 7215 Application of Learning Theory to Instruction (3). Analysis of selected learning theories and application of these theories to an instructional system. Prerequisite: EDF 6211. (AR)

EDF 7403C Data Analysis in Multivariate Educational Research (3). Design of multivariate research projects in education. This course focuses on applications of multivariate data analysis to educational research using a non-matrix approach. Prerequisite: EDF 6486. (AR)

EDF 7404 Qualitative Research Data Analysis (3). Prepares students for a qualitative dissertation or research project in social or educational fields. Helps students develop techniques for analyzing and writing up qualitative research data.

EDF 7412C Structural Equation Modeling for Educational Research (3). The course focuses on conceptual understanding of covariance structure models and practical experiences of conducting a research project using structural equation models in educational fields. Prerequisites: EDF 6472, EDF 6486, or permission of the instructor.

EDF 7419C Applied Regression Analysis for Educational Research (3). It is designed for graduate students who prepare for educational research using applied regression, aiming at hands-on experiences using computer software and practices on research presentation. Prerequisites: EDF 6472, EDF 6486, or permission of the instructor.

EDF 7437 Advanced Measurement (3). This course is designed to introduce measurement theory and advanced applications in educational measurement. Prerequisite: EDF 6432.

EDF 7442 Instrument Construction for Research and Evaluation (3). Course covers data collection procedures such as surveys, interviews, observation, content analysis, and performance assessments. Prerequisites: EDF 5481 or equivalent and an introductory measurement course.

EDF 7480 Qualitative Research Paradigms (3). Examines established and emerging Western/non-Western paradigms of knowledge construction. Contributes to student development of theoretical frameworks, literature reviews, and methodology.

EDF 7483 Seminar in Mixed Methodology (3). Utilization of mixed (Qualitative + Quantitative) methods in research, including critical evaluation of worldviews, typology, research questions, data collection/analysis, and meta inferences. Prerequisites: EDF 6475, EDF 6481, and EDF 6486.

EDF 7489 Hierarchical Linear Modeling for Educational Research (3). The course is to provide key concepts and knowledge of HLM and guide educational researchers to practically apply HLM for the analysis of grouped or longitudinal data in educational research settings. Prerequisites: EDF 6472, EDF 6486, or permission of the instructor.

EDF 7492 Educational Program Evaluation (3). Design, development and implementation of program evaluation studies in education, interpretation and dissemination of the findings. Prerequisites: EDF 6475, EDF 6481, EDF 6486.

EDF 7931 Special Topics Seminar in Qualitative Research (3). This course is dedicated to the study of contemporary issues in qualitative and interpretive inquires.

EDF 7941 Supervised Practicum in Educational Research and Evaluation (3). Completion of research or program evaluation project under the supervision of a faculty member. The product of this practicum is a publishable research report. Prerequisites: EDF 6481 and EDF 6486.

EDG 5049 Public Diplomacy and Education: Engaging the Arab and Muslim World (3). Examination of education and public diplomacy, from different national perspectives, engagement in dialogue about global issues with virtual classmates, and grant proposal writing.

EDG 5325 Analysis of Teaching (3). Examination of the research on instruction in teaching, and the development of skills in the observation and analysis of teacher behavior. (AR)

EDG 5414 Teaching Environments: Instructional Strategies and Classroom Management (3). Includes instructional decisions, classroom management, assessment, and ethics that are supportive of all students' thinking and individual differences. Prerequisite: Permission of the instructor (F,SS)

EDG 5414L Instructional Strategies Lab (3). Applies basic knowledge and skills necessary for teaching. Required of all in modified masters programs. Corequisite: EDG 5414. (F,SS)

EDG 5417 Fundamentals of Learning (3). Designed to help educators use learning styles information to change instruction and improve student achievement. Prerequisite: Tentative admission to Master's program. (AR)

EDG 5707 Cultural and Cross-Cultural Studies (3). This is an overview of immigration patterns in U.S., discussions of theories of ethnicity, acculturation, intercultural communication. Development of teaching strategies for multicultural classrooms. Multicultural issues in elementary, secondary, adult, vocational, and special education will also be addressed. (F,S,SS)

EDG 5736 Preparation for International Teaching Internship (3). This course is to prepare students for an international teaching internship. Students will examine educational and cultural issues related to the U.S., their future host placement, and the world.

EDG 5910 Independent Research Study in Education (0-6). Designed to provide an opportunity to enhance their educational research knowledge, to research a specific area, issues and trends, and/or the delivery of education in K-12 settings. Prerequisite: Department consent is required.

EDG 5941 Practicum: Urban Secondary Schools (3). Developing teacher competencies in urban secondary schools. (AR)

EDG 5942 International Educational Internship (3). Students will complete an international internship and be required to teach in international schools, engage in cultural immersion experiences, and conduct service-learning projects. Prerequisite: EDG 5XXX Preparation for International Teaching Internship

EDG 6250 Curriculum Development (3). Development of basic technical constructs of curriculum. Planning of reality-based educational programs at all levels of schooling.

EDG 6286 Curriculum Evaluation and Improvement in Urban School Systems (3). Development of skills in curriculum evaluation and strategies for improvement of on-going curriculum.

EDG 6608 Multicultural Education: Defining the Field (3). Multicultural education and its impact on teaching and the profession. Prerequisite: Admission to Urban masters program. (AR)

EDG 6627 Seminar: Issues and Trends in Curriculum and Instruction (3). A review of current issues and trends in Curriculum and Instruction. Prerequisite: EDG 6250.

EDG 6920 Colloquium in Curriculum and Instruction (1-6). Selected readings, presentations and discussions on topics related to curriculum and instruction. Colloquia considers specific topics related to issues, trends and applications in the broad field of education. Prerequisite: Masters Degree. (SS)

EDG 6925, 6926, 6927, 6928, 6929 Special Topics in General Professional Education (1-3). Offers an opportunity for school personnel to participate in a problem-oriented workshop in one of the fields of general professional education. (AR)

EDG 6943 Supervised Field Experience (1-5). Students are provided an opportunity to perform supervisory duties appropriate to the students' professional goals. Only advanced graduate students are permitted to enroll. (AR)

EDG 6971 Thesis in Curriculum and Instruction (1-3). An individually supervised research project demonstrating the application of analytical, conceptual and technical skill to a specific curriculum and instruction problem. Prerequisites: EDF 5481 and permission of major advisor.

EDG 7222 Curriculum: Theory and Research (3). Theories of curriculum organization and a survey of curriculum research and historical patterns of curriculum development. Prerequisite: EDG 6250.

EDG 7226 Advanced Research in Teaching and Learning (1-15). This course supports advanced research for doctoral students before their admission to a candidacy. It is designed for students in a Teaching & Learning doctoral program. It is not appropriate for students who have been admitted to candidacy.

EDG 7362 Instruction: Theory and Research (3). Theories of instruction and research in the learning process, creativity, the thought process, human relations and group dynamics and other fields related to the development of instructional theory and practice. Prerequisites: EDG 6250 or Psychology of Learning.

EDG 7391 Seminar in Instructional Leadership (3). Review theories of change and organizational development applicable to education. Discussion of rules and functions of supervisors, curriculum developers and other leaders in the instructional process. Prerequisites: EDA 6222 or EDS 6050.

EDG 7665 Seminar in Curriculum (3). Provides advanced doctoral students the opportunity to participate in a high level seminar focused on identifying the forces which shape curriculum theory and practice. Prerequisite: EDG 7222.

EDG 7667C Advanced Topics in Curriculum Studies (3). Advanced study of current topics and research issues in curriculum studies. May be repeated.

EDG 7692 Theory, Organization, and Policy in Teaching and Learning (3). Contextualizes education policy in broader political, historical, ideological, and power discourses. Examines relevant policy case studies and strategies for policy advocacy.

EDG 7692C Politics of Curriculum (3). Advanced study of theories, research, and processes of curriculum decision-making.

EDG 7923C Doctoral Seminar in Curriculum Studies (3). Advanced study of professional development activities and current research topics in Curriculum Studies.

EDG 7938 Doctoral Seminar in Instructional Leadership (3). Advanced doctoral studies in current theories and research related to instructional leadership. Prerequisite: EDG 7391. (F)

EDG 7964 Comprehensive Doctoral Examination (0). Prerequisite: Permission of Major Professor.

EDG 7980 Ed.D. Dissertation (1-12). Original contribution to knowledge in major field. Prerequisite: Permission of Major Professor and Doctoral Candidacy. (F,S,SS)

EDG 7985 Dissertation Defense (0). Defense of dissertation. Prerequisites: Permission of Major Professor and EDG 7980.

EDH 6925 Special Topics in Higher Education (1-3). This course is an intensive development of selected competencies related to staff development and/or administrative skills of special interest to students in higher education. (F,S,SS)

EDH 6935 Special Topics in Higher Education (3). This course provides for the examination of a particular academic topic of interest to students in higher education. (F,S,SS)

EDH 7931 Seminar on Class, Gender and Race in Higher Education (3). Examines historical and contemporary interrelationships of hegemony, domination, and power undergirding sociocultural viewpoints, institutional forces, and policy discourses in higher education.

EDH 7937 Special Research Topics in Higher Education Administration (3). This doctoral seminar is devoted to the in-depth treatment of selected theories and research topics in the field of higher education. (AR)

EDH 7939 Critical Texts in Higher Education (3). Thematic seminar devoted to the in-depth reading of key texts defining the field of higher education. Theme changes every term and may be taken more than once

EDM 6256 Problems in Curriculum and Instruction: Middle School (3). Investigation of current problems and solutions to essential curricular and instructional issues in Middle School education. Prerequisites: ESE 6215 or equivalent. (SS)

EDP 5053 Educational Psychology: Principles and Applications (3). Theories, empirical bases and principles of development and individual differences, learning environments, and assessment applied to teaching at all educational levels. Challenges of diversity are emphasized. Required of Modified Masters programs. (SS)

EDP 6276 Human Development: Childhood and Adolescence (3). Advanced survey of principles of human development in biopsychosocial terms; in-depth study of infancy, childhood, adolescence, emphasizes applications to broad range of educational processes. Prerequisites: EDP 3004 and DEP 2000. (F)

EDP 6277 Human Development: Across the Life Span (3). Advanced survey of life span human development. Demographic, physiological, sociological factors contributing to optimal functioning through adulthood and aging. Applications to counseling and education. (S)

EDP 6546 Social Processes & Systems (3). This course is designed for doctoral students to discuss and critically analyze research trends and topics about individuals' thoughts, feelings, and behaviors in ecological context of social systems.

EDP 6547 History and Systems of Psychological Science in Education (3). This foundational course addresses the development of modern psychological science exploring the historical contexts, systems and schools of psychology, and implications for educational institutions.

EDP 7057 Educational Psychology: Advanced Applications (3). Advanced doctoral level seminar. Reviews and applies educational psychology theories and

empirical evidence to educational research, program development and policy making at all educational levels. Prerequisite: School of Education doctorate students. (AR)

EDP 7058 Behavioral Intervention Research and Evaluation in Education (3). Design and analysis of observational and behavioral studies in education. Includes single subject research studies, structured observation systems, and behavioral interventions. Prerequisite: EDF 5481. (S)

EDP 7214 Psychological Problem Solving in Education (3). Discussion of psychological problem solving literature and development of problem solving tasks grounded in the educational psychology literature. Prerequisite: EDP 6301.

EDP 7265 Supervised Teaching of Educational Psychology (3). Independent teaching of an educational psychology or educational research and evaluation course under the supervision of assigned faculty member(s). Prerequisites: Doctoral candidacy in the related area. Course may be repeated as needed.

EDP 7504 Educational Psychology in Cross-Cultural Contexts (3). Discussion of empirical and theoretical cross-cultural research in intelligence, problem solving, and language that impact teaching, learning, and achievement in the US and around the world. Prerequisite: EDP 7057

EDP 7980 Education Doctoral Dissertation (1-12). Research for doctoral dissertation students approved for candidacy in Educational Research and Measurement and in Educational Psychology. Prerequisite: Advancement to candidacy in doctoral program.

EDS 5051 Supervision and Professional Laboratory Experience (3). The content of this course includes performance standards at the preservice teacher preparation level, Clinical Educator training, mentoring, and classroom strategies that result in improved student performance.

EEC 5906 Directed Study in Early Childhood Education (1-3). Available to undergraduate and graduate students studying early childhood education. Provides for individual investigation in the area of early childhood education. Permission of the instructor required.

EEC 5926 Special Topics in Early Childhood Education (3). Available to undergraduate and graduate students studying early childhood education. Provides opportunities to develop skills and knowledge under the guidance of a specialist in a selected area. Permission of the instructor required.

EEC 6232 Developing Learning Processes in Early Childhood: Research into an Italian Perspective (6). This course focuses on early childhood practices through an Italian perspective. Emphasis on learning processes guiding curriculum and instruction in early childhood settings. No prerequisite

EEC 6261 Education Programs for Younger Children (3). Required in masters program in early childhood education. Programs developed for young children; curriculum trends based on contemporary psychological, educational, and sociological research.

EEC 6273 Programming for Young Handicapped Children: Birth to Five Years (3). Acquaint students with developmentally appropriate curricula, methods, materials, intervention strategies, and teaming approaches for infants, toddlers, preschool, handicapped, and at risk children. Prerequisites: EEX 6017; EEX 3010 or EEX 6051 recommended.

EEC 6277 Thinking and Learning in the 21st Century (3). Explores principles from cognitive science that have important implications for instructional approach and curriculum design for 21st century. It addresses global learning outcomes and habits of mind.

EEC 6678 Research in Early Childhood Education (3). Elective in masters program in early childhood education. Required for students in doctoral program. Research in early childhood education and the paradigms associated with this research. Prerequisite: EDF 5481.

EEC 6705 Typical and Atypical Child Development: Birth to Five Years (3). Explore research on normal and atypical child development from birth to five years in physical, intellectual, social, and emotional domains. Field observation required. Prerequisites: none; EEX 3010 or EEX 6051 recommended.

EEC 6932 Seminar in Early Childhood Education (3). Elective in masters program in early childhood education. Required for students in doctoral program. Advanced study of critical issues and problems in preschool and early childhood education. Prerequisite: EEC 6678.

EEC 6948 Supervised Experience in Early Childhood Education (3-9). Available to graduate early childhood education majors. Provides field work in educational institutions and organizations involved in childcare and early childhood education. Prerequisite: Permission of the instructor.

EEC 6971 Thesis in Early Childhood Education (6). Design and preparation of an original scholarly investigation in early childhood education. Prerequisites: EDF 5481, EEC 6678, and consent of instructor. Corequisite: EEC 6932.

EEC 7932 Doctoral Seminar in Early Childhood Education (3). Required for students in doctoral program. Advanced doctoral study of current theories and research related to early childhood education. Topics may vary and may include: social, cognitive, affective and language development. Prerequisites: EEC 6678, EEC 6932. (AR)

EEX 5060 Nature and Needs of Students with Mild Disabilities (3). Curriculum models, approaches and significant concepts and skills needed for educational planning and programming for students with mild disabilities. Prerequisites: EEX 5481, EEX 6912. (S)

EEX 5068 Instructional Practice in Exceptional Student Education I (3). This course includes the theoretical basis and principles of appropriate instructional practices and techniques for students with mild disabilities, IEP planning, and curriculum development.

EEX 5069 Instructional Practices in Exceptional Student Education II (3). This course includes the principles of effective instructional practices and strategies for students with mild disabilities, and requires implementation of these strategies in the field.

Prerequisites: EEX 6051, EEX 6225, EEX 6106, EEX 5068.

EEX 5075 Teaching Students with Exceptionalities in Inclusive Settings (3). To develop understandings, skills and dispositions necessary to instruct students with disabilities in inclusive settings, and to collaborate with professionals and parents. 10 field hours required.

EEX 5095 Nature and Needs of Students with Autism Spectrum Disorders (3). Students will develop knowledge and skills related to the nature and needs of students with autism including characteristics, learning goals, teaching approaches, and environmental arrangements.

EEX 5210 Assessment and Strategies for Students with Autism Spectrum Disorders (3). Students will become familiar with current formal and informal assessments used in diagnosis and instructional planning. Students will also become familiar with specific educational strategies for students with autism spectrum disorders.

EEX 5259 Literacy in Special Education (3). Provides teachers with knowledge of specific developmental, remedial reading and language arts strategies, assessment and implementation models that can be used for students with exceptionalities.

EEX 5282 Introduction to Audiology and Auditory Training for Students Who are Deaf and Hard of Hearing (3). The purpose of this course is to provide the opportunity to study the physical dimensions of sound, the psychoacoustic aspects of sound, and the relationship between these. The etiologies, characteristics, and the diagnostic evaluation, treatment and rehabilitation associated will be discussed. Prerequisites: EHD 5110 and EHD 5344.

EEX 5608 Behavioral Approaches to Learning and Classroom Management (3). Application of behavioral principles to children and youth in educational and community settings. Required for special education modified masters' and out-of-field certification majors. Prerequisite: EEX 6051.

EEX 5612 Methods of Behavior Analysis (3). Covers behavior change procedures, evaluating interventions, staff training and managing behavior treatment teams. Data-based evaluation of teaching procedures, behavior outcomes and team member performance is stressed.

EEX 5618 Advanced Applied Behavior Analysis Change (3). This course provides an advanced study of learning principles and methods of behavior change. Basic behavior analysis principles will be reviewed and studied in great depth.

EEX 5619 Behavioral Management and Positive Behavioral Supports for Students with Autism Spectrum Disorders (3). Students will develop and implement positive behavior plans and design behavior management techniques for students with Autism Spectrum Disorders.

EEX 5666 Best Practices in Applied Behavior Analysis. (3) Covers practical aspects of practicing behavior analysis in education and other employment settings.

EEX 5755 Working with Families and Communities of Young Children with Disabilities (3). This course includes strategies for effective communication and collaboration with families of young children with disabilities and related agencies.

EEX 5766 Instructional and Assistive Technology in Special Education (3). Provides teachers of students with disabilities instructional and assistive technology skills that enhance student learning and increase access to the general education curriculum. Prerequisite: EEX 6051.

EEX 5767 Assistive and Instructional Technology and Alternate/Augmentative Systems for Students with Autism (3). Students will develop skills in strategies used in integrating instructional and assistive technology in the classroom for students with autism and the use of appropriate AAC systems.

EEX 5771 Personal Foundations and Transitional Services for Individuals with Disabilities (3). Explores personal living skills, employability and transitional skills for adulthood in relation to persons with mental, sensory and physical disabilities. (SS)

EEX 5841 Graduate Practicum in Special Education (1). The Graduate Practicum in Special Education provides opportunities for intensive and integrated teaching experiences in the classroom under the close supervision of master teachers and university supervisors. Prerequisites: Completion of professional studies and core courses. Corequisites: EED 5225, ELD 5145, EMR 5215.

EEX 5869 Behavior Analysis Internship (0-9). This course will provide students the opportunity to practice the principles of behavior analysis in an educational, intervention or applied research setting. Prerequisite: Permission of Instructor

EEX 6019 Autism (3). Presents the nature of autism, personal characteristics, patterns of development, and assessment and intervention strategies. Requires field activity. (AR)

EEX 6017 Typical and Atypical Child Development: Birth to Five Years (3). Explore research on normal and atypical child development from birth to five years in physical, intellectual, social, and emotional domains. Field observation required. Prerequisites: EEX 3010 or EEX 6051. (F)

EEX 6051 Education of Students with Exceptionalities (3). Significant concepts in relation to the educational needs of students with exceptionalities. (AR)

EEX 6065 Educational Programs for Secondary Level Students with Exceptionalities (3). Considers philosophies and models of secondary programs for students with mild disabilities. Emphasis is given to instructional methods in skills and content areas and identification of transition resources. Prerequisites: MAE 6336, RED 6336. (AR)

EEX 6072 Inclusion of Students with Exceptionalities (3). Awareness of issues underlying the movement to include students with disabilities in general education settings. Techniques and procedures for effective mainstreaming of these students. (SS)

EEX 6096 Characteristics of Individuals with Severe Disabilities (3). Characteristics of individuals with

physically impaired, health impaired, and profound communication disorders and behavior disorders, including autism. Medical etiology, assessment techniques, program planning for student and family. Prerequisite: Graduate level status. (AR)

EEX 6106 Acquisition of Speech and Language Skills (3). Development of normal speech and language, and knowledge of speech and language delays and disorders. (S)

EEX 6211 Assessment of Learning and Behavior (3). Presents a model for assessing the skills and abilities of students with exceptionalities. Emphasis is on administration, scoring and interpretation of a variety of standardized tests, and communication of results in written reports and oral staffings. Prerequisites: EEX 3221 or EEX 6227 or equivalent. Lab fee required. (AR)

EEX 6213 Assessment and Interventions for Young Children with Disabilities (3). Presents an ecological approach to assessment of young children. Formal/Informal assessment including naturalistic observations and the development of an IFSP and IEP required. Prerequisites: EEX 6017, EEX 3012 or EEX 6051. Corequisite: EEX 6455. Lab fee required. (S)

EEX 6225 Educational Assessment of Students with Exceptionalities (3). Presents a model for assessing the academic skills of students with exceptionalities. Emphasis is on use of standardized tests and development of curriculum-based assessments. Lab fee required. (F,S)

EEX 6228 Integration of Curriculum, Assessment and Instruction (3). This course constitutes the culminating experience in the Masters Program by establishing the link between curriculum, assessment, and instruction. Prerequisite: Completion of required Masters course work. (S)

EEX 6417 Guidance and Counseling of Gifted Students (3). Affective development, parental involvement, counseling theories, underachieving gifted. (SS)

EEX 6455 Programming for Young Children with Disabilities (3). Acquaint students with developmentally appropriate curricula, methods, materials, intervention strategies, and teaming approaches for infants, toddlers, preschool age children with disabilities as well as children at risk. Prerequisites: EEX 6017, EEX 3010 or EEX 6051. Corequisite: EEX 6213. (S)

EEX 6535 Seminar in Special Ed.: Supervision and Leadership (3). Problems in school administration and pattern of curriculum organization as they relate to people with disabilities. Focus on conceptual framework, change factors and future trends in special education. (F)

EEX 6609 Behavior Analytic Teaching (3). Presents a behavior analytic framework for teaching and skill development. Addresses the scientific basis, rational and context for using behavior analysis in teaching.

EEX 6617 Principles of Applied Behavior Analysis II (3). An intensive study of single-subject experimental methods to evaluate the effects of behavior change procedures. Single case methods are used in a variety of educational and other applied settings. Prerequisite: An EEX 5000- level course

EEX 6664 Applied Behavior Analysis in Education (3). A behavior analytic systems approach to education. Focuses the design, implementation, and supervision of behavior analysis technologies in educational settings.

EEX 6680 Theory and History of Behavior Analysis in Education (3). A critical examination of theory and history of applied behavior analysis, its contribution to educational practice, its broad application and limitations. Covers historical figures and events

EEX 6747 Ethics in Applied Behavior Analysis (3). Ethical Issues relevant to all areas of behavior analysis are examined, with a focus on those that relate to activities teachers and behavior analysts may engage in the classroom and other settings. Prerequisite: Graduate Standing.

EEX 6756 Working with Families of Students with Disabilities through Collaborative Approaches (3). This course familiarizes students with the skills needed to work in effective partnerships with families of children with disabilities and related school personnel.

EEX 6765 Instructional Technology for Special Education (3). Provides teachers of students with special needs current knowledge in instructional technology, appropriate to enhance student learning. (F,SS)

EEX 6796 Culturally and Linguistically Diverse Exceptional Learners (3). The course will focus on evidence-based practices for working with culturally and linguistically diverse students with disabilities with a particular focus on urban schools and related issues.

EEX 6848 Seminar in Special Education: Issues and Trends (3). A forum to discuss, analyze, and evaluate current issues and trends in special education. Individual issues and trends will be planned and executed by students. (S)

EEX 6862 Student Teaching (6). Culminating field experience in a program for students with Exceptionalities, demonstrating competencies learned throughout the program. Prerequisite: successful completion of all program requirements. (F,S)

EEX 6863 Supervised Field Experience in Special Education (3-9). Demonstration in a field site of the full range of competencies in diagnostic teaching learned throughout the program. Placements include a variety of field settings. (F,S,SS)

EEX 6906 Directed Study in Special Education (1-6). Concepts or competencies contracted for by graduate students with a faculty member. (F,S,SS)

EEX 6912 Advanced Theory and Research in Special Education (3). Required by graduate students in the Masters or Doctoral programs. Investigation of advanced work in social and psychological research applied to persons with handicaps, mental retardation, learning disabilities, and emotional disturbances. Prerequisites: Certificate in Special Education and/or competence in Special Education. (F,S)

EEX 6927 Special Topics in Special Education (1-6). Selected competencies in special education, developed in short-term, intensive workshops. (F,S,SS)

EEX 6942 Capstone & Career Development (0-9). Prepares students to enter the profession through development activities and networking activities. Includes the presentation and defense of a capstone project. Prerequisite: Permission of instructor

EEX 6947 Behavior Analysis Internship Supervision (3). Provides students with small-group supervision of internship experience. Focuses on development of a case conceptualization capstone project.

EEX 6971 Thesis in Special Education (3). Elective in Masters Program in special education. Design and implementation of original scholarly investigation in special education. Prerequisites: EEX 6912, EDF 5481, consent of instructor. (AR)

EEX 7795 Advanced Issues in the Education of Culturally and Linguistically Diverse Students with Exceptionalities (3). The course will focus on highly effective educators, minority students in special education, critical issues such as inclusion and assessment, and teacher preparation and support in urban districts.

EEX 7930 Professional Seminar in Special Education (1). Required 6 semester seminar for new and continuing doctoral students in leadership and professional development issues facing doctoral professionals. Prerequisite: Doctoral standing. (F,S,SS)

EEX 7933 Advanced Topics in Special Education (3). In-depth study and analysis of topics affecting special education practice. Course can be repeated for credit. Prerequisite: Admission to doctoral program in ESE.

EEX 7937 Dissertation Seminar in Special Education (3, repeatable to 9). Designed to take doctoral students through the steps of completing a dissertation. Requires identification and development of a research problem. Prerequisites: Completion of special education core and research and statistics component. (F,S,SS)

EEX 7977 Candidacy Research and Evaluation in Educational Psychology and Special Education (3). Research activities required for Doctoral students in special education prior to candidacy and dissertation. Serves as a bridge between courses and the comprehensive examination. Prerequisite: Doctoral standing. (F,S,SS)

EEX 7980 Ed.D. Dissertation (1-12). Original contribution to knowledge in major field. Prerequisites: Permission of Major Professor and Doctoral Candidacy. (F,S,SS)

EGI 5051 Nature and Needs of the Gifted (3). Identification and placement procedures, history of the field, and psychological factors affecting development of the gifted-talented. (F)

EGI 5232 Educational Procedures and Curriculum for Gifted (3). Basic curriculum models in education of the gifted. Relation of models to planning, implementation in traditional classrooms, resource rooms, and special classes. (S)

EGI 6305 Theory and Development in Creativity for Gifted (3). Required for graduate students seeking endorsement in Gifted Education. Knowledge and practice in theory and process of creative thinking and production of creative work. Prerequisite: Graduate level only. (F)

EGI 6405 Special Gifted Populations (3). Required for graduate students seeking endorsement in Gifted Education. Knowledge and theory in cultural, psychological, and educational principles applied to gifted minorities, including the handicapped. Prerequisite: Graduate level only. (SS)

EHD 5110 Nature and Needs of Students Who are Deaf and Hard of Hearing (3). Identification and placement procedures, history of the field, and psychological factors affecting the development of students who are deaf and hard of hearing.

EHD 5246 Teaching Reading to Students Who are Deaf and Hard of Hearing (3). Knowledge and skills in teaching reading to students who are deaf or hard of hearing. Techniques and strategies in the primary grades, intermediate grades and content areas will be discussed as well as the exploration, creation and evaluation of basic reading materials. Prerequisites: EHD 5110 and EHD 5247.

EHD 5247 Teaching Language and Speech to Students Who are Deaf and Hard of Hearing (3). Historic approaches and current methods for teaching language and speech; knowledge of language and speech structures and principles needed by students who are deaf and hard of hearing; and an understanding of the development of language and speech in students who are deaf. Prerequisite: EHD 5110.

EHD 5341 Curriculum and Instruction of Students Who are Deaf and Hard of Hearing (3). Students will learn techniques for teaching learners who are deaf or hard of hearing including adaptations for instruction in content areas, multicultural instruction, development and implementation of IEPs. Prerequisites: EHD 5110, EHD 5247, and EHD 5402.

EHD 5344 Anatomy and Physiology for Teachers of Students Who are Deaf and Hard of Hearing (3). Exploration and study of the anatomy and physiology of all aspects of communication process. These aspects include the respiratory, phonatory, articulatory, acoustic, auditory, and neurologic systems. Prerequisite: EHD 5110.

ELD 5145 Strategies in Teaching Students with Learning Disabilities (3). Instructional strategies and approaches for teaching students with learning disabilities. Extensive field work is required. Prerequisites: EDG 5414 and Lab, EEX 6051, EEX 6227, EEX 5608. (AR)

ELD 6323 Advanced Theory and Practice: Specific Learning Disabilities (3). Major concepts in the area of specific learning disability, and skills in the application of these concepts to education. (S,SS)

EME 5315 Instructional Media (3). Development of competencies for effective selection and utilization of instructional media. Consideration of sources, selection, evaluation, and methods of implementing media. (AR)

EME 5403 Introduction to Instructional Delivery Systems (3). A study of the rapidly expanding electronic media technology and its impact on instructional delivery. Prerequisites: EME 3402 or EME 6405. (AR)

EME 5602 Multimedia in the Classroom (3). Use videodisc and compact disc formats; hypermedia; high resolution still images and graphics; audio-program material and text to improve the quality of teaching and

student learning. Prerequisites: EME 3402, EME 6405, or equivalent. Corequisite: Basic knowledge of McIntosh environment. (AR)

EME 5623 Digital Video in the Classroom (3). Hands-on digital video techniques and practices for integration into classroom applications. Designed for teachers who wish to use digital video in classroom settings.

EME 5945 Special Topics in Computer Education (1-3). Offers an opportunity for teachers and trainers to participate in activities using specific computer applications. (AR)

EME 6405 Computers in the Classrooms (3). Learning to use microcomputers in a school setting. Emphasis on evaluating and documenting software; creation of classroom materials leading to development of useful software. (F,SS)

EME 6407C Instructional Programming for Teachers (3). An introductory course for teachers to use BASIC to write educational programs appropriate to the teacher's area of specialization. Prerequisites: EME 3402 or EME 6405 or permission of the instructor. (AR)

EME 6408 Microcomputers as Teaching Tools (3). This course develops ability to use the microcomputer as an object, medium, and manager of instruction in the classroom. Prerequisites: EME 6405 or EME 3402 or permission of the instructor. (F,S)

EME 6412 Educational Courseware Evaluation and Development (3). This course develops ability to select, evaluate, design, and utilize appropriate software for the school curriculum. Prerequisites: EME 6405 or EME 3402 and one computer language or permission of the instructor. (AR)

EME 6433 Learning Technologies in Science Education (3). Application of learning theories and research to learning technologies in science education. Development, testing and evaluation of curriculum materials.

EME 6507 Advanced Interactive Multimedia (3). Research on the use of text, color, sound, graphics and animation in multimedia presentations. Apply theory and research to design, develop, and evaluate educational multimedia materials using advanced technological tools and distribute them in different formats. Prerequisites: EME 6405, EME 5602.

EME 6628 Administrative and Instructional Applications of Technology (3). Topics of this course include data management, instructional management, teleconferencing, scheduling, and productivity software for educational leaders and school managers. (AR)

EME 6905 Directed Study: Computer Education (1-3). The course provides an opportunity for the student to plan and carry out an independent study project under direction. Prerequisite: Permission of the instructor. (F,S,SS)

EME 7457 Teaching and Learning at a Distance (3). The course will cover distance education technologies, history and research, needs of learners, design, development, and evaluation, intellectual property rights, assessing students at a distance. Prerequisites: Admission into doctoral program, permission of instructor.

EME 7936 Special Topics in Learning Technologies (3). Special topics in the area of learning technologies will be addressed in this course. Topics will vary from semester to semester. Prerequisites: Admission into doctoral program, permission of instructor.

EME 7938 Advanced Seminar in Learning Technologies (3). Important emerging topics, issues, problems, and trends in the area learning technologies will be covered in this course. Prerequisites: Admission into doctoral program, permission of instructor.

EMR 5215 Strategies for Teaching Students with Mental Retardation (3). Familiarizes students with instructional strategies and specialized approaches for teaching students with mental retardation. Requires extensive field work. Prerequisites: EDG 5414, EDG 5414L, EEX 6051 and EEX 5608. (AR)

EMR 6012 Advanced Theory and Practice: Mental Retardation (3). Major concepts in the area of mental retardation and skills in the application of these concepts to education. (S,SS)

ESE 5344C Secondary Classroom Management (3). Provides students with the theoretical and practical approaches for dealing with the problems of classroom management within the goals, materials, and teaching strategies that form secondary classrooms.

ESE 6215 Secondary School Curriculum (3). Examination of programs, trends, and developments in curriculum and instruction in the secondary school. Consideration and evaluation of innovations. (AR)

ESE 6256 Problems in Curriculum and Instruction: High School (3). Investigation of current problems and solutions to essential curricular and instructional issues in high school education. Prerequisites: ESE 6215 or equivalent. (SS)

ESE 6925 Workshop in Secondary Education (1-3). Production and application of materials and techniques in a laboratory or field setting. Prerequisite: Consent of instructor.

ETE 5811C Equipment and Facilities Planning (3). Utilization of research, design, and technical knowledge and skill to plan and update technology education laboratory facilities and equipment. Prerequisite: Graduate standing. (F,S,SS)

ETE 5905 Directed Study in Technology Education (1-3). Identification, research, and reporting on problems of interest to the student in technology education. Subject to approval of program advisor. (F,S,SS)

ETE 5935C Special Topics in Technology Education (3). Selected topics related to instructional and technical areas. (F,S)

ETE 6683 Instructional Projects Development in Technology Education (3). Knowledge and skill in developing new and innovative instructional projects for use in technology education programs, grades 6-12. (F,S,SS)

ETE 6931 Analysis of Technology Education (3). Knowledge of trends, issues, problems in technology education at the national, state, and local levels. (F,S,SS)

EVT 5317 Occupational Analyses in Health Occupations and Nursing Education (3). This course provides opportunity to expand/update the knowledge base of health care system combining experiences in health care delivery system with curriculum updating. Professional licensure and liability insurance required. May be repeated. (AR)

EVT 6760 Research in Vocational Education (3). This course provides students with knowledge and skill in identifying, defining, collecting, analyzing, and synthesizing research-related problems in vocational and adult education. (S)

FAD 5260 Family Development (3). Dynamics of family interaction and structure, including analysis of socioeconomic and cultural influences, crisis-producing situations, and current issues and trends affecting the family unit. (AR)

FAD 5341 Family Development: Adulthood and Aging (3). Extension of the study of developmental patterns with emphasis on physical, intellectual, social, and emotional influences with particular emphasis on the family and/or family substitute. Graduate students will have additional requirements. (AR)

FAD 5450 Human Sexuality (3). Provides a cognitive overview of human sexuality. Main emphasis is on the affective dimension—an exploration of attitudes and values related to sexuality. (AR)

FLE 5895 Bilingual Education Teaching Methodologies (3). Examination of various approaches to bilingual education, including specific school and classroom organizations. Development of specific instructional strategies for bilingual students. Issues in elementary, secondary, adult, vocational, and special education will also be addressed. (F)

FLE 5908 Directed Study in Foreign Language Education (1-3) (ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F,S,SS)

FLE 5945 Supervised Teaching: Modern Languages (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Modified Master's Track Program and completion of prerequisite course work in education and subject matter area. (F,S)

FLE 6336 Methods of Teaching Modern Language (3). A modern study of language learning and teaching from the theoretical and practical points of view, including the evaluation and development of techniques and materials for second language teaching. Prerequisites: LIN 3010 or ENG 3500 or equivalent. (F,S)

FLE 6376 Teaching in Challenging and Remote Circumstances (3). Inquiry into face-to-face and remote modalities for teaching foreign language, including English to non-native speakers, with particular concentration on contexts of displacement, poverty, illness, and war.

FLE 6925 Special Topics in Second Language Education (1-3) (ARR). Production and application of materials and techniques in second language education in a laboratory or field setting. (S)

FLE 6938 Seminar in Second Language Testing (3). Advanced study and research on current topics and issues in the field of second language education. Variety of topics to include language testing. Language proficiency, language and society, bilingual-bicultural education, and error analysis and the language learner. (S,SS)

HEE 5335 Trends and Issues in Home Economics Education (3). This course is an analysis of current social, economic, and educational trends and issues impacting upon home economics education and their implications for current and evolving practices. (F)

HEE 5360 Teaching Child Development (3). This course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5361 Teaching Consumer Education and Family Economics (3). This course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5362 Teaching Clothing and Textiles (3). This course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5363 Teaching Family Life Education (3). This course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5364 Teaching Housing and Home Furnishings (3). This course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5365 Teaching Food and Nutrition (3). This course is designed to upgrade competency in planning, researching, and evaluating experiences that are current in content and educational strategies. (AR)

HEE 5905 Directed Study in Home Economics Education (1-3). This course is designed for advanced students in home economics education who wish to pursue specialized topics. Requires prior approval of instructor. (F,S)

HEE 5927 Special Topics in Home Economics Education (1-3). This course includes the development, organization, instruction, evaluation, and administration of programs related to selected aspects of home economics education. (S)

HEE 6156 Teaching Home Economics in Diverse Environments (3). This course consists of utilization of current educational developments, evolving strategies, materials, and resources to teach and evaluate home economics programs in diverse settings. (S)

HEE 6915 Research in Home Economics Education (3). This course is an analysis and application of research pertaining to philosophy, curriculum, evaluation, and teacher education in home economics. Subject to approval of program advisor. (F)

HEE 6928 Special Topics in Home Economics Education (1-3). This course includes the development, organization, instruction, evaluation, and administration of programs related to selected aspects of home economics education. (F,S)

HEE 6937 Seminar in Home Economics Education (3). This course is an application of selected instructional,

curricular, and/or administrative principles and practices to the solution of problems of special interest to home economics educators. Subject to approval of program advisor. (S,AR)

HES 5319 Teaching Health Education (4). Students will select various modern techniques and tools for teaching health education in elementary and secondary school settings. (AR)

HME 5225 Problems of Home Management in Contemporary Society (3). This course is the study of influence of diversified cultural impact on management life styles, with emphasis on problems of management resources. Discussion of problems related to single-parent homes, retirement, poverty, death, working parents, migrant families, and other human situations. Prerequisites: COA 2410, HME 4230, or permission of the instructor. (AR)

HME 5255 Independent Living for the Handicapped (3). This course explores the home and personal living skills required to empower persons with mental and physical limitations to achieve their maximum independence. Suitable for students in special education, health, physical education, recreation, social work, home economics or anyone planning to work with elderly or handicapped. Approved for certification for teachers of the mentally retarded. (AR)

HSC 5455 Basic Driver Education (3). Content includes knowledge of the highway transportation system, rules and regulations. For Driver Education Certification endorsement. (AR)

HSC 5456 Advanced Driver Education (3). Content includes advanced skills for the teaching of driver's education. Prerequisite: HSC 5455. (AR)

HSC 5465 Administration and Supervision of Driver Safety Education (3). Content includes competencies for teacher preparation and improvement in driver and traffic safety education. Prerequisites: HSC 5455 and HSC 5456. (AR)

LAE 5336C Special Teaching Lab – English (3). Development of Instructional Skills, Techniques, and Strategies for Teaching English in the Middle and Senior High School. Prerequisite: EDG 5414.

LAE 5355 Literacy Instruction in the Intermediate Grades (3). Provides understandings, skills, and dispositions needed to teach reading and writing to students who have advanced beyond beginning stages. Required for students in VE Modified Masters Program. Prerequisites: RED 5152 or equivalent. Corequisite: EEX 4940.

LAE 5415 Children's Literature (3). Required in Early Childhood, Elementary and Reading Education Master's Programs. Provides knowledge and skill in critical analysis of purposes, strategies for teaching and evaluation of children's literature.

LAE 5426 Multicultural Perspectives in Teaching Language and Literature for Young Adolescents (3). This course is designed to provide students with a theoretical and practical basis for teaching and reading multicultural literature in the secondary school. Prerequisite: Admission into the program. (AR)

LAE 5465 Adolescent Literature in Middle/Secondary Schools (3). This course examines a wide variety of adolescent and young adult literature. Assists students in the development of instructional strategies for organizing literary experiences among young learners. Prerequisite: Admission into program. (AR)

LAE 5908 Directed Study in English Education (1-3) (ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (AR)

LAE 5927 Special Topics in Language Arts (3). Available to undergraduate and graduate education majors. Provides opportunities to develop skills and knowledge of reading/language arts instruction. Permission of the instructor required. (AR)

LAE 5945 Supervised Teaching: English Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area. (S)

LAE 6305 Instruction in Early Childhood Language Arts (3). Required in Master's program in Early Childhood Education. Refines skills related to program development, methods of teaching, selection of materials, and review of research in preschool, kindergarten and primary grades. Prerequisites: LAE 4314 or permission of the instructor.

LAE 6319 Instruction in Integrated Language Arts (3). Elective in masters program in Elementary Education. Refines skills related to program development, methods of teaching, selection of materials, and review of research in elementary education. Prerequisites: LAE 4314 or permission of the instructor.

LAE 6338 Multidisciplinary Methods of Writing Instruction (3). This course will provide the educator with how to teach writing for all ability levels and to write for different audiences, purposes and discipline including but not limited to a digital environment.

LAE 6339 Teaching English in the Secondary School (3). Analysis of methods, programs, and materials for teaching English in the middle school and senior high school, and development of teaching skills. Prerequisite: Undergraduate course in methods of teaching English. (S)

LAE 6815 Computers in English and the Language Arts (3). Covers the basics needed to integrate computers in teaching language arts. Emphasizes selecting and learning to use software to meet objectives in language, literature, and composition. Corequisites: English major or equivalent. (AR)

LAE 6925-26 Special Topics in English Education (1-3). Production and application of materials and techniques in English education in a laboratory or field setting. (AR)

LAE 6935 Seminar in English Education (3). Designed for advanced students, the readings and discussions will focus on policy issues and recent research in English education. Though primarily for experienced English teachers and supervisors, the course is open to administrators and others, with the consent of the instructor. (F)

LAE 7938 Doctoral Seminar in English Education (3). Advanced doctoral study of current theories and research

related to English education. Prerequisites: LAE 6935, EDF 6486. (AR)

LEI 5166C Deviant Leisure (3). This course explores leisure pass times, that are forbidden by law, custom, or belief. Students will examine the negative aspects of leisure. (e.g. substance abuse, harmful sex, gambling and gang activity.)

LEI 5440 Program Development in Parks, Recreation, and Sports (3). This course examines the development of specific programs in parks, recreation, and sports. (S)

LEI 5510 Program Administration in Parks, Recreation and Sport (3). This course is a detailed analysis of administrative procedures and responsibilities in connection with parks, recreation facilities and human resources. (F)

LEI 5595 Seminar in Parks and Recreation Management (3). This course focuses on current problems, issues, and trends in the administration of parks and recreation programs. (F)

LEI 5605 Philosophical and Social Bases of Parks and Recreation Planning (3). This course concentrates on major phases of predesign, design, development, actualization of park and recreation facilities. The course will explore funding, budget, site selection, layout, and maintenance. (F)

LEI 5716 Program Planning in Recreational Therapy (3). Principles and practices in planning and implementing programs in recreational therapy settings. Special emphasis will be placed on a systematic approach through problem solving techniques. Prerequisite: LEI 3703. (S)

LEI 5719 Client Assessment, Evaluation and Documentation in Recreational Therapy (3). The course addresses client assessment, documentation and evaluation from the direct service perspective, administrative requirements, and health care regulatory agency demands. (S)

LEI 5801 Liability and Law in Leisure, Recreation and Sports (3). This course is a detailed analysis of legal issues related to leisure service, delivery and sport management including legal foundations, legal liability, disabled services and current case analysis. (S)

LEI 5907 Directed Study in Parks and Recreation Management (3). This course provides an opportunity for individuals interested in various aspects of park and recreation administration to work on their own under the close supervision of an advisor. Permission of the instructor is required. (F,S,SS)

LEI 6562 Leisure Services Marketing (3). This is an advanced application of service marketing principles and practices to both public and private leisure service industry to improve both effectiveness and efficiency of operations. (S)

LEI 6725 Administrative Aspects of Therapeutic Recreation (3). This is an in-depth examination of issues related to the roles and responsibilities of the Activity Therapies/Therapeutic Recreation Administrator. (S)

LEI 6726 Trends, Issues, and Managerial Aspects of Recreational Therapy (3). An examination of current issues, trends, and professionalization and managerial concerns in recreational therapy. Prerequisite: LEI 3703. (F)

LEI 6727 Disabling Conditions in Therapeutic Activity Services Administration (3). This is an in-depth review of disabling conditions for the development of in-service training in recreational therapy and adapted activity services. (S)

LEI 6815 Advanced Recreational Therapy Facilitation Techniques (3). Designed to provide an in-depth examination of RT facilitation techniques as they are implemented with individuals with various disabling conditions or limitations. (F)

LEI 6922 Supervised Field Experiences in Parks and Recreation Administration (3-6). This course provides a practical experience for individuals interested in administrative responsibilities. Permission of the instructor and Department Chairperson required. (F,S,SS)

LEI 6970 Thesis: Therapeutic Recreation (3-6). This is an elective in the Masters Recreational Therapy Track. It involves the design and preparation of an original scholarly investigation in recreational therapy. Prerequisite: EDF 5481. Corequisite: STA 6166. (AR)

MAE 5348 Numbers and Operations for Teaching in Grades K-5 (3). Study mathematics education in numbers and operations for teaching grades K-5 to build teachers' knowledge of content, curriculum, teaching methods and student learning. Prerequisites: MAE 4310 or equivalent course.

MAE 5382 Number Systems, Rational Numbers, and Operations for Teaching in Secondary School (3). Study mathematics education in number systems, rational numbers, and operations to build secondary teachers' knowledge of content, curriculum, teaching methods, assessment, and student learning.

MAE 5516 Diagnosis and Remediation in Mathematics (3). Available to undergraduate and graduate education majors. Provides study of symptoms, causes and consequences of children’s math difficulties. Supervised case study included. Prerequisites: MAE 4310, or permission of the instructor. (AR)

MAE 5655 Computers in Mathematics Education (3). Examines the use of computers (microcomputers) in secondary school mathematics. Designing, evaluating, and using varied types of programs in mathematics classes. Learning to use computers to design mathematics curriculum. (F)

MAE 5908 Directed Study in Mathematics Education (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F,S,SS)

MAE 5923 Special Topics in Elementary Math Education (3). Available to undergraduate and graduate education majors. Provides opportunities to produce and apply materials and strategies in math ed in elem and middle schools. (AR)

MAE 5945 Practicum: Mathematics Education (3-6). Supervised teaching and other professional development in an elementary, middle, or senior high school. Prerequisite: Permission of the instructor. (S)

MAE 6305 Instruction to Early Childhood Mathematics (3). Required in master's program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials and review of research, in preschool, kindergarten and primary grades. Prerequisites: MAE 4310 or permission of the instructor. (AR)

MAE 6318 Instruction in Elementary Mathematics (3). Required in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in elementary mathematics education. Prerequisites: MAE 4310 or permission of the instructor. (F,S,SS)

MAE 6336 Teaching Mathematics in the Secondary School (3). Analysis of methods, programs, and materials for teaching mathematics in the middle and senior high school, and development of teaching skills. Prerequisites: Undergraduate secondary math methods and permission of the instructor. (S)

MAE 6337 Algebra, Statistics and Probability for Teaching in Secondary School (3). Study mathematics education in algebra, statistics and probability to build teachers' knowledge of content, curriculum, teaching methods, assessment, and student learning.

MAE 6357 Elements of Algebra and Data Analysis for Teaching in Grades K-5 (3). Study mathematics education in algebraic thinking and data analysis for teaching grades K-5 to build teachers' knowledge of content, curriculum, teaching methods and student learning. Prerequisites: MAE 4310 or equivalent.

MAE 6358 Elements of Geometry and Measurement for Teaching in Grades K-5 (3). Study mathematics education in geometry and measurement for teaching grades K-5 to build teachers' knowledge of content, curriculum, teaching methods and student learning. Prerequisites: MAE 4310 or equivalent.

MAE 6381 Proportional Reasoning, Geometry and Measurement for Teaching in Secondary School (3). Study mathematics education in proportional reasoning, geometry, and measurement to build secondary teachers' knowledge of content, curriculum, teaching methods, assessment, and student learning.

MAE 6745 Current Trends and Issues in Mathematics Education (1-3). Trends and Issues in Math Curriculum, new textbooks, curriculum development projects; curriculum implementations and evaluations. Trends and Issues in Instruction, new techniques. Trends and Issues in Evaluations. "New tests", Research. (AR)

MAE 6899 Seminar in Mathematics Education (3). Designed to provide the advanced student with deeper understanding related to mathematics education. (SS)

MAE 6925 Workshop in Mathematics Education (1-3). Production and application of materials and techniques in math education in a laboratory or field setting.

MAE 7165 Curriculum Development in Mathematics Education (3). This course is required in the Ed.D. degree program in mathematics education. It will examine the history of K-12 mathematics curriculum and the current issues in mathematics education. Prerequisites: MAE 5655, MAE 6336, MAE 6899, and the entire advanced core.

MAE 7938 Doctoral Seminar in Mathematics Education (3). Advanced doctoral study of current theories and research related to mathematics education. Prerequisites: EDF 6486, minimum of 3 doctoral level math courses.

MHS 5340 Educational-Vocational Counseling (3). This course explores concepts and skills pertaining to vocational development, information systems, career education programs, educational-vocational counseling, and socio-psychological influences on career development. Prerequisite: MHS 5400.

MHS 5400 Counseling Skills and Techniques (3). Major theoretical concepts in counseling, competencies in relationship-building, interviewing, role-playing, simulation, and micro-counseling will be explored in this course.

MHS 5460 Crisis Counseling and Intervention (3). Prevention and intervention strategies in crisis situations including child abuse and neglect, suicide, substance abuse, AIDS, and personal loss. (AR)

MHS 6020 Foundations of Mental Health (3). This course provides an examination of the significant events in the history of mental health care that has contributed to the development of the specialty within the counseling profession. Prerequisite: MHS 5400.

MHS 6200 Measurement and Appraisal in Counseling (3). This course will provide an in depth examination of the concepts and skills related to the use of tests and other appraisal procedures in counseling. Prerequisite: EDF 5481.

MHS 6410 Behavioral and Cognitive Modification Techniques in Counseling and Education (3). In this course, concepts and skills in using behavior modification, contingency contracting, cognitive behavior management, self-instructional training, problem solving skills and parent and/or teacher consultation.

MHS 6411 Counseling and Consultation in Community Settings (3). Extended laboratory experiences stressing the development of behavioral/cognitive intervention skills in short-term counseling and consultation. Prerequisites: MHS 5400 and MHS 6700.

MHS 6427 Adult Psychopathology (3). The study of the causes, treatment, and diagnosis of emotional and behavioral disturbances in adults will be examined in this course. Prerequisite: MHS 5400.

MHS 6428 Cross Cultural Counseling (3). In this course, concepts and skills involved in counseling clients with backgrounds different from the majority culture. Prerequisite: MHS 5400.

MHS 6450C Substance Abuse Counseling (3). This course will educate mental health practitioners in understanding substances and techniques in counseling those who abuse them. Prerequisite: MHS 5400.

MHS 6470 Human Sexuality Counseling (3). This course addresses counseling issues, strategies and resources in human sexuality relative to mental health professionals. Prerequisite: MHS 5400.

MHS 6500 Theories in Group Dynamics (3). A systematic examination of various theories and relevant research used in study of small group phenomena will be addressed. Prerequisites: MHS 5340, MHS 6513. (AR)

MHS 6505 Advanced Group Development Laboratory (3). Development of advanced skills in the analysis and understanding of group process, function, and structures through actual observation of an ongoing group will be addressed in this course. Prerequisites: MHS 6513, MHS 6514. (AR)

MHS 6511 Group Counseling (3). Exploration of roles and function of group counseling in meeting client needs in a variety of settings. Prerequisite: MHS 5400.

MHS 6512 Organization Development in Education (3). An analysis of theory and practice of organization development and planned change in educational systems. Prerequisites: MHS 6513 and MHS 6514. (AR)

MHS 6513 Human Interaction I: Group Process and Social Behavior (3). In this course, concepts, research, and theory relative to small group process. Students will participate in small face-to-face task groups, with an emphasis on developing competencies in diagnosis and intervention in small groups.

MHS 6514 Human Interaction II: Analysis of Group Participation (3). A focus on participation in an on-going group with attention given to examination of processes of small group phenomena such as interpersonal communication, norms, decision-making, leadership, authority, and membership will be provided in this course. Prerequisite: MHS 6513.

MHS 6519C Principles of Design in Group Intervention: Role of the Consultant (3). This course focuses on role of leader or trainer in complex training design in leadership and human relations training. Emphasis on diagnostic and behavioral skills that help groups become more effective. Prerequisites: MHS 6513, MHS 6514, MHS 6500, and MHS 6513. (AR)

MHS 6629 Human Interaction III: Organizational Consultation (3). Theoretical concepts and skills in organizational development and change will be examined as well as competencies in systems diagnosis and assessment, consultation, agenda setting, team building, decision-making, and feedback. Prerequisites: MHS 6513, MHS 6514. (AR)

MHS 6630 Program Evaluation and Research in Counseling & School Psychology (3). Prepares in foundational research skills & evaluates skills in the student's area of specialization, including competencies in designing evaluation proposals and conducting a program evaluation.

MHS 6700 Ethical, Legal and Professional Issues in Counseling (3). This course will provide an introduction to the ethical, legal and professional practices in the field of counseling.

MHS 6800 Advanced Practicum in Counseling (3). In this course, advanced competencies in counseling and consultation will be provided. Prerequisite: Course work completion.

MHS 6802 Personality Theories (3). In this course, a survey of the various cognitive, psychodynamic, behavioral, humanistic, existential and family systems theories of personality development and change will be examined.

MHS 6820 Supervised Field Experience in Counseling (4-9). A demonstration of the full range of competencies learned throughout the program in Counseling will be established through an internship. The internship placements include a variety of field settings. Prerequisites: MHS 6800 and course work completion.

MHS 6910 Directed Study in Counseling and School Psychology (1-6). Competencies contracted for between a student and an instructor in accordance with the student's individual needs will be permitted in this course. Permission of the instructor required.

MHS 6930 Special Topics in Counseling and School Psychology (1, repeatable to 9). In this course, special topics in relation to counseling or school psychology will be examined. Permission of the instructor required.

PEP 5115 Strength and Conditioning Techniques for Human Performance (3). This course provides the knowledge and skills to evaluate and prescribe health and fitness enhancement programs for healthy adults. (F)

PEP 5116 Exercise Prescription (3). This course provides the knowledge to prescribe exercise for persons with medical limitations, particularly cardiovascular disease. Prerequisites: APK 3110 and PET 5521. (S)

PEP 5117 Fitness for Older Adults (3). The course explores the value of physical activity for improving the physical and mental well being of older adults. Emphasis is placed on exercise prescription and supervision of programs for those working with older adults. Prerequisite: APK 3110. (AR)

PET 5052C Motor Learning for Sport Performance (3). The emphasis in this course is on current and advanced topics related to motor skill acquisition. Laboratory practices and applied techniques related to teaching are examined. (F)

PET 5206 Youth Sports (3). This course provides insight into the issues surrounding youth sport programs including: program development and analysis, parental influences, relationship of sport to psycho-socio development. (AR)

PET 5216 Sport and Exercise Psychology (3). This course includes an analysis of psychological variables that influence physical performance. The course is intended for prospective physical educators, coaches, and others interested in motor performance. (S)

PET 5256 Sociology of Sport (3). Students will be introduced to basic principles of the sociological bases of sport and physical activity. (S)

PET 5368 Exercise, Diet and Weight Management (3). The class prepares students to compare the effectiveness of exercise and several popular diets on weight control and body composition. Prerequisites: HUN 2201 and APK 3110.

PET 5391C Comprehensive Conditioning of Elite Athletes (3). The course prepares a student to develop a comprehensive conditioning program including metabolic, speed, flexibility, plyometric and resistance training. Prerequisite: APK 3110.

PET 5426 Curriculum in Physical Education (3). The emphasis is on curriculum design and development for

Physical Education. Includes examination of objectives, content, methods of teaching and evaluation.

PET 5436 Physical Education Curriculum: K-8 (3). This course examines objectives, content, methods of teaching, and evaluative techniques in physical education. The emphasis is on curriculum design and development.

PET 5447 Curriculum in Physical Education 6-12 (3). The goal of this course is to understand the theoretical and practical aspects of designing, developing, and implementing curriculum for the secondary school.

PET 5521 Exercise Test Technology (3). This course provides the knowledge and skill required to conduct an EKG monitored graded exercise test. Prerequisite: APK 3110. (F)

PET 5693 Athletic Performance Assessment and Exercise Prescription (3). The course prepares a student to test and prescribe exercise programs for athletic and human performance. Prerequisite: APK 3110.

PET 5906 Directed Independent Study in Kinesiology (1-3). Students will work independently on a topic concerning some phase of physical education or sport under the guidance of a faculty member. Registration is by permission of advisor. (F,S,SS)

PET 5925 Practicum in Physical Education (1-3). This course focuses in the production and/or application of materials and techniques for physical education in a classroom and/or field setting. (F,S)

PET 5936 Special Topics in Kinesiology (1-3). This course presents contemporary issues and practices in physical education and sport. (AR)

PET 5948 Practicum in Kinesiology (3). This course focuses on the production and/or application of materials and techniques for physical education in a classroom and/or field setting.

PET 6405 Health Fitness Director (3). This course prepares the student for ACSM's Health Fitness Director certification. Prerequisites: APK 3110 and PEP 5115. (SS)

PET 6535 Master of Science Research in Exercise and Sports Sciences (1-3). The course is for graduate students performing an independent research project (treatise) or thesis as part of the graduate program of study. Prerequisites: EDF 5481 or equivalent and PET 6597 – Survey of Research.

PET 6558 Human Performance in Extreme Environments (3). Maintaining optimal health, fitness, and performance during physical work in stressful environments including heat, altitude, cold and underwater pressure. Prerequisites: Anatomy, Physiology, Exercise Physiology.

PET 6597 Research in Kinesiology (3). This course covers the methods and techniques used in research in Kinesiology and Physical Education. The emphasis is on effective use of resources and writing techniques. (F)

PET 6785 Exercise Program Director (3). This course prepares the student for ACSM's Exercise Program Director certification examination. Prerequisites: APK 3110, PET 5521, and PEP 5115. (SS)

PET 6925-27 Practicum in Physical Education (1-3). This course focuses on the production and/or application of materials and techniques for physical education in a classroom and or field setting. (F,S)

PET 6932 Seminar in Kinesiology (3). Students will participate in the exploration, examination, and discussion of problems, issues, and trends in physical education and sport. (AR)

PET 6938 Graduate Research Seminar (1). The seminar is designed to introduce the graduate student to basic science concepts and hands on experience with scholarly inquiry in the sport and leisure science. Corequisite: EDF 5481.

PET 6940 Internship in Exercise Physiology: Graduate (3-6). This is a clinical experience, supervised by physician, designed to provide the student with competence in exercise prescription and leadership in preventive and rehabilitative outpatient exercise programs. Prerequisites: PET 5387, PEP 5115, and PEP 5116. (F,S,SS)

PET 6944 Supervised Field Experience (3-9). Students may use this course to become involved in an in-depth study, research project, or any one of a variety of other activities, under the guidance of a faculty member. (AR)

RCS 6031 Rehabilitation Counseling: Principles and Practices (3). A survey course that provides an orientation to the rehabilitation process including the history, principles, philosophy, and legal aspects of rehabilitation counseling and related fields.

RCS 6080 Medical Aspects of Disability (3). Medical etiology and remediation of disability. Includes genetic, biochemical, nutritional, and physical agents in mental retardation, learning disability, and emotional handicaps. Prerequisites: EEX 3202 or equivalent. (F)

RCS 6245 Psychological/Sociological Aspects of Disability (3). Psychological/sociological aspects of disability in relation to socio/political forces, attitudes, and behaviors that impede or facilitate the options of individuals with disabilities in schools and communities. (AR)

RCS 6625 Service Delivery and Case Management in Rehabilitation Counseling (3). This course covers an evaluation of disability and rehabilitation potential in the context of service delivery and case management in the vocational rehabilitation process. Prerequisite: RCS 6031 Rehabilitation Counseling: Principles and Practices.

RCS 6801 Advanced Practicum in Counseling and Consultation (3). Advanced competencies in counseling and consultation.

RCS 6821 Supervised Field Experience in Counseling and Consultation (9). Demonstration of the full range of competences learned throughout the program in counseling. Internship placements include a variety of field settings. Prerequisite: RCS 6801.

RED 5147 Developmental Reading (3). Process of reading. Principles, procedures, organization and current practices in the developmental reading program. Overview of instructional practices.

RED 5304 Literacy Instruction in the Primary Grades (3). Provides understandings, skills and dispositions needed to teach reading and writing to students who are beginning to become literate. Required for students in VE

Modified Masters Program. Prerequisites: EDG 5415 and EDG 5415L. Corequisite: EEX 4940.

RED 5339 Subject – Related Reading (3). Skills, techniques and strategies for scaffolding the reading of struggling students and enhancing the comprehension and learning independence of all students using subject area materials.

RED 5447 Analysis and Production Reading Materials (3). Elective in graduate program in Reading Education. Exploration, creation, and evaluation of basic reading materials. Prerequisites: RED 4150 or equivalent. (AR)

RED 5448 Teaching Reading by Computer (3). Elective in graduate program in Reading Education. Exploring literacy development with technology. Evaluation and creation of computer programs for teaching reading in grades 4-12. No prior computer experience is required. (AR)

RED 5911 Directed Study in Reading (1-3). Elective in Reading Education. Directed study in area of reading instruction. Permission of the instructor required. (AR)

RED 5925 Special Topics in Reading (3). Elective in master's program in Reading Education. Study in a specified area of reading education. (AR)

RED 6008 Family Literacy: Research and Practice (3). This course examines early and family literacy practices including how these practices are similar and different from school practices. Family literacy programs are critically examined. Prerequisite: Must be a graduate student.

RED 6247 Organization and Supervision of Reading Program (3). Required in graduate program in Reading Education. Philosophy, history design, and operation of public and private reading programs. Prerequisites: RED 6314 or equivalent. (F,S)

RED 6305 Instruction in Early Childhood Reading (3). Required in graduate program in early childhood education. Program development, methods of teaching, selection of materials, and review of research, in preschool and early childhood reading education. Prerequisites: RED 4150 or equivalent. (AR)

RED 6314 Theory and Instruction in Literacy (3). Required in graduate program in elementary and reading education. Process of reading program development, methods of teaching, selection of materials, and review of research in elementary reading education. Prerequisites: RED 4150 or equivalent. (AR)

RED 6336 Reading in the Content Areas (3). Required in graduate programs in Elementary and Reading Education and in secondary Modified Master's Programs. Strategies for developing the reading abilities of students in specific subject areas. Prerequisite: RED 6314 For Reading Education majors. (AR)

RED 6515 Programs of Remediation in Reading (3). Required in graduate program in Reading Education. Knowledge and strategies necessary to improve students' reading abilities. Prerequisites: RED 6314 or RED 6305, RED 6546, or their equivalents. (SS)

RED 6540 Reading Assessment (3). Formal and informal assessment for evaluating students and planning data-driven instruction in reading. focus on record keeping and tracking progress, PK-college. Required for MS in reading.

RED 6546 Diagnosis of Reading Difficulty (3). Required in graduate program in Reading Education. Knowledge and strategies necessary to assess students' reading abilities. Prerequisites: RED 6155 or RED 6305, or its equivalent. (AR)

RED 6747 Research in Reading (3). Required in doctoral program and thesis track of Reading Education Master's program. Elective in standard Master's track. Includes reading research, critique, methodology and planning. Prerequisite: EDF 5481. (F,S)

RED 6805 Practicum in Reading (3). Elective in graduate program in Reading Education. Supervised experience as reading professional in teaching, assessing, supervising, or research role. Prerequisite: RED 6314. (F,S)

RED 6845 Clinical Procedures in Reading (3). Elective in graduate program in Reading Education. Reading diagnosis, instruction, and reevaluation in a clinical setting. Prerequisites: RED 6515, RED 6546. (AR)

RED 6931 Seminar in Reading Education (3). Required in doctoral program and thesis track of reading master's program. Elective in standard Master's track. Deals with theory and practice of reading instruction. Prerequisites: Permission of the instructor and RED 6747. (AR)

RED 6932 Critical Issues in Reading Education (3). Elective in Reading Education master's program. Explores topics in specific reading education. (AR)

RED 6971 Thesis in Reading Education (6). Required in thesis track of reading master's program. Design, implementation, and written report of an original research investigation in reading education. Prerequisites: Advanced graduate standing and consent of instructor. (F,S,.SS)

RED 7642 Critical Issues in Literacy Research and Practice (3). This course will focus on a variety of critical issues in literacy, including various types of research and practice. Open to all graduate students. Prerequisite: Must be a graduate student.

RED 7912 Doctoral Directed Study in Reading (1-6). An elective course in the reading education doctoral program. Directed research in a specified area of reading education. Repeatable. Prerequisite: Admission to reading education doctoral program. (AR)

RED 7938 Doctoral Seminar in Reading Education (3). Required in Reading Education doctoral track. Advanced study in current theories and research related to reading education. Prerequisites: RED 6747, RED 6931. (AR)

SCE 5314 Teaching and Learning in Elementary Science Education (3). This course focuses on advanced pedagogy and curriculum development tor teaching K-6 science, emphasizing high-quality, research-based science instruction to engage a diverse group of learners. Corequisite: Placement or current teaching in a school.

SCE 5337 Secondary Science Lab: Methods and Materials (3). Increase the quantity and quality of laboratory experiences for secondary students by managing the laboratory safely, selecting appropriate activities, and evaluating student performance.

SCE 5905 Directed Study in Science Education (1-3). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F,S,SS)

SCE 5930 Special Topics in Elementary Science Education (3). Available to undergraduate and graduate education majors. Provides knowledge and skills, content, strategies and materials for teaching elementary science. Permission of the instructor required. (AR)

SCE 5937 Special Topics in Grades 6-8 Science Education (3). Curriculum and instruction focus is on grades 6-8 inquiry and reformed-based practices in earth/space science. Aligned with a new national K12 Science Education and FL NGSSS. Corequisite: Placement or current teaching in a school.

SCE 5945 Supervised Teaching: Science Education (6). Supervised teaching in a middle or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area. (F,S)

SCE 6306 Instruction in Early Childhood Science (3). Required in masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades. Prerequisites: SCE 4310 or permission of the instructor. (AR)

SCE 6315 Instruction in Elementary Science (3). Required in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in elementary science education. Prerequisites: SCE 4310 or permission of the instructor. (AR)

SCE 6317 Teaching and Learning Interdisciplinary Approaches in Elementary Science Education (3). Curriculum and instruction focus is on K-5 inquiry and reformed practices based upon A Framework for K-12 science education: practices, crosscutting concepts, and core ideas: earth and space science. Corequisite: Placement or current teaching in a school.

SCE 6325 Instruction in Middle School Science (3). Refines skills related to program development, methods of teaching, selection of materials, and review of research in middle school science education. Focus is on 6-8 content and methods of teaching. Corequisite: Placement or current teaching in a school.

SCE 6366 Teaching Science in the Secondary School (3). Analysis of methods, programs, and materials for teaching science in the junior and senior high school, and development of teaching skills.

SCE 6545 Science Education and Community Resources (3). This course examines the utilization and cultivation of community resources to meet science education goals for various populations. (AR)

SCE 6925-26 Workshop in Science Education (1-3). Production and application of materials and techniques in science education in a laboratory or field setting. (AR)

SCE 6931 Special Topics in Science Education (3). An individual topic or limited number of topics not otherwise offered in the curriculum that facilitate science teaching in the elementary school will be selected. (AR)

SCE 6933 Seminar in Science Education (3). Analysis of research trends and selected topics in science education. Mainly for graduate students in secondary science education. Individual needs and interests will determine the fine structure of the course content. (S)

SCE 7145 Curriculum Development in Science Education (3). Analysis of theoretical basis of curriculum development in Science Education. Evaluation of currently available material. Development and testing of science curriculum materials. Prerequisites: SCE 6933, EDF 6486. (S)

SCE 7761 Research in Science Education (3). Application of research methodology to Science Education. Analysis of current research. Development of research proposal in Science Education. Conduct field study. Prerequisites: SCE 6933, EDF 6486, SCE 7145. Corequisite: SCE 7938. (SS)

SCE 7938 Doctoral Seminar in Science Education (3). Advanced doctoral seminar in current theories and research related to science education. Prerequisites: SCE 6933, EDF 6486. (SS)

SDS 5420 Counseling Students with Exceptionalities (3). An overview of academic, personal, social and career needs of students with physical and emotional disabilities and counseling implications and strategies for working with special education students.

SDS 5460 Crisis Counseling and Intervention (3). This course addresses prevention and intervention strategies in crisis situations including child abuse and neglect, suicide, substance abuse, AIDS, and personal loss. Prerequisite: MHS 5400. (S,SS)

SDS 6411 Counseling Children and Adolescents (3). Theory and application of counseling elementary age children and adolescents including family issues and interventions, legal and ethical considerations and counseling at-risk and exceptional children. Prerequisite: MHS 5400.

SDS 6700 Organization and Administration of School Counseling (3). This course covers components, elements and interventions of comprehensive, developmental school counseling program models with an emphasis on system organization, administration, and evaluation. (F,SS)

SDS 6784 School Law for Student Service Workers (3). An overview of current legal issues and problems for school counselors, psychologists and social workers are addressed. (SS)

SDS 6800 Advanced Practicum in Counseling (3). A field experience in a school setting that covers advanced competencies and application of individual and group counseling and consultation. Prerequisites: Course work completion, advisor approval. (F,S,SS)

SDS 6820 Supervised Field Experience in Counselor Education (9). This internship course covers a practical demonstration of the full range of competencies learned throughout the school counseling program. Internship placements include a variety of school field settings.

Prerequisites: Coursework completion and SDS 6800. (F,S)

SDS 6930 Special Topics in Counseling and School Psychology (3, repeatable to 9). Courses covering special topics in relation to counseling or school psychology. (F,S,SS)

SMT 6055 Research and Teaching for Change in STEM Education (3). Provides an overview of justice, diversity, and inclusion in K-16 STEM education and prepares students to act against the inequities they witness on macro and micro levels.

SMT 6105 Knowing and Learning in STEM Education (3). Students will develop a deep understanding of learning theories and how these help inform research in formal and informal STEM education settings.

SMT 6120 Issues and Perspectives in STEM Education Research (3). Provides an overview of issues and perspectives in STEM education research. Students will explore historical and current trends and consider various approaches to conducting STEM education research.

SPM 5156 Sports Management and Administration (3). Examination of skills and knowledge required in the management and administration of sports-related careers in athletics, recreation, or industry. Prerequisites: Basic management courses: MAN 3025, PAD 4432 or equivalent.

SPM 5308 Sport Marketing (3). This course is an examination of the principles and processes of sport marketing. Focuses on the essentials of the sport marketing mix and marketing strategies in the modern sport marketplace.

SPS 5942 Foundational Practicum in School Psychology (1-3). This introductory practicum course allows students to develop beginning clinical skills in school psychology within an applied (e.g., school) setting including assessment and intervention. Course can be repeated.

SPS 6190 Academic Assessment and Intervention in the Schools (3). Students will receive supervised practice using norm-referenced and curriculum-based measures to provide academic assessments and monitor academic progress. Emphasis will be placed on linking academic assessment to intervention. Prerequisite: EDF 5481.

SPS 6191 Psycho-Educational Assessment I: Intellectual (3). This course addresses competencies in the assessment of intellectual ability and adaptive behavior in children. Corequisite: SPS 6191L for School Psychology majors. No corequisite for other majors. (F)

SPS 6191L Psycho-Educational Assessment I: Lab (2). Practical skills in the assessment of intellectual ability and adaptive behavior in children are covered in this course. Corequisite: SPS 6191. Lab fee required. (F)

SPS 6192 Psycho-Educational Assessment II: Process (3). This course addresses competencies in the assessment of psycho-educational processes in children and their relationship to intellectual ability. Corequisite SPS 6192L for School Psychology majors. No corequisite for other majors. Prerequisite: SPS 6191. (S)

SPS 6192L Psycho-Educational Assessment II: Lab (2). Practical skills in the assessment of psycho-educational processes in children are covered in this course. Emphasis on assessing disorders in the visual, auditory, haptic, language, and sensory integration areas. Corequisites: SPS 6191, SPS 6191L. Lab fee required. (S)

SPS 6193 Psycho-Educational Assessment III: Behavior (3). Competencies in behavioral and personality assessment of students within the school setting with emphasis on projective testing and behavioral observations are addressed in this course. Corequisite: SPS 6193L. Prerequisites: SPS 6191, SPS 6192. (SS)

SPS 6193L Psycho-Educational Assessment III: Lab (3). Practical skills in projective and behavioral assessment of students within the school setting are covered in this course. Corequisite: SPS 6193. Prerequisites: SPS 6191, SPS 6192. Lab fee required. (SS)

SPS 6199 Family-School Consultation and Collaboration (3). This course is designed to develop essential communicative/interactive interpersonal skills, as well as collaborative problem-solving skills, in special education, counseling, and school psychology graduate students. Corequisite: Graduate standing. (AR)

SPS 6678 Supervised Field Experience in School Psychology (1-10). An internship where students demonstrate of the full range of competencies learned throughout the program in School Psychology. Internship placements include a variety of field settings. (F,S)

SPS 6805 Professional Problems in School Psychology (3). In this course competencies in regard to the development, role and function of school psychologists are covered. General orientation and legal and ethical issues are included. (F)

SPS 6910 Supervised Research in School Psychology and Educational Research (1-6). Graduate level research in School Psychology or Educational Research under the direction of a faculty member. Course can be repeated.

SPS 6930 Academic and Behavioral Interventions in the Schools (3). An introduction course to effective academic and behavioral school-based interventions including a functional assessment of behavior. (SS)

SPS 6941 Supervised Practicum in School Psychology (1-3). Student engage in supervised clinical experience. This course may be repeated. Prerequisites: SPS 6805 and permission of the instructor.

SPS 6943 Advanced Practicum in School Psychology (1-3). This advance practicum course allows students to develop intermediate/advance clinical skills in school psychology within clinical/school settings. Course can be repeated. Prerequisite: SPS 6941.

SPS 7176 Consultation and Assessment with Culturally and Linguistically Diverse Populations (3). Issues in consultation and assessment of individuals with culturally and linguistically diverse backgrounds. (AR)

SPS 7195 Child Psychopathology: Assessment and Intervention in the Schools (3). This course emphasizes the consideration of development issues and processes when conceptualizing psychopathology and is designed to prepare school psychology students to provide

assessment, direct intervention, and indirect intervention services in school settings. Prerequisite: SPS 6805.

SPS 7407 Behavioral Intervention in the Schools (3). This course is designed to introduce techniques of behavioral intervention applicable to the school setting. A problem solving approach to prevention and intervention at the individual, class and school level will be emphasized.

SPS 7705 Neuropsychological Issues in School Psychology (3). This course provides a review of neuropsychological theories and research that pertains to children and schooling. The goal of this course is to provide competencies in the application of neuropsychological perspective in school settings. Prerequisite: SPS 6191.

SSE 5381 Developing a Global Perspective (3). Theory, content, and practice. Introduction and utilization of learning materials and teaching strategies in Global Education for K-12.

SSE 5385 Special Teaching Laboratory: Social Studies (3). Development of instructional skills, techniques, and strategies for teaching Social Studies in the Middle School and Senior High School. Prerequisite: EDG 5414.

SSE 5908 Directed Study in Social Studies Education (1-3) (ARR). The student plans and carries out an independent study project under direction. Prerequisite: Consent of instructor. (F,S,SS)

SSE 5929 Workshop in Elementary Social Studies Education (3). Available to undergraduate and graduate education majors. Provides knowledge and skills, content, strategies and materials for teaching social studies. Permission of the instructor required. (AR)

SSE 5945 Supervised Teaching: Social Studies Education (6). Supervised teaching in a middle or senior high school. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and subject matter area. (S)

SSE 6305 Instruction in Early Childhood Social Studies (3). Required in masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades. (AR)

SSE 6355 Instruction in Elementary Social Studies (3). Required in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of materials, and review of research in elementary social studies education. (AR)

SSE 6394 Social Studies in Other Nations (3). The course will examine the concept of social studies as a subject area in elementary and secondary schools found in both developed and developing nations. Comparisons and contrasts will be made. Prerequisites: SSE 6633, SSE 6939. (AR)

SSE 6633 Teaching Social Studies in the Secondary School (3). Analysis of methods, programs, and material for teaching social studies in the middle and senior high school, and development of teaching skills. (S,SS)

SSE 6795 Seminar: Research in Social Studies Education (3). The course will examine research in social studies education. The course will serve as a lab for developing a dissertation research design. Prerequisite: EDF 5481. Corequisites: EDF 6486, EDF 6403 or EDF 6475. (AR)

SSE 6924 Workshop in Content, Method, and Materials of Teaching Social Studies (1-3). Focus on content, methods, and materials needed for teaching social studies in the elementary school, K-6. (AR)

SSE 6925-28 Workshop in Social Studies Education (1-3). Production and application of materials and techniques in social studies education in a laboratory or field setting. (AR)

SSE 6939 Seminar in Social Studies Education (3). Designed for advanced students, the readings and discussions will focus on policy issues and recent research in social studies education. Though primarily for experienced social studies teachers and supervisors, the course is open to administrators and others, with the consent of the instructor. (S)

SSE 7938 Doctoral Seminar in Social Studies Education (3). Advanced doctoral study in current theories and research related to social studies education. Prerequisites: SSE 6939, EDF 6486. (AR)

TSL 5086C TESOL Issues and Methodologies I (3). Initial teacher preparation course which introduces issues, principles, and practices for teaching English to non-English speakers. Fulfills requirements.

TSL 5087C TESOL Issues and Methodologies II (3). Initial teacher preparation course which provides understanding, skills and dispositions needed to select, evaluate, and apply TESOL strategies in classrooms with non-English speakers. Fulfills requirements. Prerequisite: TSL 5086C.

TSL 5142 Curriculum Development in English as a Second Language (3). Description, analysis, planning, design, and evaluation of curriculum in English as a second language (K-adult). (F,S)

TSL 5245 Developing ESOL Language and Literacy (3). This course examines how linguistic theories are applied in the classroom for the development of language and literacy in language minority students. (F,S)

TSL 5253 Love and Language: Peace Building in the Foreign Language Classroom (3). This class explores the relationship between language and emotion, and investigates how this relationship and the field of peace linguistics can inform pedagogy in the language classroom

TSL 5361C TESOL for Secondary Teachers (3). Analysis, application and adaptation of ESOL methods to enhance instruction for linguistically and culturally diverse students. Emphasis on secondary level learners. Fulfills META requirements.

TSL 5371 Special Methods of TESOL (3). Investigation of modern techniques for the teaching of oral and written communication in English to non-native speakers of English, including the evaluation and development of materials for English to speakers of other languages. Issues in elementary, secondary, adult, vocational, and special education will also be addressed. (F,S)

TSL 5806 Bilingualism and Multilingualism in Language Education (3). Examination of foundations of multilingualism and how such supports contextualized language learning through inquiries into dual language development and language policy.

TSL 5938 Principles of ESOL Testing (3). Advanced study and research on current issues in the field of ESOL testing. Topics include principles and practices of ESOL testing for classroom use, communicative language test development, criteria for evaluating testing instruments, and study of standardized ESOL tests. Prerequisites: TSL 5371 or TSL 4340. (S)

TSL 6350 Troublesome English: Grammar for ESOL Teachers (3). Course is designed to enhance ESOL teachers' ability to understand and explain the operation of American English grammar using an inductive approach of exploration and discovery. (AR)

TSL 6375C Teaching ESOL Pronunciation and Accent Reduction (3). A course in the TESOL Master's program investigating the theories and methods of teaching pronunciation skills to ESOL students. Prerequisite: LIN 3010.

TSL 6376C Reading and Writing Strategies for ESOL Students (3). A Master's level course in the TESOL Master's program investigating theories and methods of teaching literacy skills, namely reading and writing, to ESOL students.

TSL 6908 Field Component (3). Provides opportunity to carry out a variety of projects designed to develop critical reflection about teaching beliefs and practices in an ESOL classroom environment. Prerequisites: Admission to MS/TESOL program and completion of required course work. (F,S)

School of Environment, Arts, and Society (SEAS)

The School of Environment, Arts and Society (SEAS) was launched in the Spring of 2010 in response to the growing need for innovative thinkers and leaders to address the complex environmental and societal challenges of the 21th century. SEAS supports the broad traditional disciplinary work within each of its departments while facilitating interdisciplinary approaches to understand the drivers of these pressing challenges, identify solutions, educate current and future leaders, and inform the public.

As an integral part of the College of Arts, Sciences and Education, SEAS unites faculty and students in the natural and social sciences with those in the humanities. SEAS links environmental thinking and action at every level and provides Worlds Ahead research and education at the BA, MS, and PhD levels in the Departments of Biology, Earth and Environment, and English.

Drawing on Miami's unique coastal, inter-American and cosmopolitan locale, SEAS students and faculty are at the forefront of environmental research and are working to ensure a sustainable future for Florida, the country, and the world. To further its global mission SEAS houses a number of premiere centers and programs including the Institute of Water and Environment, the Tropical Conservation Institute, the International Center for Tropical Botany, the Marine Sciences Program, the Creative Writing Program, the Center for the Humanities in an Urban Environment, and the Agroecology Program.

Biological Sciences

***DeEtta K. Mills,** *Associate Professor and Chairperson and Director, International Forensic Institute*
Matthew Anderson, *Assistant Teaching Professor*
***Christopher Baraloto,** *Professor and Director International Center for Tropical Botany, and Associate Director, Institute of Environment*
***M. Alejandro Barbieri,** *Professor*
Ana Paula Benaduce, *Assistant Teaching Professor*
***Bradley C. Bennett,** *Professor*
***Kevin Boswell,** *Associate Professor and Director of Marine Biology Undergraduate Studies*
***Heather D. Bracken-Grissom,** *Associate Professor and Assistant Director of the Coastlines and Oceans Division of the Institute of Environment*
Lisa Brinn, *Teaching Professor*
Richard P. Brinn, *Teaching Professor*
Mark J. Butler, IV , *Walter and Rosalie Goldberg Professor of Tropical Ecology and Conservation*
***Justin E. Campbell,** *Assistant Professor*
***Alessandro Catenazzi,** *Assistant Professor*
***Ligia Collado-Vides,** *Teaching Professor and Associate Chairperson*
***Laurel S. Collins,** *Professor*
***Timothy M. Collins,** *Professor*
***Christian Cox,** *Assistant Professor*
John Cozza, *Associate Teaching Professor*
***Todd Crowl,** *Professor and Director, Institute of Environment*
***Matthew DeGennaro,** *Associate Professor*
Bryan M. Dewsbury, *Associate Professor*
***Maureen A. Donnelly,** *Professor and Counselor to the Deans, College of Arts, Sciences and Education*
Nathan J. Dorn, *Associate Professor*
Alain Duran, *Assistant Teaching Professor*
***Sarah Eddy,** *Assistant Professor*
***Jose Maria Eirin-Lopez,** *Associate Professor*
Sian Evans, *Associate Teaching Professor*
***James W. Fourqurean,** *Distinguished University Professor and Director of the Division of Coastlines and Oceans and Associate Director of the Institute of Environment*
Janna Fierst, Associate Professor*
***Javier Francisco-Ortega,** *Professor*
***Evelyn E. Gaiser,** *Professor and George M. Barley Jr. Endowed Chair of Everglades Research*
***Daniel Gann,** *Assistant Professor*
Sat Gavassa, *Associate Teaching Professor*
John Geiger, *Associate Teaching Professor*
Camila Granados-Cifuentes, *Assistant Teaching Professor*
***Alastair Harborne,** *Assistant Professor*
***Michael Heithaus,** *Professor and Executive Dean, College of Arts, Sciences and Education*
***Lou Kim,** *Associate Professor*
***Jeremy Kiszka,** *Assistant Professor*
***John S. Kominoski,** *Associate Professor*
***Lidia Kos,** *Professor and Associate Dean, University Graduate School and Associate Vice President, Research and Economic Development*
Marcy Kravec, *Associate Teaching Professor and Associate Director for Faculty Leadership and Success, Office of the Provost*
Alexis Lainoff, *Assistant Teaching Professor*
***Jun Li,** *Associate Professor*
***Jessica Liberles,** *Assistant Professor*
***Sparkle Malone,** *Assistant Professor*
Jaime Mayoral, *Assistant Teaching Professor and Laboratory Coordinator*
***Melissa McCartney,** *Assistant Professor*
***Fernando G. Noriega,** *Professor*
***Steven F. Oberbauer,** *Professor*
***Yannis Papastamatiou,** *Assistant Professor*
Jason Pienaar, Assistant Professor*
Thomas R. Pitzer, *Teaching Professor and Laboratory Coordinator*
Adam Roddy, *Assistant Professor*
***Mauricio Rodriguez-Lanetty,** *Associate Professor*
Maria Jose Rodriguez Mora, *Associate Teaching Professor and Director of BA and BS Undergraduate Studies*
Karla Rivera-Caceres, *Assistant Teaching Professor*
***Diego Salazar,** *Assistant Professor*
Rolando Santos Corujo*, Assistant Professor*
Helena Schmidtmayerova, *Associate Teaching Professor*
***Laura Serbus,** *Associate Professor and Director of Graduate Program Studies*
Paul R. Sharp, *Associate Teaching Professor*
Anna Simonsen, *Assistant Professor*
***Philip K. Stoddard,** *Professor*
***Jamie Theobald,** *Associate Professor*
Oscar Valverde-Barrantes*, Assistant Professor*
Meng Wang*, Assistant Teaching Professor*
***Jeffrey D. Wells,** *Associate Professor*
Elizabeth Whitman*, Assistant Teaching Professor*
***Yuying Zhang,** *Associate Professor*

***Holds Dissertation Advisor Status**

Master of Science in Biology

To be admitted into the Master's degree program in Biology, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submission of Graduate Record Exam scores.
3. Two letters of recommendation of the student's academic potential.
4. Be accepted by a faculty sponsor.
5. Receive approval from the Departmental Graduate Committee.
6. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Degree Requirements

The Master of Science in Biology consists of a minimum 36 credits, including a thesis based upon the student's original research. A maximum of six credits of post baccalaureate course work may be transferred from other institutions, subject to the approval of the Graduate Committee.

Required Courses

BSC 6457	Introduction to Biological Research	3
BSC 5931	Thesis Proposal Seminar	1
Workshops and Laboratories[1]		4
BSC 6971	Master's Thesis[2]	6
Electives[3]		22
Quantitative Skills Requirement[4]		

[1] Following graduate committee approval, students may fulfill this requirement with any combination of graduate workshops, graduate laboratories, and graduate techniques courses (minimum of two separate courses).
[2] To be taken after qualifying exam is passed.
[3] These must include at least 16 credits of courses in the Department of Biological Sciences. No more than six credits can be transferred from another graduate program, subject to the approval of the Graduate Committee. At least six credits must be at the 5000- or 6000-level (excluding thesis credits). Credits taken at the 4000-level beyond six, or at lower levels, will not count towards graduation.
[4] Two semesters of graduate courses in quantitative skills (e.g., statistics, mathematics, computer programming), or demonstrated equivalence of such, is required for the Master of Science in Biology.

Graduation Requirements

A grade of 'C' or higher must be obtained in all courses with a cumulative average of 3.0 or higher in the 36 credits, and a thesis must be completed and accepted by the University.

Non-Thesis Track: Requirements

Doctoral candidates in the Biological Sciences Major who have filed the D-2 and D-3 forms that are accepted by the University Graduate School can receive a Master of Science in Biology en route to the PhD with "non-thesis track" appearing in the transcript.

Non-Thesis Track: Graduation Requirements:

A minimum GPA of 3.0 in all Graduate course work is required for the Master's degree.

Doctor of Philosophy in Biology

To be admitted into the Ph.D. program in Biology, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university
2. Have a 3.0 grade point average during the last two years of the undergraduate program or a Master's degree in a relevant discipline;
3. Submission of official Graduate Record Exam (GRE) scores.
4. Be sponsored by a Biology faculty member with Dissertation Advisor Status (see list of graduate faculty with DAS).
5. Arrange to have three letters of recommendation sent to the Biology Graduate Program Director evaluating the applicant's potential for graduate work.
6. Receive approval from the Department Graduate Committee.
7. International graduate students applicants whose native language in not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Degree Requirements

The Ph.D. in Biology is conferred on individuals in recognition of their demonstrated ability to master a specific field of knowledge and to conduct significant independent, original research. A minimum of 75 semester credits of graduate work beyond the baccalaureate are required, including a dissertation based upon the student's original research. A maximum of 36 credits may be transferred from a completed graduate program with the approval of the Advisory Committee.

Required Courses

BSC 7961	Dissertation Proposal Seminar	1
BSC 7982	Dissertation Defense Seminar	1
BSC 5945	Supervised Teaching in Biology	2
Workshops and Laboratories[1]		4
BSC 7980	Ph.D. Dissertation	15
Electives[2]		8
Quantitative Skills Requirements[3]		

Recommended Course

BSC 6457	Introduction to Biological Research	3

[1]Following graduate committee approval, students may fulfill this requirement with any combination of graduate workshops, graduate laboratories, and graduate courses (minimum of two separate courses)
[2]No more than 36 credits may be transferred from a completed graduate program, subject to the approval of the Graduate Committee.
[3]Two semesters of graduate courses in quantitative skills (e.g. statistics, mathematics, computer programming), or demonstrated equivalence of such, is required for the Ph.D. in Biology.

Graduation Requirements

A grade of 'C' or higher must be obtained in all courses with a cumulative average of 3.0 or higher in the 75 credits; two semesters of quantitative skills courses must be completed, and a dissertation completed and accepted by the University.

Combined MS in Forensic Science/PhD in Biology Pathway

The MSFS/PhD in Biology pathway combines the Master of Science in Forensic Science with a PhD in Biology. Student who pursue this degree will be enrolled in a continuous program; however, upon completion of all the requirements of the MSFS program (report option), students will be awarded a MSFS degree as they transition towards their PhD.

MSFS/PhD in Biology Pathway Requirements

For admission into the MSFS/PhD pathway, students must meet the admission criteria of a PhD student with the understanding that they will have an increased class load of 2-3 classes, e.g., Forensic Biology, Forensic Chemistry, and Forensic Analysis, when compared to the normal PhD applicant but will graduate with two degrees. The requirements will be as follows:

1. Hold a Bachelor's degree in a natural science from a relevant university.

2. Have a 3.0 GPA during the last two years of the undergraduate program and submission of official GRE scores.
3. Arrange to have three letters of recommendation sent to the Biology graduate program director evaluating the applicant's potential for graduate work.
4. Be sponsored by a Biology faculty member with Dissertation Advisor Status.
5. Receive approval from the Department Graduate program committee.
6. International graduate student applicants whose native language is not English are required to submit a score for Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IETLS). A score of 80 on the iBT TOEFL or 6.5 overall on the IETLS is required.

As these candidates will be dually enrolled in two graduate degree programs, candidates must complete minimum of 32 credit hours towards their MSFS degree with a grade of 'C' or higher and a cumulative GPA of 3.0. The MSFS report option must be completed and accepted by the University before full transition towards the PhD. Candidates must also complete a total of 75 credit hours toward the PhD with the allowance for credits transferred from the completed MSFS degree. The student will be able to earn both degrees in a similar time frame that it would take to obtain either degree if pursued consecutively.

Students will be required to select a Master's defense committee while pursuing the MSFS as well as a PhD dissertation committee. This committee may or may not be comprised of the same members as those selected for the Master's program. The Master's proposal should be presented after the second semester of admission and the PhD dissertation defense should be presented after the fourth semester after admission.

Required Courses

BSC 6457	Introduction to Biological Research	3
BSC 5931	Thesis Proposal Seminar	1
BSC 7961	Dissertation Proposal Seminar	1
BSC 5975	Thesis Defense Seminar	1
BSC 7982	Dissertation Defense Seminar	1
BSC 5406	Forensic Biology	3
CHS 5535	Forensic Analysis	3
CHS 5542	Forensic Chemistry	3
PCB 5665	Human Genetics	3
PCB 5685	Population Genetics	3

Elective Courses

PCB 6025	Molecular and Cellular Biology I	3
MCB 5116	Microbial Diversity	3
BSC 5459	Advanced Bioinformatics for Biologists	3
BOT 5852	Medical Botany	3
BOT 5727	Plant Genetics	3
PCB 5616	Applied Phylogenetics	3
STA 5207	Topics in Design of Experiments	3
STA 5507	Nonparametric Methods	3

Labs and Workshops

BSC 6925	Workshop: Non-Human DNA Profiling and Analysis	1
BSC 6926	Workshop in Biology: DNA Instrumentation	1
BSC 5935	Workshop in Biology: Advanced DNA Typing	1-2

Research

BSC 6971	Master's Thesis	6
BSC 7980	Ph.D. Dissertation	24

Course Descriptions

Definition of Prefixes

BCH-Biochemistry; BOT-Botany; BSC-Biological Sciences; MCB-Microbiology; OCB-Biological Oceanography; PCB-Process Biology (Cell/Molecular/ Ecology/Genetics/Physiology); ZOO-Zoology

BCH 5040 Introduction to Biochemical Research (3). Analysis of biochemical data and experimental design. Prerequisite: Graduate standing.

BCH 5134C Workshop in Chromatography Techniques (1). Workshop covers the theory and practice of chromatographic techniques to separate complex mixtures of biomolecules, including absorption, ion exchange, size exclusion and affinity chromatography. Prerequisite: Graduate status.

BCH 5411C Techniques in Molecular Evolution Research (5). Ribosomal genes from related organisms are amplified by polymerase chain reaction (PCR) and sequenced. Phylogenetic maps are made by computer from sequence data. Students may use material from their own research. Prerequisites: BCH 3033 and BCH 3033L, PCB 4524 and PCB 4524L or Graduate status.

BCH 6130C Workshop in DNA Synthesis and Amplifications (1). Workshop in the chemical synthesis of DNA and the amplification of specific genes by the polymerase chain reaction (PCR). Students may synthesize DNA oligonucleotides for use in their own research. Prerequisites: Graduate status and Permission of the instructor.

BCH 6132C Workshop in Electrophoresis (1). Workshop in the application of electrophoresis to biochemical and genetic experimentation. Students may use material from their own research in the laboratory section. Prerequisites: Graduate status and permission of the instructor.

BCH 6133C Workshop in DNA Sequencing (1). Workshop in the manual and automated sequencing of DNA. Students may sequence DNA from their own research. Prerequisites: Graduate status and permission of the instructor.

BCH 6507C Workshop in Radiometry and Spectrophotometry (1). Interaction of light with matter (absorption, fluorescence, light scattering) and emission (chemi-and bio-luminescence); analysis of spectra and enzyme kinetics. Prerequisites: PCB 3043 or permission of the Instructor.

BOT 5186C Advanced Marine Botany (3-4). Study of the taxonomy, biology, and ecology of seaweeds, seagrasses, and mangroves including a student research project. Prerequisites: BSC 2011 or equivalent.

BOT 5159C Florida Plant Communities (3). Two-week field trip to many diverse plant communities of the state. Ecological and environmental factors influencing plant distribution will be examined, contrasting vegetation among sites. Prerequisites: Ecology PCB 3043 or Permission of the instructor.

BOT 5304C Workshop in Plant Morphology (2). Techniques to analyze plant form and experience with the diversity plant morphology; field work using the collections at Fairchild Tropical Gardens. Prerequisites: 2 botany courses or permission of the instructor.

BOT 5515 Biochemistry of Plant Natural Products (3). Aspects of primary and secondary plant metabolism will be covered including bio-synthesis and degradation of natural products as well as their biological/ pharmacological activity. Prerequisites: BCH 3033 or CHM 4304.

BOT 5575 Photobiology (3). BOT 5575L Photobiology Lab (1). The study of basic photochemical mechanisms as they occur in molecular biological processes such as photosynthesis, plant growth, animal vision, bioluminescence, and radiation damage. Prerequisite: Permission of the instructor.

BOT 5602 The Functional Ecology of Tropical Plants (3). BOT 5602L The Functional Ecology of Tropical Plants Lab (1). The relationship of climate and soils to the distribution and function of the major plant groups of the tropical regions. Prerequisites: Two courses in botany or permission of the instructor.

BOT 5605 Plant Ecology (3) BOT 5605L Plant Ecology Laboratory (1). In-depth study of plant ecology at three levels: individual, population, and community. Laboratory and field exercises will examine lecture topics. Prerequisites: PCB 3043 or permission of the instructor. Corequisite: Concurrent registration in lecture and lab courses.

BOT 5615 Workshop: Seed Conservation (1). Covers practical issues of seed conservation of tropical plants: longevity curves, seed germination protocols and seed conservation procedures. Prerequisites: Graduate students or permission of instructor.

BOT 5647 Ecology of Marine Vascular Plants (3). Biology and ecology of seagrasses and mangroves, with an emphasis on South Florida and Caribbean species. Physiological ecology, population and community ecology, and ecosystem processes. Prerequisite: Permission of the instructor.

BOT 5648 Workshop on Aquatic Plants (1). Biology and identification of aquatic plants. Prerequisites: Graduate status or permission of the instructor.

BOT 5704 Botanical Terminology, Latin and Nomenclature (2). Course is divided into 3 parts: 1) Botanical Latin and its use; 2) Plant description terminology, and current descriptive standards; and 3) Botanical nomenclature, the ICBN, Phylocode, and others. Prerequisites: BOT 5725C or BSC 5606, or approval of the Advisor.

BOT 5725C Plant Systematics (3). Theory and methods of classification of vascular plants using phylogenetic principles. Covers the integration of morphological and molecular characters. Prerequisites: Graduate students or permission of instructor.

BOT 5727 Plant Genetics (3). Topics related to higher plants, including polyploid inheritance, self-incompatibility, cytoplasmic inheritance, mutable alleles, complex loci, genome analysis, recombination and mutagenesis. Prerequisites: BSC 2010 and BSC 2011 and PCB 3063.

BOT 5728 Plant Molecular Systematics (2). DNA markers for phylogenetic analysis of vascular plants, including description of laboratory methods, computerized analytical techniques and evolutionary interpretation. Prerequisites: Graduate status or permission of instructor.

BOT 5728L Plant Molecular Systematics Laboratory (2). DNA markers for phylogenetic analysis of vascular plants, including description of laboratory methods, computerized analytical techniques and evolutionary interpretation. Prerequisites: Graduate status or permission of instructor.

BOT 5816 Ethnobotany (3). Review the use and management of plants by indigenous people. Discuss emerging theories in ethnobotany, examine the role of ethnobotany in conservation and resource utilization. Prerequisites: BOT 3810, BOT 3663, or ANT 3403, or permission of the instructor.

BOT 5816L Ethnobotany Workshop (1). Field methods in the study of plant use by traditional and modern societies. Examines botanical documentation, ethnological description and experimental design. Prerequisite: Permission of the instructor.

BOT 5817 Field Ethnobotany (1-4). A 4-week field course that introduces students to tropical vegetation and its use by traditional cultures. Topics include tropical botany, diversity, ecology, and the relationship between plants and people. Course may be repeated. Prerequisites: BOT 5816 and BOT 5816L or permission of instructor.

BOT 5852 Medical Botany (3). An examination of medicinal plants including the biology, chemistry, and pharmacology of botanical remedies, and their effects on human health. Prerequisites: BOT 3810 or BOT 5816 or permission of instructor.

BOT 5924 Workshop in Tropical Plant Families (3). An introduction to important spermatophyte families, including systematics, ecology, and conservation. Includes laboratory and field experience. Prerequisite: Permission of the instructor.

BOT 5925 Workshop in the Biology of Southern Florida's Native Trees (3). Distribution, floristic relationships, morphology, reproductive biology, taxonomy, and conservation of trees native to southern Florida. Prerequisites: BOT 3154, BOT 3663, or permission of the instructor.

BOT 5928 Workshop on Grasses and Sedges of Southern Florida (1). The systematics, ecology, and identification of South Florida grasses and sedges. Prerequisites: Graduate status or permission of the instructor.

BOT 6275 Plant Breeding Systems (3). Ecology, evolution, genetics and development of plant breeding systems. Prerequisite: Permission of the instructor.

BOT 6585C Plant Structure and Function (4). A quantitative assessment of plant architecture, morphology and anatomy in relationship to physiology, including the measurement of water relations, energy and gas exchange. Prerequisites: Permission of the instructor and graduate status.

BOT 6724 Readings in Pollination Biology (1). Current literature on pollination, including natural history, theory, experimental studies, and reviews. Prerequisites: Graduate status or permission of the instructor.

BOT 6818 Readings in Ethnobotany (1). An examination of 3 or 4 recent books in the ethnobotany or related disciplines, especially those dealing with theoretical issues. Prerequisites: BOT 5816, Graduate Standing, or permission of instructor.

BOT 6901 Readings in Plant Mating Systems (1). Current literature on theory, biology, and evolution of plant mating systems. Prerequisites: Graduate standing or permission of the instructor.

BOT 6920C Workshop in Field Techniques in Natural History of Insect/Plant Interactions (1). A workshop in the techniques for collecting and preserving plants and insects for biological and taxonomic research.

BOT 6921C Workshop in Field Techniques in Pollination Biology (1). Techniques to do a thorough study of the pollination biology of any flowering plant; basic methods and simple instruments for field observations, measurements and manipulations. Prerequisite: Graduate status.

BOT 6923 Workshop: Techniques in Plant Reproductive Biology (1). Workshop in techniques for research on pollination and fertilization in plants. Histological and microscopic examination emphasized. Prerequisites: Graduate status and permission of the instructor.

BOT 6926C Workshop in Plant Nutrient Analysis (1). Field and laboratory methods used in the assessment of nutrient availability for primary producers. Prerequisite: Permission of the instructor.

BOT 6928 Workshop on Plant Gas Exchange and Fluorescence (1). Field and laboratory methods used for measurement of plant photosynthetic production and transportation. Prerequisite: Permission of the instructor.

BOT 6935 Advanced Topics in Botany (3). An intensive study of particular plant topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate status.

BOT 6936 Readings in Plant/Animal Interactions (1). Current literature on coevolution of plants and animals, theory, experimental studies, and reviews. Prerequisites: Graduate standing or permission of the instructor.

BSC 5302 Ecosystems of the Past (3). Analysis of local to global change in environments through time using faunal distributions, biodiversity, biogeography, physical and chemical properties of sediments, and stable isotopes.

BSC 5405C Environmental Instrumentation (3). Theory and techniques for measurement of environmental parameters of interest to field biologist. Prerequisite: Permission of the instructor.

BSC 5406 Forensic Biology (3). Forensic applications of molecular biology including PCR, STR techniques and other laboratory methods and data interpretation. Prerequisite: Graduate status.

BSC 5446 Advanced Functional Genomics and Proteomics (3). Analysis of Modern Strategies to understand fundamental biological aspects using advanced genomics and proteomic approaches. Prerequisites: PCB 3063 or equivalent.

BSC 5459 Advanced Bioinformatics for Biologists (3). Introduction to bioinformatic resources/methods for biology graduate students, accessing, searching, retrieving, and analyzing data, including an in-depth research project. Prerequisites: BSC 2010, BSC 2011, PCB 3063.

BSC 5485 Forensic and Veterinary Medicolegal Investigations (3). This course will introduce the graduate student to the basics of the veterinary medicolegal investigation, the role of the veterinarian and forensic analysts to animal cruelty investigation.

BSC 5486 Advanced Topics in Veterinary Medicolegal Investigations (3). Course will build upon the student's knowledge of the veterinary medicolegal investigation, including the role of veterinarian, forensic investigators, preservation and collection of evidence. Prerequisite: BSC 5485

BSC 5487 Advanced Forensic and Legal Aspects of Animal Cruelty (3). Topics will include types of animal crimes and their legal definitions; the roles and responsibilities of forensic and crime scene analysts, veterinarians, prosecutors and forensic techniques.

BSC 5926 Graduate Bioresource Workshop (1). This workshop is designed to introduce Biology graduate students to the various resources available for graduate teaching and research. Prerequisite: Graduate status.

BSC 5927 Workshop: R Programming for Biologists (2). Statistical methods and biological/ecological applications using R programming language. Prerequisites: (Graduate standing in Biology) or (STA 3111 and STA 3112).

BSC 5928 Workshop: Vertebrate Animal Research (1). Reviews the ethical, legal and practical guidelines for conducting research with live vertebrate animals. Required for students capturing, handling or collecting vertebrate animals in the course of research or teaching. Prerequisites: Graduate status or permission of the instructor.

BSC 5929 Workshop: Paleoecology of South Florida (2). Sampling, preparation, and identification of diatoms and foraminifera from a freshwater to marine transect, and application of ecology to interpreting past ecosystems.

BSC 5931 Thesis Proposal Seminar (1). Presentation of thesis proposal seminar. Permission of major professor required.

BSC 5933 Current Topics in Tropical Biology (3). An intensive study of particular tropical biology topics not otherwise offered in the curriculum. Prerequisite: Permission of the instructor.

BSC 5935 Topics in Biology (1-3). An intensive study of a particular topic or limited number of topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisites: Senior or graduate status.

BSC 5936 Glaser Seminar: The Biology of Tomorrow (1). A series of lectures by an invited, internationally

recognized authority in biological topics of current and future concern.

BSC 5945 Supervised Teaching in Biology (1-2). Teaching in a biological discipline, under the supervision of departmental faculty. Prerequisite: Graduate status.

BSC 5975 Thesis Defense Seminar (1). Presentation of thesis defense seminar. Permission of major professor required. Prerequisite: Thesis proposal seminar.

BSC 6314 Workshop: DNA Instrumentation and Analysis (1). Introduction to instrumentation and analysis software used for DNA profiling. Permission of the instructor required. Prerequisite: Permission of the instructor.

BSC 6415 Animal Cells in Culture (3). Biology of animal cells cultured in semi-synthetic media: cell nutrition growth, cell cycle analysis, cellular transformation and differentiation, heterokaryons and somatic cell genetics. Prerequisite: Permission of the instructor.

BSC 6456C Microcomputer Use in Biology (1). Introduction to microcomputer operating environments, the utility of microcomputers in biology, and computer interfacing to biological instrumentation. Prerequisite: Permission of the instructor.

BSC 6457 Introduction to Biological Research (3). Analysis of existing biological data and experimental design. Prerequisite: Graduate status.

BSC 6913 Student Research Lab (1-12). Independent laboratory study in a project or projects of the student's choice. Registration by consultation with instructor. May be repeated for additional credit.

BSC 6920 Workshop: Small Research Vessel Operations (1). A workshop covering the use of small vessels (<26 ft.) in conducting on-water research. The course includes lectures and hands-on training of trailering, vessel operations, and research methods. Prerequisite: Permission of instructor.

BSC 6925C Workshop: Non-Human DNA Profiling and Analysis (1). Current techniques in non-human DNA profiling using molecular markers. Prerequisite: Permission of the instructor.

BSC 6926 Workshop in Biology (1-2). A short intensive treatment of a specialized research topic or technique. Prerequisite: Permission of the instructor.

BSC 6936 Topics in Biology (1-3). An intensive study of a particular topic or limited number of topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisites: Senior or graduate status.

BSC 6946 Graduate Biology Internship (1-12). Non-thesis / non-dissertation internship in a laboratory or program outside FIU working under the supervision of a host scientist and an FIU faculty member. Prerequisite: Admission to candidacy.

BSC 6950 Writing, Publishing, and Communicating Peer-Reviewed Papers in Biological Sciences (3). This course trains early career scientists in the skills of mastering Biological Science writing, peer review, and publishing.

BSC 6971 Master's Thesis (1-12). Completion of thesis. Prerequisite: Permission of Major professor.

BSC 7961 Dissertation Proposal Seminar (1). Presentation of doctoral dissertation proposal seminar. Prerequisite: Permission of Major Professor required.

BSC 7980 Ph.D. Dissertation (1-12). Completion of dissertation. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

BSC 7982 Dissertation Defense Seminar (1). Presentation of doctoral dissertation defense seminar. Permission of Major Professor required. Prerequisite: Dissertation Proposal Seminar.

MCB 5116 Microbial Diversity (3). MCB 5116L Microbial Diversity Laboratory (1). Analysis of metabolic and morphological diversity in bacteria in the context of bacterial systematics. Prerequisites: MCB 3020 and MCB 3020L and an additional course in microbiology or biochemistry. Corequisite: Concurrent registration of both lecture and lab courses.

MCB 5205 Advanced Microbial Pathogenicity (3). Overview of microbial pathogenicity, including interactions with hosts, evolution of pathogens, virulence factors, toxins, antibiotics, and case studies of specific pathogens. Prerequisites: MCB 3020 or permission of the instructor.

MCB 5315C Workshop: Prokaryotic Cloning (2). Description of molecular genetic methods for manipulation of prokaryotic DNA. Prerequisites: PCB 3063; BCH 3033 or CHM 4304; or permission of the instructor.

MCB 5405 Biology of Photosynthetic Bacteria (3). Study of the physiology and ecology of photosynthetic bacteria, including blue-green algae (cyanobacteria), purple and green bacteria, and halobacteria.

MCB 5412 Advanced Microbial Physiology (3). Overview of microbial metabolic diversity, including prokaryotic metabolic pathways, stress responses, cell signaling, and metabolic regulation. Prerequisite: Permission of the instructor.

MCB 5453L Workshop: Prokaryotic Cell Signaling (1). Covers chemical signals used by prokaryotes for cell-to cell communications. Prerequisites: MCB 3020 or permission of instructor.

MCB 5605 Microbial Ecology (3). Principles and applications of microbial interactions with the environment. Current research areas are emphasized. Prerequisite: Graduate level standing.

MCB 6445 Microbial Bioluminescence (3). Molecular mechanisms, physiology, genetics and ecology of bioluminescence in microorganisms, particularly bacteria. Prerequisite: Permission of the instructor.

MCB 6635 Marine Microbiology (3). MCB 6635L Marine Microbiology Lab (1). Physiological-ecological study of the distribution and biology of marine bacteria; diseases of marine animals; bacterial role in oceanic mineral cycling. Prerequisites: MCB 3020 and MCB 3020L and BCH 3033 and BCH 3033L or MCB 4404 and MCB 4404L.

MCB 6920 Luminescence Workshop (2). Bioluminescence and chemiluminescent theory and methods applied to luminous bacteria and molecular biology. Prerequisite: Permission of the instructor.

MCB 6935 Advanced Topics in Microbiology (3). An intensive study of particular microbiological topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate status.

OCB 5006 Advanced Biological Oceanography at Sea I (3). An in-depth overview and critical discussion of current methods employed in biological oceanography including design of and working on research ships and planning of research cruises. Prerequisite: Permission of the instructor.

OCB 5007C Advanced Biological Oceanography at Sea II (4). A hands-on experience in research at sea involving cruise planning, participation in an offshore cruise on a research vessel, and subsequent sample analysis, data evaluation and research report. Prerequisites: OCB 5006 or permission of the instructor.

OCB 5575L Workshop: Aquatic Flow Cytometry (1). A practical introduction to theories and applications of flow cytometry in the analyses of aquatic microorganisms (bacteria, phytoplankton) and their physiology. Prerequisite: Permission of the instructor.

OCB 5634 Marine Ecology (3). OCB 5634L Marine Ecology Lab (1). Review processes determining species distribution and abundance in marine ecosystems. Energy flow and trophic relationships examined. Prerequisite: PCB 3043. Corequisite: Concurrent registration of lecture with lab course.

OCB 5636 Advanced Marine Microbial Ecology (3). Diversity, ecology and physiology of marine viruses, bacteria and protozoa, their role in marine food webs and the biogeochemical cycling of carbon and nutrients, and the significance of microbial food webs for marine productivity. Prerequisites: BSC 2010, BSC 2011, OCB 3043, or graduate standing.

OCB 5670L Techniques in Biological Oceanography (1). A laboratory course designed to acquaint the student with biological sampling techniques at sea. Shipboard experience will be required as part of the course. Prerequisites: Previous course in marine biology and permission of the instructor.

OCB 5715 Advanced Fisheries Science (3). Theory and techniques of fisheries science comprising recruitment, growth, migration, population dynamics, modeling and measurement techniques. Prerequisite: Graduate standing.

OCB 6716 Fisheries Population Dynamics (3). Application of statistical techniques and the different classes of fisheries population dynamics models used in fish stock assessment. Prerequisites: OCB 4711 or OCB 5715.

OCB 6927C Workshop in Scientific Diving (2). Covers all aspects of conducting safe underwater research, including theoretical and practical aspects of diving, diving equipment, and scientific techniques. Requires original research. Prerequisites: Open water diving certification, permission of the instructor, FIU Diving Medical clearance, pass standardized swim test, at least 18 years old.

PCB 5025L Molecular Biology Techniques Laboratory (3). Covers DNA and RNA extraction, digestion, electrophoresis, Southern analysis, RFLP analysis, PCR amplification, cloning and automated sequencing. Prerequisites: Graduate status or permission of the instructor.

PCB 5046 Advanced Plant Conservation Biology (3). Survey of the causes and consequences of anthropogenic disturbances on plant diversity at different spatial scales, including critical evaluation of strategies to mitigate these impacts. Prerequisites: PCB 3043 or graduate status.

PCB 5184 Workshop in Microtechnique (1). Laboratory techniques required for preparation of tissues for light microscopy/histological study. Prerequisite: Graduate status.

PCB 5215 Workshop in Histo—and Immunocyto—Chemistry (1). Laboratory techniques for preparation of paraffin-embedded and frozen sections; selected procedures to demonstrate the fundamentals of histochemical and immunocytochemical labeling methods. Prerequisite: Graduate status or permission of the instructor.

PCB 5235 Current Topics in Comparative Immunology (1). A weekly seminar/discussion course consisting of research presentations by students, faculty and visiting scientists in the area of comparative immunology. It is recommended for students with a research interest in the comparative study of mammalian and nonmammalian species or using alternative animal models. Prerequisite: Permission of the instructor.

PCB 5238 Marine Comparative Immunology Workshop (1). A workshop at the Keys Marine Lab to present general and unique research methodologies associated with the immunology of marine animals. Prerequisite: Permission of the instructor.

PCB 5239 Immunophysiology (3). Physiological and endocrine regulation of the vertebrate immune system. Prerequisite: PCB 4233.

PCB 5259 Topics in Developmental Biology (3). Molecular and cellular mechanisms in the development of plants and animals. Prerequisite: Permission of the instructor.

PCB 5307 Limnology (3). PCB 5307L Limnology Lab (1). Chemical and physical properties of standing and flowing freshwater systems; ecophysiology and interactions of the fresh water flora and fauna in relation to abiotic factors; oligotrophic to eutrophic conditions.

PCB 5327 Coastal Ecosystems and Modeling (3). Basics of ecology for coastal and wetland ecosystems. The theory and mechanisms of simulation modeling. Hands-on creation and application of computer models in ecological research. Prerequisites: PCB 3043 and MAC 2311 or permission of the instructor.

PCB 5328 Spatial and Landscape Ecology (3). Ecological processes with spatial components, including neighborhood interactions, foraging, metapopulations, infectious diseases, invasive species, and habitat associations. Prerequisite: PCB 5423. Corequisites: PCB 5443; MAC 2311.

PCB 5356L Tropical Ecology Field Lab (3). Field course in Costa Rica with fieldwork in two or more diverse habitats (rainforest, and dry forest). Emphasis on diversity

and interactions between species. Visits to selected sites of deforestation, conservation and restoration.

PCB 5376 Animal Physiological Ecology (3). PCB 5376L Animal Physiological Ecology Laboratory (1). Evolution-oriented approach to physiological adaptations of animals living in diverse environments. Considers the inter relationship between behavior, energetics, and integrative regulation of metabolism. Prerequisites: PCB 3043; BCH 3033 or CHM 4304.

PCB 5405 Biochemical Ecology (3). Principles of chemical communication between diverse organisms and the importance of a variety of allelochemicals in community structure. Prerequisite: Permission of the instructor.

PCB 5407 Workshop: Microelectrodes in Microbial Ecology (1). Use of microelectrodes to measure chemical micro-environments and biological processes in natural samples. Hands-on experience with O2 and pH electrodes. Prerequisite: Permission of the instructor.

PCB 5415 Advanced Behavioral Ecology (3). In-depth investigation of the adaptive significance of behavior. Synthesis and discussion of literature and theory pertaining to the strategies and tactics organisms use to survive and reproduce. Prerequisites: Graduate status or permission of the instructor.

PCB 5418C Advanced Marine Protected Areas (4). Study of theory and methods for the design and management of Marine Protected Areas including a research project. Prerequisites: BSC 2010 and BSC 2011.

PCB 5423 Advanced Ecology: Populations and Communities (3). Advanced analysis of population and community ecology. Prerequisites: PCB 3043 or permission of the instructor or graduate status.

PCB 5443 Advanced Ecology: Communities and Ecosystems (3). Advanced analysis of ecological principles pertaining to communities, ecosystems, and landscapes, with special emphasis on the South Florida and Caribbean region. Prerequisites: PCB 3043 or permission of the instructor or graduate status. [A]

PCB 5596 Workshop: In Situ Hybridization (1). Analysis of gene expression by in situ hybridization techniques using whole mount and cryosectioned tissues. Prerequisites: Graduate status or permission of the instructor.

PCB 5615 Molecular and Organismal Evolution (3). The evolutionary relationships among nucleotides and proteins as well as the processes which yield these relationships. The possible molecular events leading to speciation. Prerequisite: PCB 3063.

PCB 5616 Applied Phylogenetics (3). Methods of phylogenetic analysis with a focus on pragmatic applications to ecological and evolutionary studies. Hands-on experience with current computer programs for phylogenetic analysis. Prerequisites: Graduate status or permission of the instructor.

PCB 5665 Human Genetics (3). PCB 5665L Human Genetics Lab (2). Principles and techniques in the analysis of humans and primates. Prerequisites: PCB 3063 and PCB 3063L, or permission of the instructor. Corequisite: Concurrent registration of lecture with lab course.

PCB 5677 Evolution and Development (3). The models and evidence for the interaction of development and evolution, using both plant and animal systems. Prerequisite: Permission of the instructor.

PCB 5685 Population Genetics (3). Advanced analysis of gene and genotype frequencies in theoretical populations and analysis of real data. Linkage equilibrium, drift, migration and selection are a few of the topics covered. Prerequisite: PCB 3063.

PCB 5686 Population Biology (3). PCB 5686L Population Biology Lab (1). Intrinsic properties of natural and theoretical populations and their dynamics and interactions, and responses to disturbance. Includes field problems and computer exercises. Prerequisites: PCB 3063 and PCB 4674, or permission of the instructor.

PCB 5687 Evolutionary Ecology (3). PCB 5687L Evolutionary Ecology Lab (1). Adaptations and interactions of plants and animals in natural and disturbed habitats. Prerequisite: PCB 3043.

PCB 5725 Membrane Signal Transduction (3). Hormones and neurotransmitters as extracellular messengers. Membrane receptors and mechanisms of signal transduction: membrane channels and enzymes, direct linkage and G-protein linkage. Second messengers. Prerequisites: BCH 3033 or CHM 4304.

PCB 5786 Membrane Physiology (3). Chemical and physical properties of the plasma membrane, its biosynthesis and functions in transport and signal transduction. Prerequisites: PHY 2048, PHY 2049, BCH 3033.

PCB 5835 Neurophysiology (3). PCB 5835L Neurophysiology (1). Comparative neurophysiology; physicochemical mechanisms of resting and action potentials; synaptic transmission; neural coding and integration; sensory-motor function and neurophysiological basis of behavior. Prerequisites: BCH 3033 and MAC 2311.

PCB 6025 Molecular and Cellular Biology I (3). Protein structure, catalysis, kinetics, and molecular conformation, intermolecular forces; Prokaryotic recombination, transcription and translation, gene regulation and genome organization. Prerequisite: Graduate status.

PCB 6027 Molecular and Cellular Biology II (3). Eukaryotic recombination, transcription, translation, gene regulation and genome organization; Cellular components, cell structure, cell division, cell signaling, development, immunology and cancer. Prerequisite: Graduate status.

PCB 6176C Biological Electron Microscopy (5). Principles and techniques of transmission and scanning electron microscopy as applied to biological materials. Lecture-laboratory combination, enrollment limited. Prerequisite: Permission of the instructor.

PCB 6236 Comparative Immunology (3). An analysis of the immune systems and mechanisms of invertebrate and vertebrate animals. Prerequisite: Permission of the instructor.

PCB 6237 Immunogenetics (3). The impact of classical and molecular genetic analyses on our understanding of

the immune response. Prerequisites: PCB 4233 and PCB 3063; or permission of the instructor.

PCB 6318 Readings in Marine Ecosystems Ecology (1). Analysis of current literature on theory, data and case studies of marine ecosystem ecology. Prerequisites: Graduate status or permission of the instructor.

PCB 6417 Workshop: Modeling in Behavioral Ecology (1). Workshop on modeling techniques used to investigate behavioral ecological questions. Development of models to generate testable predictions in behavioral ecology. Prerequisite: Permission of the instructor.

PCB 6468 Design and Analysis of Ecological Studies (3). A course for graduate students in the ecological sciences that focuses on the proper design, statistical methods, and nuances of both as applied to ecological research.

PCB 6526 Advanced Molecular Biology (3). Molecular genetics, controlling mechanisms, recombinant DNA, gene splicing and gene vector construction of viral, bacterial, plant and animal systems. Prerequisite: Permission of the instructor.

PCB 6617 Advanced Phylogenetics (3). Current issues and methods in phylogenetics for advanced students. Prerequisites: PCB 5616 or permission of the instructor.

PCB 6618C Workshop: Parallel Bayesian Phylogenetics (1). Workshop in the analysis of data to infer evolutionary relationships using Bayesian methods implemented in parallel on a computer cluster. Prerequisite: Permission of the instructor.

PCB 6675 Evolutionary Biology and Ecology in the Antilles (3). Introduction to the main ecological features of the Antilles and to the main evolutionary mechanisms behind the unique biodiversity of these islands. Prerequisite: Graduate status.

PCB 6933 Trends in Neurobiology (2). Critical analyses and discussions of selected research articles of current interests. Seminar format. Prerequisite: Permission of the instructor.

PCB 6935 Advanced Topics in Genetics (3). An intensive study of particular genetical topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate status.

PCB 7235 Reproductive Immunology (3). Molecular and cellular interactions in early development, ontogenetics, and mother and fetus. Prerequisite: Permission of the instructor.

PCB 7689 Advanced Topics in Population and Evolutionary Genetics (3). Comparison of the synthetic and mutational drift hypotheses; relationships between molecular and phenotypic evolutionary rates and the phenotypic effects of various forms of mutation. Prerequisite: Permission of the instructor.

ZOO 5265 Biology of Crustaceans (3). ZOO 5265L Biology of Crustaceans Laboratory (1). Morphology, physiology, systematics and evolution in crustaceans.

ZOO 5371 Clinical Anatomy of the Trunk and Limbs (3). ZOO 5371L Clinical Anatomy of the Trunk and Limbs Lab (1). A detailed analysis of the anatomical foundations of kinesiology and physical rehabilitation. Special emphasis will be placed on the functional anatomy of the trunk, pectoral and pelvic limbs with clinical correlations to the major disorders commonly treated by physical and occupational therapists. Prerequisites: ZOO 3731 or ZOO 4733. Corequisite: ZOO 5371L.

ZOO 5376 Animal Design and Movement (4). Basic biomechanical and behavioral theories of how animals feed and move. Prerequisites: BSC 2010, and BSC 2011, PHY 2053 and PHY 2054. [D]

ZOO 5424 Herpetology (3). ZOO 5424L Herpetology Laboratory (1). Biology of amphibians and reptiles from a systematic perspective. The three orders of living amphibians and the six living orders of reptiles are covered in detail. Prerequisites: BSC 2010 and BSC 2011, PCB 3043, or permission of the instructor. Corequisite: Concurrent registration of lecture with lab course.

ZOO 5456 Ichthyology (3). ZOO 5456L Ichthyology Lab (1). Systematics, structure, function, ecology, and evolution of fishes. Prerequisites: BSC 2010, BSC 2011 and PCB 3043. Corequisite: Concurrent registration of lecture with lab course.

ZOO 5732 Advanced Anatomy Demonstration (1-4). Dissection and demonstration of the human body with the emphasis on structure and function. May be repeated to a maximum of eight credits. Prerequisites: ZOO 3733 and ZOO 3733L, or permission of the instructor.

ZOO 5745 Advanced Neuroanatomy (3). In-depth knowledge of the embryonic development, structure, and function of the human nervous system with a great deal of clinical consideration. Prerequisites: ZOO 4743 or permission of the instructor.

ZOO 5746 Comparative Neurobiology (4). Structure and function of neural systems at many levels including biophysical and cellular mechanisms, molecular processes, neural circuits, development, and anatomy. Prerequisites: BSC 2010 and BSC 2011, CHM 1045 and CHM 1046 and PHY 2048; graduate standing or permission of the instructor.

ZOO 5785 Advanced Neurobiology (3). An in depth treatment of the nervous system covering molecular and cellular function, sensory and motor systems, and the neural basis of behavior. Prerequisite: Graduate standing.

ZOO 5895 Zoo Conservation Biology (1). Zoo Conservation Biology is a hands-on workshop that examines of the role of zoos in conservation science, conservation action, and conservation education. Prerequisite: Permission of Instructor

ZOO 6423 Workshop on Reptile and Amphibian Sampling (1). Biology and sampling methods for reptiles and amphibians. Prerequisite: Graduate status.

ZOO 6782 Advanced Sensory Systems in Neurobiology (3). A comparative overview of sensory systems for graduate students, covering environmental stimuli, physical transduction, neural processing, and behavioral responses. Prerequisite: ZOO 5785 or permission of the instructor.

ZOO 6935 Advanced Topics in Zoology (3). An intensive study of particular topics not otherwise offered in the curriculum. May be repeated for credit with different subject content. Prerequisite: Graduate status.

Creative Writing

Ana Luszczynska, *Associate Professor and Chairperson*
Les Standiford, *Professor and Director, Creative Writing*
Richard Blanco, *Associate Professor*
Lynne Barrett, *Professor*
Debra Dean, *Professor*
John Dufresne, *Professor*
Denise Duhamel, *Professor*
Campbell McGrath, *Professor*
Ana Menendez, *Associate Professor*
Julie Wade, *Associate Professor*

Master of Fine Arts in Creative Writing

The Master of Fine Arts in Creative Writing is the terminal degree for the practicing writer, designed to qualify the recipient to teach creative writing on the collegiate and university level. The program is housed at the Biscayne Bay Campus. Writers enjoy the opportunity for editorial experience with Gulf Stream magazine, the annual FIU literary awards competition, the annual FIU Writers Workshop, the Miami Book Fair, and the Writers on the Bay Series, which has included residencies by such writers as Richard Ford, Robert Pinsky, Isabel Allende, Tim O'Brien, John Wideman, Michael Ondaatje, Pat Conroy, Luisa Valenzuela, Scott Turow, and Amy Tan. Such major writers as Maxine Kumin, James Jones, Pete Hamill and George Garrett have served on the regular faculty.

Admission Requirement

Applicants must have a baccalaureate degree with a 3.0 GPA, must submit official GRE scores, and must have completed a minimum of nine semester hours of undergraduate work in creative writing. However, admission is based primarily on the strength of the applicant's submitted writing sample. Deadline is the second Wednesday in January.

Degree Requirement

Forty eight semester hours are required in studio/academic curriculum, with a minimum in each area as follows:

Literature	15
Writing Workshop (both poetry and fiction required)	18
Form and Theory	3
Thesis	6

There is no foreign language requirement. Graduate workshops include short fiction, the novel, memoir, screenwriting, creative non-fiction, and poetry. The program places emphasis on the preparation and completion of a book-length creative thesis of publishable quality. Candidates must pass a final defense/examination.

Fellowships, teaching assistantships, and tuition remission scholarships are available on a competitive basis.

Course Descriptions

Definition of Prefixes

CRW-Creative Writing; ENG-English.

CRW 5130 Advanced Fiction Workshop (3). Practice in the techniques and analysis of fiction through the reading, discussion, and revision of student manuscripts in a workshop setting. May be repeated. Prerequisite: 9 hours undergraduate CRW course work.

CRW 5331 Advanced Poetry Workshop (3). Practice in the techniques and analysis of poetry through the reading, discussion, and revision of student manuscripts in a workshop setting. May be repeated. Prerequisite: 9 hours undergraduate CRW course work.

CRW 5620 Advanced Screenwriting Workshop (3). Practice in the techniques and analysis of screen-writing through the reading, discussion, and revision of student manuscripts in a workshop setting. May be repeated. Prerequisite: 9 hours undergraduate CRW course work.

CRW 5934 Special Topics in Creative Writing (1-5). A course designed to give students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated. Prerequisites: CRW 2001 and three hours of CRW on the 3000/4000 level.

CRW 5935 Special Topics in Creative Writing (1-5). Gives students an opportunity to pursue special studies in aspects of creative writing not otherwise offered. May be repeated. Prerequisites: CRW 2001 and three hours of CRW on the 3000/4000 level.

CRW 5940 Advanced Independent Study in Creative Writing (1-5). Development and completion of a graduate level independent project in creative writing undertaken with the consent of the instructor. Prerequisites: Graduate standing and permission of the instructor.

CRW 6806 Teaching Creative Writing (3). The course will prepare graduate students (and teachers from secondary schools and community colleges) to teach introductory classes and workshops in Creative Writing. Students will observe and participate in the department's CRW 2001 courses. Prerequisites: CRW 3111, 3311, or graduate standing, or permission of the instructor.

CRW 6971 Creative Writing Thesis (3). Research and writing for the creative writing thesis. May be repeated. Prerequisite: 12 hours graduate CRW course work.

CRW 6972 Creative Thesis Continuance (1). Further guidance and direction for creative writing MFA candidates who have completed the two semester intensive sequence in CRW 6971. May be repeated.

ENG 5058 Form and Theory of Contemporary Literature (3). Various approaches and theories of practice in the major genres of imaginative writing, including development and articulation of the creative aesthetic. May be repeated. Prerequisite: Permission of the instructor.

Earth and Environment

Leonard Scinto, *Associate Professor and Chairperson*
Dean Whitman, *Professor and Associate Chairperson*
Elizabeth Anderson, *Associate Professor*
William Anderson, *Professor and Associate Vice President, Office of Research and Economic Development*
Maruthi Sridhar B. Bhaskar, *Associate Professor*
Mahadev Bhat, *Professor*
Jesse Blanchard*, Assistant Teaching Professor*
Jessica Bolson, *Assistant Teaching Professor*
David Bray, *Professor*
Robert Burgman, *Associate Professor*
Laurel Collins, *Professor*
Grenville Draper, *Professor*
Tatiana Gaona-Narvaez, *Assistant Teaching Professor*
Stephen Haggerty, *Distinguished Research Professor*
Joel Heinen, *Professor*
Rosemary Hickey-Vargas, *Emeritus Professor*
Patricia Houle, *Teaching Professor*
Krishnaswamy Jayachandran, *Distinguished University Professor*
Clinton Jenkins, *Associate Professor*
Haiyan Jiang, *Professor*
Amir A. Khoddamzadeh, *Associate Professor and Undergraduate Program Director*
Stephen P. Leatherman, *Professor*
Hong Liu, *Professor*
Andrew Macfarlane, *Associate Professor*
Florentin Maurrasse, *Professor*
Assefa Melesse, *Professor and Graduate Program Director*
Pallab Mozumder, *Professor*
Paulo Olivas, *Assistant Professor*
John Parker, *Emeritus Professor*
Thomas Pliske, *Emeritus Teaching Professor*
René Price, *Professor*
Kathleen Quardokus Fisher, *Associate Professor*
Gary Rand, *Emeritus Professor*
Rodolfo Rego, *Associate Teaching Professor*
Jennifer Rehage, *Professor*
James Riach, *Associate Teaching Professor*
Michael Ross, *Professor*
Kateel Shetty, *Associate Research Professor*
Neptune Srimal, *Teaching Professor*
Michael Sukop, *Professor*
Tiffany Troxler, *Associate Professor*
Shimon Wdowinski, *Professor*
Hugh Willoughby, *Distinguished Research Professor*
Ping Zhu, *Professor*

Knowledge of the Earth and its environments is essential for successful stewardship of our home planet. The mission of FIU's Department of Earth and Environment is to be at the forefront of research and education about the dynamic interaction of Earth's systems, the environment, and related societal issues. Programs in the department address understanding and stewardship of the Earth. In addition, the department fosters understanding of the planet's bounty, with topics such as water, mineral, energy and agricultural resources. A third area of emphasis is environmental problems, both natural events such as earthquakes, volcanic eruptions and floods, and human-made problems such as oil spills, ecosystem degradation and soil erosion. The department offers the Doctor of Philosophy Degree (Ph.D.) in Earth Systems Science, the Master of Science Degree (M.S.) in Geosciences, and the Master of Science (M.S.) in Environmental Studies.

Doctor of Philosophy Degree in Earth Systems Science

The Ph.D. degree program offers concentration in either the geosciences with the Geosciences Major, or in environmental sciences, conservation, policy and management with the Natural Resource Science and Management Major. One of the two majors is chosen at the time of application in consultation with the student's prospective advisor, according to the emphasis of the student's research area. The Geosciences Major includes research on the solid Earth (structural geology, tectonics, igneous petrology, geochemistry, economic geology, and geophysics); Earth history, sedimentary rocks, and paleontology (stratigraphy, sedimentology, paleobiology, and paleoecology); Earth surface processes (hydrogeology, coastal geology, environmental biogeoscience, remote sensing and GIS applications, environmental geology, and geologic hazards); and atmospheric science (meteorology and climatology). The Natural Resource Science and Management Major includes research on the environmental sciences as related to environmental policy, conservation, and natural resource management. Overall, the doctoral program emphasizes a multidisciplinary approach to solving geoscientific and environmental problems, and stresses the importance of field observations complemented by laboratory analysis and numerical modeling.

Application Procedures

Admission decisions to the Doctoral Program in Earth Systems Science will be made by the Department's Graduate Committee. To be considered for admission, applicants must submit the following documents prior to the admission deadlines.

1. FIU On-line Graduate Application Form (available at **https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html**).
2. Official transcripts of all college level work. When applicable, a certified English translation must accompany the original.
3. Graduate Record Examination and English proficiency (TOEFL and TSE) exam scores taken within the previous five years, sent from the Education Testing Service.
4. A resume with pertinent information regarding applicant's previous experience and achievements.
5. A statement of intent, including a brief discussion (not to exceed 2000 words) of educational goals and career projections, and the name of the prospective advisor. Applicants are urged to contact prospective advisors prior to application. The applicant may also include a copy of previous written scientific work.
6. Three letters of recommendation from former professors or academic advisors.
7. Official transcripts and test scores should be sent directly to the Office of Admissions, Florida International University, P.O. Box 659004, Miami, FL 33265.

Admission Requirements

To be admitted to the Doctoral Program in Earth Systems Science, a student must meet the following minimum requirements:

1. Hold a Bachelor's or Master's degree from an accredited college or university in a relevant discipline.
2. Have a grade point average (GPA) of 3.0 or higher (or equivalent) during the last two years of the undergraduate program, and 3.0 or higher during the Master's degree program.
3. Submit official Graduate Record Examination (GRE) scores.
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT (internet-based) TOEFL, 550 on the paper-based TOEFL, or 6.5 overall on the IELTS is required. A score of at least 50 on the Test of Spoken English (TSE) or 26 in the speaking section of the iBT TOEFL is required in order to be eligible for a teaching assistantship.
5. Meet the University's general requirements for admission to graduate programs. All application materials should be submitted by February 1 in order to be considered for Fall term admission and by August 1 for Spring term admission.

Financial Aid

The Earth and Environment Department offers a number of graduate teaching and research assistantships which are awarded on a competitive basis. Teaching assistantships begin only in the fall semester. The assistantships provide a stipend and waiver of tuition. Applicants interested in an assistantship should indicate this in the FIU Graduate Application form and their cover letter. Applicants seeking assistantships should contact individual faculty members in their area of research interest.

Course Requirements

The Doctor of Philosophy in Earth Systems Science is conferred based on satisfactory completion of required course work, a demonstrated mastery of a broad scope of knowledge, and the ability to conduct original and independent research. A minimum of 75 graduate-level credit hours is required. A minimum of 24 credit hours is devoted to research toward the Ph.D. Dissertation. A maximum of 36 graduate credit hours of formal lecture courses earned as part of a graduate degree from another accredited program may be transferred with the approval of the major advisor and Graduate Program Director.

ISC 5150	Introduction to Research in Earth and Environmental Sciences	2
ISC 5151	Earth and Environmental Graduate Seminar	1
ISC 6152	Earth and Environment Advanced Graduate Seminar	1
ISC 6153	Environments of a Changing Planet	3
GLY 6061	Geoscience Systems	3
EVR 6377	Natural Resource Conservation and Policy	3
GLY/EVR 7980	Ph.D. Dissertation	15

The remaining credits must include at least 12 credits of non-research, formal coursework. All coursework is selected in consultation with the major advisor. Natural Resource Science and Management majors should complete at least 18 credit hours in formal environmental coursework, so that upon graduation they can be certified as faculty members qualified to teach in that field.

Graduation Requirements

1. A minimum GPA of 3.0 in all coursework is required for the Ph.D. degree.
2. Satisfactory performance on the Qualifying Examination covering general geoscientific and/or environmental knowledge and the field of specialization.
3. Successful presentation of a research proposal and oral examination before the Dissertation Committee, which together constitute the Candidacy Examination.
4. Completion and successful defense of a dissertation.

Master of Science in Geosciences

This degree program offers opportunities for research in the same areas as for the Geosciences Major of the Ph.D. in Earth Systems Science (above). It emphasizes a multidisciplinary approach to solving geoscientific problems, stressing the importance of field observations complemented by laboratory analysis and numerical modeling. The application and admission procedures are also the same. Teaching assistantships are not available for the M.S. in Geosciences.

The Master of Science degree is conferred upon successful completion of the requirements (listed below) of either the Thesis Track or Non-Thesis Track option of the degree program.

Thesis Track: Course Requirements: 30 credits, including:

ISC 5151/ISC6152 Earth and Environment Graduate Seminar		2
Courses in field of specialization		18
Electives		4
GLY 6971	Thesis	6

Courses in the field of specialization and electives are chosen by the student in close consultation with a faculty advisor. These courses are selected to fit the student's particular professional goals and to ensure sufficient depth and breadth of geological knowledge.

Thesis Track: Graduation Requirements

1. A minimum GPA of 3.0 in all coursework counted toward the 30 credits is required for the Master's degree.
2. Satisfactory completion and defense of a thesis proposal and an original research thesis is required.

Non-Thesis Track: Course Requirements: 30 credits, including:

Courses in field of specialization	18
Electives	12

Electives for the non-thesis track may include at most 3 credits of Supervised Research (GLY 6910) leading to a research paper.

Doctoral candidates in the Geosciences Major who have filed the D-2 and D-3 forms and accepted by the University Graduate School can receive a Master of Science in Geosciences en route to the PhD after completion of 36 credits of graduate coursework with "non-thesis track" appearing in the transcript.

Non-Thesis Track: Graduation Requirements:
A minimum GPA of 3.0 in all course work counted toward the 30 credits is required for the Master's degree.

Combined BS/MS in Geosciences Degree Pathway

The combined BS/MS degree pathway in Geosciences allows qualified students to earn both the BS in Geosciences and a non-thesis MS in Geosciences in a shorter amount of time than typically required for earning degrees sequentially. The accelerated pathway is designed for highly qualified undergraduate students in the Department of Earth and Environment.

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credit hours including all lower division requirements, typically have at least 30 credit hours remaining in the program and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Current enrollment in the Bachelor of Science program in Geosciences at FIU.
2. Completed at least 75 credits of coursework (including UCC), and typically has 30 credits remaining.
3. Completion of all lower division required courses for the bachelors degree.
4. Minimum GPA of 3.2.
5. Official GRE scores.
6. Three letters of recommendation.
7. Approval by the Earth and Environment Graduate Committee.

General Requirements

1. Meet the requirements of both the BS and non-thesis MS degree in Geosciences.
2. *Overlap of programs:* Up to 3 courses (9 credits) may be used in satisfying ***both*** the BS and MS degree requirements, which must be at the 5000-level or higher.

Fields of Concentration in the Geosciences Major of the Ph.D. in the Earth Systems Science and the M.S. Geosciences

Atmospheric Sciences

Researchers focus on hurricane dynamics, hurricane impacts, hurricane boundary layer turbulence structures, atmospheric convection, atmospheric boundary layer and clouds, and cloud-climate feedbacks.

Environmental Biogeoscience

Research in this concentration applies knowledge of biological, geological, physical, and chemical processes to current threats facing the biosphere, including deteriorating water and air quality, loss of biodiversity and ecosystem function, soil degradation, coastal erosion, and other emerging issues at local or global scales.

Geophysics/Paleomagnetism/Remote Sensing

Geophysical investigative techniques using gravity, magnetism, seismic reflection and refraction, earthquake seismology, thermal properties, and satellite imagery. Land-based geophysical studies of the Caribbean and South American seismicity and crustal structure. Environmental geophysical studies in the South Florida and Caribbean regions.

Hydrogeology/Environmental Geology

Field and modeling approaches to groundwater flow and solute fluxes in subsurface and near subsurface environments. Interaction of surface water and groundwater, solute transport, chemical and isotopic tracing techniques, watershed hydrology in Florida and beyond.

Igneous Petrology/Geochemistry/Economic Geology

Research problems in petrology/geochemistry of igneous and metamorphic rocks with reference to their origin, and relationships in time and space. Origin of hydrothermal and other economic deposits. Field occurrence, geochemistry and petrogenesis of crystalline rocks, forming the continental crust and seafloor. Generation of associated (often, economically significant) hydrothermal deposits. Application of trace element and isotope geochemistry to the study of these petrogenetic associations.

Paleontology

Research applied to taxonomy, phylogeny, evolutionary processes, paleoecology, taphonomy, and biostratigraphy of select microfossil groups. Research may address questions about biodiversity, biogeography, paleoecology, paleoenvironments, response to global climatic changes, and paleooceanography.

Stratigraphy/Sedimentology

Sedimentary petrology, sedimentary environments, paleo-oceanography, sequence stratigraphy, cyclic stratigraphy, microfacies analysis, and basin analysis. Field and laboratory techniques address evolution of sedimentary basins and their relationships to global and regional tectonics and paleoceanographic change.

Structural Geology – Tectonics

Field-oriented research on methods of structural analysis. Analysis of geologic deformation based upon the principles of mechanics and utilizing research data from laboratory and field investigations of folding, fabrics, fracture, and faulting. Structural geology of the Caribbean and South America.

Fields of Concentration in the Natural Resource Science and Management Major of the Ph.D. in Earth Systems Science

Land and Aquatic System Science

Application of multidisciplinary science and research techniques to managing environmental problems and sustainable use of land and aquatic resources; understanding and quantification of fundamental physical, chemical, and biological processes operating on land and in water, soil and other environments.

Natural Resource Management

Study of the interactions between natural systems and human systems. Research and management problems in the fields of natural resource conservation, ecosystem restoration, agroecology, ecotoxicology, forestry, wildlife, fisheries, and coastal and marine resources.

Environmental Economics and Policy

Analysis of policy effectiveness in managing environmental pollution, sustainable development, energy resources, climate change, food and agriculture, community forests, and local, national and international conservation programs. Research methods in ecosystem service valuation, economic modeling, and ethnographic and other behavioral analyses.

Master of Science in Environmental Studies

The Department of Earth and Environment offers the Master of Science (M.S.) in Environmental Studies degree to train students for work in the areas of environmental policy, natural resource science and management, and sustainable development. An emphasis of the program is the cultural and political milieu in which environmental issues of a region are embedded. The program is interdisciplinary in nature, and students are encouraged to take advantage of University-wide resources, programs, and courses in environmental issues, such as those in Public Administration, International Relations, Biology, Chemistry, Geosciences, Political Science, Economics, and Sociology/Anthropology.

The M.S. degree program offers two options: thesis track and non-thesis track. The thesis track involves rigorous, solutions-oriented scientific research into the functioning of environmental systems. This track is highly recommended for students who are coming directly from undergraduate programs and who are interested in doctoral research in the future. The non-thesis track is primarily designed for employed professionals who may want to enhance their careers and skills through additional academic training beyond their bachelor's degree and practical training through internships with agencies, corporations, non-profit organizations or academic institutions. It is not recommended for students who do not have job experience.

Admission Requirements

To be admitted into the Master's Program in Environmental Studies, a student must meet the University's graduate admission requirements and have:

1. Have a "B" average in upper level work and submit official GRE scores, which every candidate must take.
2. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
3. Submit three letters of recommendation, a one-page statement of research interests, and a copy of all transcripts to University Graduate Admissions on or before February 1 for the Fall admissions and August 1 for the Spring admissions.
4. Receive approval of the departmental Graduate Program Committee.

Degree Requirements

The Master of Science in Environmental Studies requires 36 credits, including the specific requirements (listed below) of either the thesis-track or non-thesis track option of the degree program. A maximum of six credits of post-baccalaureate graduate coursework may be transferred from other institutions, subject to approval of the Graduate Committee. Particular courses will be determined by the student in consultation with the thesis advisory committee, faculty advisor, or the Graduate Program Director.

Thesis Track: Course Requirements

ISC 6153	Environments of a Changing Planet	3
EVR 6377	Natural Resource Conservation and Policy	3
ISC 5150	Introduction to Research in Earth and Environmental Sciences	2
ISC 5151/ ISC 6152	Graduate Seminar/Advanced Graduate Seminar	1
EVR 6971	Master's Thesis	6
Research Methods or Analysis Course		3
Electives		18
Total Credits		36

The research methods course and electives are selected in consultation with student's thesis advisor. Elective courses fit the student's thesis research. Additional Master's Thesis, Thesis Research, or Graduate Independent Study up to a maximum total of 3 credits may also be applied as elective credit. A maximum of six credit hours may be taken at the 4000 level, and a minimum of six credit hours of electives must be taken in Environmental Studies or other departmental courses. Students must demonstrate a competency in Statistics (equivalent to two courses of undergraduate statistics, taken prior to the admission into the program, with a "B" or better grade in both courses, or one course of graduate statistics with a "C" or better grade in both courses). Additional course work may be recommended by the advisory committee.

Thesis Track: Graduation Requirements

A grade of 'B' or higher must be obtained in all core courses. A grade of 'C' or higher must be obtained in all courses, with a cumulative GPA of 3.0 or higher in the 36 credits. A thesis must be completed and successfully defended in consultation with the student's graduate thesis committee.

Non-Thesis Track: Course Requirements

ISC 6153	Environments of a Changing Planet	3
EVR 6377	Natural Resource Conservation and Policy	3
EVR 5907	Research and Independent Study	3

ISC 5151/ ISC 6152	Graduate Seminar/Advanced Graduate Seminar	2
Quantitative Methods Course		3
Electives		22
Total Credits		36

The quantitative methods course and electives are selected in consultation with faculty advisor. Elective courses are chosen and to fit the student's particular professional interest and to ensure sufficient breadth and depth of environmental studies knowledge. Students carrying out research, internship or independent study for their non-thesis project should sign up for EVR 5907, but may not exceed 6 credits total. EVR 6970 and EVR 6971 will not count toward electives. A maximum of 6 credit hours may be taken at the 4000 level. A minimum of 12 elective credits must be taken in Environmental Studies or other departmental courses. All courses must be taken for letter grades.

Doctoral candidates in the Natural Resource Science and Management Major of the Earth Systems Science degree who have filed the D-2 and D-3 forms and accepted by the University Graduate School can receive a Master of Science in Environmental Studies en route to the PhD after completion of 36 credits of graduate coursework with "non-thesis track" appearing in the transcript.

Non-Thesis Track: Graduation Requirements

A grade of "B" or higher must be obtained in all core courses. A grade of "C" or higher must be obtained in other courses, with a cumulative GPA of 3.0 of higher in the 36 credits. A project (EVR 5907) must be completed under faculty supervision, and the project report must be presented as a part of the Graduate Seminar class. This work may be based on a specific field research, or internship of current occupation. A project is defined as a substantial analysis and proposal for change of real-world environmental problem.

Graduate Concentrations for the Master of Science in Environmental Studies

The Department of Environmental Earth and Environment currently offers graduate-level concentrations in several different areas. A list of electives for each of these concentrations can be obtained from the Department's Office.

Professional Science Master's (PSM) in Environmental Policy and Management

The Professional Science Master's degree in Environmental Policy and Management is an interdisciplinary program designed to prepare students for careers in local, state and national environmental organizations and agencies. This professional degree is meant primarily for working professionals who wish to pursue a Master's on an accelerated basis. Most of the formal coursework is offered on Saturdays, and some courses may be offered as hybrid or fully online sections. The curriculum offers students a wide range of competencies within broader professional areas related to environmental policy and management.

Admission Requirements

To be admitted into the professional science master's program in EPM, a student must meet the University's graduate admission requirements and have:

1. A "B" average in upper level work, which every candidate must take. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
2. Submitted three letters of recommendation, a one page statement of career interests, and a copy of all transcripts to the Graduate Program Director on or before March 1 for International students and May 1 for Domestic students for the Fall admissions.
3. Received approval of the departmental graduate program committee.

Degree Requirements

The PSM in Environmental Policy and Management consists of a total of 36 credits, including an internship and completion of an independent study. The program is to be completed in four semesters with a course load of 10 credits during the fall and spring semesters and 6 credits in the summer.

Core Courses

EVR 5355	Environmental Resource Policy	3
EVR 5320	Environmental Resource Management	3
EVR 6950	Graduate Seminar *(3 semesters @ 1 credit each)*	3
STA 6196	Statistics for Environmental Sciences	3

Area Subjects

EVR 5409	Advanced Conservation Biology	3
EVR 5215	Water Resources Assessment	3
GIS 5050	Environmental GIS	3
EVR 7322	Methods in Sustainable Resources Management	3
EVR 7445	Public Lands Management	3
MMC 5655	Mass Communication and the Environment	3
EVR 5907	Research and Independent Study*	6

Course Schedule

Semester 1 (Fall)

EVR 5320	Environmental Resource Management	3
STA 6196	Statistics for Environmental Sciences	3
GIS 5050	Environmental GIS	3
EVR 6950	Graduate Seminar 1	1

Semester 2 (Spring)

EVR 5355	Environmental Resource Policy	3
EVR 5409	Advanced Conservation Biology	3
EVR 5215	Water Resources Assessment	3
EVR 6950	Graduate Seminar 2	1

Semester 3 (Summer)

EVR 5907	Research and Independent Study*	6

Semester 4 (Fall)

EVR 7322	Methods in Sustainable Resource Management	3
EVR 7445	Public Lands Management	3
MMC 5655	Mass Communication and the Environment	3
EVR 6950	Graduate Seminar 3	1

Internship and Study Report

Students are required to complete a minimum of 6 credits as a laboratory or field internship during the summer semester of the program. During this time, they will work on a relevant, management-related project that has been mutually agreed upon by the employer and a faculty advisory committee. Students will be required to write a report on this project and present it orally as part of the final cumulative examination held at FIU. The student's advisory committee shall consist of the faculty sponsor and at least two additional committee members who have expertise in environmental science and/or the natural sciences.

Graduation Requirements

A grade of "B" or higher must be obtained in all core courses. A grade of "C" or higher must be obtained in other courses, with a cumulative GPA of 3.0 or higher in the 36 credits. A project (EVR 5907) must be completed under faculty supervision, and the project report must be presented as part of the Graduate Seminar class (EVR 6950). This work may be used based on a specific field research, or internship of current occupation. A project is defined as a substantial analysis and proposal for change of real-world environmental problem.

Combined BS/MS or BA/MS in Environmental Studies Degree Pathway

The combined BS/MS or BA/MS degree pathway in Environmental Studies allows qualified students to earn both the BS in Environmental Studies or the BA in Sustainability and the Environment and a non-thesis MS in Environmental Studies, in a shorter amount of time than typically required for earning degrees sequentially. The accelerated pathway is designed for highly qualified undergraduate students in the Department of Earth and Environment.

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credit hours including all lower division requirements, typically have at least 30 credit hours remaining in the program, and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Current enrollment in the Bachelor's Degree Program in Environmental Studies or Sustainability and the Environment at FIU.
2. Completed at least 75 credits of coursework (including UCC), and typically has at least 30 credits remaining.
3. Completion of all lower division required courses for the Bachelor's degree.
4. Current GPA of 3.25 or higher.
5. Official GRE scores.
6. Three letters of recommendation.
7. Approval by the Earth and Environment Graduate Committee.

General Requirements

1. Meet the requirements of both the BS in Environmental Studies or BA in Sustainability and the Environment and the non-thesis MS degree in Environmental Studies.
2. Overlap of programs: Up to 3 courses (9 credits) may be used in satisfying **both** the BA/BS and MS degree requirements, which must be at the 5000-level or higher.

Juris Doctor/Master of Science in Environmental Studies Joint Degree Pathway

The faculties of the College of Law and the College of Arts, Sciences and Education at Florida International University offer a joint degree pathway culminating in both a Juris Doctor (J.D.) degree, awarded by the College of Law, and a Master of Science in Environmental Studies (MS-ES) degree, awarded by the College of Arts, Sciences and Education. Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. Essential criteria relating to the joint degree pathway are as follows:

1. Candidates for the pathway must meet the entrance requirements for and be accepted by both Colleges. Both Colleges must be informed by the student at the time of application to the second program that the student intends to pursue the joint degree.
2. The joint degree pathway is not open to students who have already earned one degree.
3. For law students, enrollment in the MS-ES program is required no later than the completion of 63 credit hours in the J.D. program. For MS-ES students, enrollment in the J.D. program is required no later than the completion of 24 credit hours in MS-ES program.
4. A student must satisfy the curriculum requirements for each degree before either degree is awarded. For the MS-ES degree, students must meet the requirement of the non-thesis track option. The College of Arts, Sciences and Education will allow 6 credit hours of foundation law courses and up to 9 credit hours of upper level environmental law courses to be credited toward both the MS-ES and J.D. degrees. These law classes will count toward the non-EVR Environmental Studies elective credits allowed under the MS-ES non-thesis track program. Reciprocally, law students may receive 9 hours of credit toward the satisfaction of the J.D. degree for courses taken in the MS-ES curriculum upon completion of the MS-ES degree curriculum with a grade point average of 3.0 or higher.
5. The College of Arts, Sciences and Education will recognize any significant, environment-related law review or research project completed with a letter grade of 'B' or better for the J.D. program toward the 3 credit hour course, EVR 5907 Research and Independent Study and the attendant 'Project' required for the MS-ES non-thesis track program. For

the purpose of this program, a Project is defined as a substantial analysis and proposal for change of a real-world environmental problem, and requires preparation of a report and presentation as part of the required Environmental Studies Graduate Seminar class.

6. A student enrolled in the joint degree pathway may begin the student's studies in either College, but full time law students must take the first two semesters of law study consecutively and part-time law students must take the first three semesters of law study consecutively. Students admitted to one College but electing to begin study in the other College under the joint degree pathway may enter the second College thereafter without once again qualifying for admission so long as they have notified the second College before the end of the first week of the first semester in the second College and are in good academic standing when studies commence in the second College.
7. A student enrolled in the joint degree pathway will not receive either degree until the student has satisfied all of the requirements for both degrees, or until the student has satisfied the requirements of one of the degrees as if the student had not been a joint degree candidate.
8. As non-thesis track MS-ES students, students in the joint degree pathway will not normally be eligible for the graduate teaching assistantships in the Environmental Studies Department.

Course Descriptions

Note: Laboratories may not be taken prior to the corresponding lecture course. Laboratories must be taken concurrently where noted, but students must register for the laboratory separately.

Definition of Prefixes

AGR-Agronomy; ESC-Earth Science; EVR-Environmental Studies; EVS-Environmental Science; GIS-Geography: Information Science; GLY-Geology; ISC-Interdisciplinary Science/Natural Science; MET-Meteorology; OCG-Oceanography-Geological; SWS-Soil and Water Sciences
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

AGR 5241 Advance Modern Crop Production (3). An advance course in agronomy applying crop, soil, and environmental sciences in understanding agricultural systems in the world. Includes the concepts of plant, seed, water, soil, tillage, pest, post harvest, ecophysiology, and sustainable aspects of crop production.

AGR 6251 Sustainable Farming Systems (3). Analysis of sustainability of modern agricultural farming systems under a variety of ecological economic and cultural settings.

AGR 6255 Ecological Agriculture (3). Application of ecological principles to modern farming systems to achieve goals of long-term food production without depleting Earth's resources.

ESC 5005 Earth Science Enrichment Activities for Teachers (1-2). Workshop presenting Earth Science enrichment activities to high school and middle school science teachers.

EVR 5006 Environmental Science and Sustainability (3). Introductory environmental science course for graduate students in environmental studies and other disciplines. Emphasizes physical sciences and applications to environmental issues.

EVR 5044 Advanced GIS and Environmental Data Analysis (3). Explores project planning, geospatial database design and implementation of analytical and display methods in GIS for organizing, querying, analyzing and presenting spatial data. Prerequisites: One of the following: EVR 5050, CGN 4321, CGN 5320, INR 4931, URS 6930.

EVR 5061 South Florida Ecology: Field Studies (3). Introduction to ecology of South Florida. Series of field trips to unique ecosystems (Everglades, hardwood hammocks, coastal regions). No science background required. Intended for teachers. Not intended for Environmental Studies graduate students.

EVR 5065 Ecology of Costa Rican Rainforest (3). Intensive study of Central American tropical forest ecosystems conducted for two weeks in Costa Rica in sites ranging from lowland to high mountains. Primarily for teachers. Prerequisites: Graduate standing or permission of the instructor.

EVR 5066 Ecology of the Amazon Flooded Forest (3). Study of the ecology of the flooded forest with emphasis on the relationships between plants and animals and the annual flooding cycle. The course includes a two-week field study at river camp in Peru. Prerequisites: Graduate standing or permission of the instructor.

EVR 5069 Wetland Ecology and Management (3). Principles of ecology and management as applied to freshwater and estuarine wetlands. Prerequisites: Undergraduate degree in science, or PCB 3043, or permission of the instructor.

EVR 5086 Advanced Environmental Data Analysis for Environmental Finance (3). Environmental data types, sources, access, analysis, and modeling using standard and emerging tools. Emphasis on environmental risk evaluation using environmental data and statistical software.

EVR 5122 Natural Disasters and Social Vulnerability (3). Natural Disasters and Social Vulnerability course will introduce basic concepts and analytical tools of societal responses in managing natural disasters.

EVR 5219 Water Resources Assessment (3). Elements of hydrological cycle, hydrological processes and water resources assessment with emphasis on surface and groundwater water quantity and quality evaluation is central to the course.

EVR 5236 Air Pollution Dynamics (3). A course designed to give an understanding of the fates of atmospheric pollutants. Scavenging processes in the atmosphere; radiation, residence times, chemical reactions, global transport process, point source dispersion and modeling calculations. Prerequisites: EVS 3360 or EVR 4231.

EVR 5313 Renewable Energy Sources (3). An analysis of renewable energy sources and energy efficiency including wind, biomass, geothermal, hydroelectric, solid

waste, solar heating, solar cooling, and solar electricity. Prerequisite: Permission of the instructor.

EVR 5315 Energy Resources and Systems Analysis (3). Detailed analysis of energy flows in natural and manmade systems. Energy systems analysis. Energy use patterns. Conventional and alternate sources of energy.

EVR 5320 Environmental Resource Management (3). The scientific and philosophical basis for the management of renewable and non-renewable energy, mineral, air, water, and biotic resources. Prerequisites: Graduate standing or permission of the instructor.

EVR 5332 Integrated Solutions for Water in Environment and Development (3). Examines the theory and practice of integrated water resources management, focusing on science, policy, and socioeconomic themes evaluated through case studies from different regions of the world. Emphasis given to environmental elements.

EVR 5353 International Energy Policy (3). Focuses on the distribution of global energy resources and related issues. A comparison of the energy policies of various countries serves as the basis for exploring alternative energy policy approaches. Prerequisites: EVR 5355 or permission of the instructor.

EVR 5355 Environmental Resource Policy (3). A survey of international and national environmental policy and the legal, economic, and administrative dimensions of international accords and selected U.S. law. Prerequisites: EVR 5320 or permission of the instructor.

EVR 5360 Protected Area Management (3). Explores historical, ecological, legal and socioeconomic aspects of the management of natural areas using examples worldwide. Prerequisite: Graduate standing in Environmental Studies or permission of instructor

EVR 5375 Advanced Restoration Ecology (3). Restoration planning, endangered species reintroduction, disturbed land reclamation, ecosystem restoration, challenges of climate change on ecological restoration. Prerequisite: One course or more in ecology.

EVR 5376 Advanced Ecology and Management of Invasive Species (3). An in depth study of the key ecological, social, and management questions surrounding introduced invasive species.

EVR 5406 Endangered Species Policy and Management (3). Exploration of the history of the U.S. Endangered Species Act, and its implementation and effectiveness through the listing and recovery planning processes. Prerequisite: Graduate standing in Environmental Studies or Biology, or permission of instructor.

EVR 5409 Advanced Conservation Biology (3). Exploration of modern applications of ecology, genetics and evolutionary biology in the conservation biology. Policy aspects of biological conservation are also discussed. Prerequisites: BSC 2010 and BSC 2011.

EVR 5907 Research and Independent Study (VAR). The student works with a professor on a research project. Variable credit.

EVR 5935 Special Topics (VAR). A graduate-level course dealing with selected environmental topics. The content will not necessarily be the same each time the course is offered.

EVR 5936 Topics in Environmental Studies (3). An analysis of several current environmental topics. Recommended for primary and secondary school teachers.

EVR 6067 Tropical Forest Conservation and Utilization (3). Distribution and classification of tropical forest ecosystems, their description and the ecological principles governing their function. Factors influencing tropical forest utilization and destruction, and strategies for sustainable use and conservation. Prerequisites: EVR 5355 or permission of the instructor.

EVR 6268 Remote Sensing in Hydrology (3). Sensors, platforms, satellites; image rectification, classification; data assimilation and parameterization; soil moisture, rainfall, discharge, evapotranspiration measurement, modeling and validation. Prerequisites: GLY 5754 or equivalent or permission of the instructor and EVR 5219 or EVR 4211 or equivalent or permission of the instructor.

EVR 6300 Topics in Urban Ecology (3). Topics include urban and suburban ecosystems emphasizing energy relations, ecological functions of urban landscapes, urban wildlife, urban forestry and ecological issues relevant to human health and well-being. Prerequisites: PCB 3043 or permission of the instructor.

EVR 6330 Tropical Ecosystems Management (3). Analyzes the dimensions of tropical ecosystems management. Organizational and institutional dynamics of the management of tropical forests, agriecosystems, and coastal areas are covered. Prerequisite: Permission of the instructor.

EVR 6377 Natural Resource Conservation and Policy (3). Interdisciplinary course focusing on diverse conservation issues and policy aspects of managing and conserving natural resources.

EVR 6405 International Biological Conservation Accords (3). Survey of international biological conservation agreements. Topics include bilateral migratory wildlife agreements, the Berne Convention on Migratory Wildlife, CITES, Ramsar, the UNCED Biodiversity Treaty and the Statement of Principles on Forests. Prerequisites: EVR 5355 or permission of the instructor.

EVR 6950 Graduate Seminar (1). A weekly seminar that features guest speakers, student presentations, and discussions among graduate students and faculty. Environmental Studies graduate students are required to register during three semesters of their program. Prerequisite: Permission of the instructor.

EVR 6970 Supervised Research (1-12). Supervised research toward completion of the student's program of study. Repeatable. Prerequisite: Permission of Major Professor.

EVR 6971 Master's Thesis (1-12). Completion of Master's Thesis. Repeatable. Prerequisite: Permission of Major Professor.

EVR 7056 GIS in Water Resources (3). Spatial analysis of watersheds and modeling of hydrological processes with emphasis on surface runoff, evapotranspiration and

sub surface flow. Prerequisite: GIS 5050 or equivalent or permission of the instructor.

EVR 7084 Interdisciplinary Environmental Studies (3). Explores theoretical and practical approaches to interdisciplinary analysis of environmental issues, including sustainability science, ecological economics, and human-nature interactions. Prerequisites: EVR 5320 and EVR 5355 or equivalent or permission of the instructor.

EVR 7322 Methods of Sustainable Resource Management (3). A study of methods and policies for achieving a sustainable environment. Covers project appraisal, resource modeling and national accounts in the context of resource sustainability. Prerequisites: Graduate standing or permission of the instructor.

EVR 7329 Watershed Analysis and Management (3). An examination of the watershed approach to managing water and land resources. Integrating fundamental physical, chemical, and biological processes with human systems at the landscape scale using GIS.

EVR 7445 Public Land Management (3). Examines the historical, administrative, and legal settings that have predisposed various resource management agencies to succeed or fail in protecting public lands. Explores new and integrated approaches to building consensus on public land management issues. Prerequisites: EVR 5320, EVR 5355, equivalent or permission of the instructor.

EVR 7980 Ph.D. Dissertation (1-15). Research directed towards completion of the doctoral dissertation. To be taken every semester by the candidates if the Ph.D. Prerequisite: Permission of the major professor.

EVS 6145 Ecotoxicology (3). Fate of chemicals and their acute and chronic toxicological effects on aquatic and wildlife systems. Dose-response relationships, bioavailability, bioconcentration, microbial degradation, and biomonitoring. Prerequisites: One year of biology and one year of chemistry and CHM 2200 and lab or permission of the instructor.

EVS 6194 Applied Soil Biology (3). Examines biology of soil organisms and biologically-mediated chemical transformations occurring in soil ecosystems. Prerequisite: BSC 2011.

EVS 6637 Ecological Risk Assessment (3). Evaluation of risks of foreign chemicals to aquatic and terrestrial systems. Concepts and methodology used in the hazard and risk assessment of toxic effluents, chemical/oil spills, and contaminated sediments. Prerequisites: One year of biology and one year of chemistry and CHM 2200 and lab or permission of the instructor.

GIS 5050 Environmental GIS (3). Concepts of GIS, database design and management, advanced spatial analysis and modeling, uncertainty, error, and sensitivity in GIS. Focus on GIS project design, execution and presentation using AroGIS. Prerequisite: Permission of the instructor.

GLY 5021 Earth Sciences for Teachers (3). Study of geological materials and processes, as covered in Physical Geology, but at a higher level and with additional assignments. Prerequisite: Permission of the instructor. (F,S,SS)

GLY 5060 Planet Earth: Dynamic Earth (1). Essentials of metamorphism, rock rheology, seismology, plate tectonics, plate boundaries, plate movement, continental rifting and evolution of mountain belts.

GLY 5107 Planet Earth: Evolving Earth (1). Essentials of lithostratigraphy, biostratigraphy, geologic time scale, modern sedimentological processes, sedimentary rocks, evolution and extinction events, paleoenvironments and paleoclimates.

GLY 5108 Paleoenvironments (3). Sedimentary environments, paleoecology of fossils, skeletal minerology, marine paleoenvironmental changes, global patterns of change through time. Prerequisite: Permission of the instructor.

GLY 5158 Florida Geology (3). Detailed lithostratigraphic and biostratigraphic analyses of Southeast Florida and their relationship to tectonics, paleoclimates. Prerequisites: GLY 4511 and GLY 4511L.

GLY 5159 Planet Earth: South Florida (1). Geology, water resources and geologic environments of South Florida.

GIS 5190 Advanced geospatial measurement techniques in Earth and Environmental Sciences (3). Students will learn state-of-the-art field measurement techniques used in Earth and Environmental Sciences that will prepare them to conduct advanced graduate research.

GLY 5245 Water-Rock Interaction (3). Survey of geochemical processes at the water-rock interface. Topics include absorption of inorganic and organic ions, colloid stability in groundwater, mineral dissolution and precipitation. Prerequisites: CHM 1046, MAC 3312, GLY 4822 or permission of the instructor.

GLY 5246 Geochemistry (3). GLY 5246L Geochemistry Lab (1). Origin of chemical elements and principles affecting their distribution in the solar system, solid earth and hydrosphere. Use of chemical data to solve geologic problems. Prerequisites: Physical Geology and General Chemistry. (S in alternate years)

GLY 5266 Stable Isotope Biogeochemistry (3). Application and theory of stable isotope approaches to biogeochemistry. Topics: Introduction to IRMS machines, C/N/O/H/S (biogeochem. processes), sampling/lab. prep., and recent advances. Prerequisites: One year of chemistry or permission of the instructor.

GLY 5283C Application of ICPES in Geochemistry (3). Determination of elemental abundances in rocks, soils, natural water using inductively coupled plasma emission spectroscopy (ICPES). Instrumental principles, sample selection and preparation methods and application of results to research. Prerequisites: CHM 1045, CHM 1046 or permission of the instructor.

GLY 5286 Research Instrumentation and Techniques in Geology (3). Survey of techniques and instrumentation used in geological research, including computing and data handling. Prerequisites: Graduate standing or permission of the instructor. Corequisite: GLY 5286L.

GLY 5286L Research Instrumentation and Techniques in Geology Lab (1). Introduction to advanced instrumentation and analytical techniques in Geology, including computing and data processing. Prerequisites:

Graduate standing or permission of the instructor. Corequisite: GLY 5286.

GLY 5287C Scanning Electron Microscopy with EDS Analysis (3). Imaging and microanalysis of materials using SEM including EDS. Prerequisite: Permission of the instructor.

GLY 5288C Electron Microprobe Microanalysis with EDS Analysis (3). Imaging and analysis or geological and other materials using electron microprobe with EDS analysis. Prerequisite: Permission of the instructor.

GLY 5298 Topics in Geochemistry (3). Seminar covering current research in selected areas of low-temperature geochemistry: oceans and oceanic sediments; continental waters and sediments; hydrothermal systems. Prerequisites: GLY 5246 or permission of the instructor.

GLY 5322 Igneous Petrology and Geochemistry (3). Presentation and discussion of current topics in igneous petrology and geochemistry in a seminar format. Prerequisite: Permission of the instructor.

GLY 5329 Planet Earth: Solid Earth (1). Essentials of the formation and evolution of the crust mantle and core of the earth. Composition and physical properties. Generation of magmas, their geochemistry.

GLY 5335 Metamorphic Geology (3). Metamorphic mineralogy; characteristics of low, medium and high pressure metamorphic rocks; pressure-temperature determinations; metamorphic textures; modeling and determination of P-T-t paths.

GLY 5335L Metamorphic Geology Lab (1). Petrographic examination of metamorphic rocks.

GLY 5346 Sedimentary Petrology (3). Systematic study of sedimentary rocks. Special emphasis on genetical aspects, geochemistry, paleontology, mineralogy, and microfacies. Emphasizes microscopic study. Prerequisite: GLY 4551. Corequisite: GLY 5346L.

GLY 5346L Sedimentary Petrology Lab (1). Laboratory studies of sediments and sedimentary rocks with emphasis on microscopic analyses and geochemical techniques. Prerequisites: GLY 4551 and GLY 4551L. Corequisite: GLY 5346.

GLY 5408 Advanced Structural Geology (3). Advanced treatment of the theory of rock mechanics to solve problems of natural rock deformation. Prerequisites: GLY 4400, MAC 3413, or permission of the instructor. Corequisite: GLY 5408L.

GLY 5408L Advanced Structural Geology Lab (1). Problem solving in theory of rock deformation. Experimental procedures in rock mechanics. Corequisite: GLY 5408.

GLY 5415 Caribbean Geology and Tectonics (3). Integration of geologic and geophysical data to understand the evolution and present tectonic configuration of the Caribbean area. Prerequisite: Permission of the instructor.

GLY 5425 Tectonics (3). Properties of the lithosphere; plate kinematics and continental drift; characteristics of plate boundaries; mountain belts; formation of sedimentary basins. Prerequisites: GLY 1010, 1100, 4400, 4300, 3202 or permission of the instructor.

GLY 5457 Earth and Environmental Data Analysis with Python (3). Provides analytical skills needed to solve numerical problems in Earth and Environmental sciences. It combines some theory, development and usage of numerical methods (algorithms), and application. Prerequisite: Permission of instructor.

GLY 5457L Analysis of Geophysical Data Lab (1). Field and laboratory applications of geophysical techniques. Computer aided analysis and three-dimensional modeling of gravity and magnetic data. Prerequisites: GLY 4450, PHY 2048, PHY 2049, MAC 2311, MAC 2312, MAP 2302. Corequisite: GLY 5457.

GLY 5475 Exploration Geophysics (3). New in depth review of geophysical methods used in exploration and environmental geophysics. Digital data processing; Seismic methods; potential fields; electrical and EM methods; ground penetrating radar. Prerequisites: MAC 2312, PHY 2049 or PHY 2054.

GLY 5495 Seminar in Geophysics (3). Detailed investigation of current geophysical techniques, including topics on instrument design. Prerequisites: GLY 5457 or permission of the instructor.

GLY 5497 Topics in Structural Geology and Tectonics (3). Selected advanced topics in structural geology and rock deformation. Latest advances in crustal tectonics. Prerequisite: GLY 5408.

GLY 5518 Advanced Stratigraphy (3). Principles of stratigraphy and the geologic time scale applied to the sedimentary rock record, to determine dynamics of sedimentation, depositional environments and correlation. Prerequisite: Permission of the instructor. Corequisite: GLY 5518L.

GLY 5518L Advanced Stratigraphy Laboratory (1). Training in laboratory techniques to analyze sedimentary rocks for depositional reconstruction and correlation. Prerequisite: Permission of the instructor. Corequisite: GLY 5518.

GLY 5593 Topics in Paleoclimatology (3). Broad concepts in paleoclimatology are reviewed and discussed. Topics include climate models, Quaternary climates, dating and pre-Quaternary climates. Prerequisite: Permission of the instructor.

GLY 5599 Seminar in Stratigraphy (3). Discussion of research projects and/or current literature in stratigraphic correlation as derived from sedimentologic principles and biozonation. Prerequisite: GLY 5346.

GLY 5608 Advanced Paleontology I (3). Discussion of current literature and research projects on evolution, systematics functional morphology, with reports by members of the seminar. Prerequisites: GLY 4603 or permission of the instructor.

GLY 5621 Caribbean Stratigraphic Micropaleontology (3). Microscopic study of biostratigraphic type sections from the Caribbean area. Emphasis on planktonic foraminifera and radiolaria, paleoecologic and paleoclimatic interpretations. Prerequisites: GLY 4603 or permission of the instructor.

GLY 5627 Workshop: Microfossil Paleoenvironments (2). Recent foraminifera and diatoms are sampled, prepared and identified from marine to freshwater facies.

Taxon distributions are used to interpret paleoenvironments.

GLY 5628 Radiogenic Isotope Methods (3). Theory and practice of radiogenic isotope ratio measuring techniques. Use of class-100 clean room facilities, and introduction to thermal ionization mass spectrometry. Prerequisite: General Chemistry.

GLY 5655 Topics in Paleobiology (1-3). Various concepts in paleobiology are reviewed and discussed, based on readings of the literature, including journal articles and books. Course may be repeated for credit with change in content. Prerequisite: Permission of the instructor.

GLY 5710 Watershed Hydrology (3). Hydrologic processes on watershed, water budgets, effects on water quality, field investigative methods using tracers and hydrometric measurements, hydrologic and hydro-chemical models.

GLY 5736 Marine Geology and Geochemistry (3). Examination of ocean floor provinces and the evolution of Earth's ocean basins. Interpretation of the distribution and geophysical and geochemical characteristics of seafloor basalt and sediments. Prerequisite: Permission of the instructor.

GLY 5737 Coastal Processes and Environments (3). Focus on the physical processes that cause erosion and shape our coastlines and the consequences for human development and habitation of this dynamic landscape. Prerequisite: Permission of the instructor.

GLY 5754 Applied Remote Sensing in the Earth Sciences (3). Application of remote sensing and image analysis in the earth sciences; qualitative and quantitative satellite image and air photo interpretation. Emphasis is on use of computer processing packages. Prerequisites: GLY 1010 or permission of the instructor.

GLY 5758 GIS and Spatial Analysis for Earth Scientists (3). Application of GIS technology to spatial problems in the Earth Sciences. Topics include: spatial statistics, sampling theory, surface estimation, map algebra, and suitability modeling.

GLY 5785 Caribbean Shallow-Marine Environments (3). Field study of multiple tropical environments in the Caribbean area. Dynamic processes and coastal evolution in response to natural and human-induced changes.

GLY 5786 Advanced Field Excursion (3). A study of the geology of a selected region of the world followed by 10-12 day field trip in order to study the field relationships of the geologic features. Special emphasis is given to stratigraphic, structural and tectonic relationships of lithic package. Prerequisite: Permission of the instructor.

GLY 5808 Mining Geology (3). Application of theoretical models of ore formation to exploration and the use of geochemical and geophysical techniques in the search for ore deposits. Prerequisites: GLY 4300 and CHM 1046.

GLY 5816 Economic Geology (3). Economically important metal deposits of sedimentary, igneous and hydrothermal origins and their geologic settings and characteristics. Prerequisites: GLY 1010, GLY 4300, CHM 1045, CHM 1046. (S)

GLY 5826 Hydrogeologic Modeling (3). Techniques used in modeling groundwater flow and solute transport in geologic systems. Case studies of significant aquifers. Prerequisites: GLY 5827, MAP 2302, or permission of the instructor.

GLY 5827 Hydrogeology (3). Physics of flow in geological media. Saturated and unsaturated flow, groundwater and the hydrologic cycle, estimating hydraulic parameters of aquifers, introduction to chemical transport. Prerequisites: GLY 1010, MAC 2312, and PHY 2053, or permission of the instructor.

GLY 5827L Hydrogeology Lab (1). Laboratory, field, and computer exercises to complement GLY 5827. (F)

GLY 5828 Chemical Hydrogeology and Solute Transport (3). Quantitative analysis of hydrologic, geologic, and chemical factors controlling water quality and the transport and fate of organic and inorganic solutes in the subsurface. Prerequisite: GLY 5827.

GLY 5834 Field Hydrogeology (3). Field methods in hydrogeology. Drilling, logging, wells, data loggers, hydraulic conductivity/transmissivity measurements, purging, field chemistry parameter measurements, sampling methods. Prerequisites: GLY 4822 or permission of the instructor.

GLY 5835 Introduction to Lattice Boltzmann Methods (3). The course will provide an introduction to Lattice Boltzmann methods for fluid dynamics simulation. Emphasis on multiphase fluids. Prerequisites: Programming skills, graduate standing, permission of the instructor.

GLY 5875 Applications of Transmission Electron Microscopy (3). An introduction to theory and practical use of the JEOL JEM-1200EX II, Transmission Electron Microscope. Students will learn to prepare specimens and use for digital recording of publishable images. Prerequisites: Graduate standing or permission of the instructor.

GLY 5888 Coastal Hazards and Mitigation (3). Focus on the processes responsible for tsunamis, storm surges, coastal erosion, land subsidence, sea level rise, etc. and their mitigation.

GLY 5889 Geology for Environmental Scientists and Engineers (3). Characterization of rocks and rock masses; geological maps; seismic hazards; weathering of rocks; hydrologic cycle; slope stability; coastal processes; geophysical techniques. Course includes field trips in the South Florida region. Prerequisites: CHM 1045, GLY 1010 or permission of the instructor.

GLY 6061 Geoscience Systems (3). Description and history of the deep Earth, shallow Earth, Earth's surface and Earth's atmosphere that form one great dynamic system. Discussion of research, discoveries and debates from classic and current scientific articles.

GLY 6159 Stratigraphy of the Circum Caribbean Region (4). Detailed lithostratigraphic and biostratigraphic analyses of Caribbean islands, Central America, northern South America and Caribbean basin. Prerequisites: GLY 5621 or permission of the instructor. (SS)

GLY 6247 Geochronology and Radioactive Isotope Geochemistry (3). Use of naturally-occurring radioactive

and radiogenic isotopes to determine ages of earth events and rates of earth processes at timescales ranging from the recent past through the age of the earth. Prerequisites: GLY 5246 or permission of the instructor.

GLY 6328 Advanced Igneous Petrology (3). Interpretation of igneous rocks; chemistry and physics of magma generation and crystallization; origin of major igneous rock series with emphasis on tectonic controls. Prerequisite: Permission of the instructor. Corequisite: GLY 6328L.

GLY 6328L Advanced Igneous Petrology Lab (1). Identification of rocks using microscopic and microprobe techniques. Prerequisite: Permission of the instructor. Corequisite: GLY 6328.

GLY 6337 Metamorphic Phase Equilibria (3). Theory and methods of calculation of metamorphic phase equilibria and P-T paths using appropriate analysis of composition space, activity models, geothermometry, geobarometry. Origin and interpretation of zoning in metamorphic minerals. Prerequisites: GLY 5335 or permission of the instructor.

GLY 6345 Sedimentary Petrography (3). Comparative study and fundamental observations of sedimentary rocks in hand specimens and under the petrographic microscope; their classification, theoretical and practical implications. Prerequisites: GLY 4551 or permission of the instructor.

GLY 6345L Sedimentary Petrography Laboratory (1). Laboratory studies of sedimentary rocks in thin section. Prerequisites: GLY 4551 or permission of the instructor. Corequisite: GLY 6345.

GLY 6353 Microfacies Analysis (3). GLY 6353L Microfacies Analysis Laboratory (1). Identification and interpretation of the fossil and mineralogical constituents of sedimentary rocks in thin section. Emphasis is placed on the paleoecological significance of fossil remains in carbonates. Prerequisites: GLY 4551 or permission of the instructor.

GLY 6392 Topics in Igneous Petrology and Geochemistry (3). Research seminar in contemporary petrology and geochemistry. Student presentation on thesis research. Prerequisites: GLY 5322 or permission of the instructor.

GLY 6427 Quantitative Geotectonics (3). Application of continuum mechanics and heat transfer to problems in geology. Observational constraints on earth properties. Emphasis is on problems relating to the earth's lithosphere. Prerequisites: GLY 4450, GLY 4400, GLY 5425 and MAP 2302 or permission of the instructor.

GLY 6444 Quantitative Analysis of Joints and Faults (3). Application of fracture mechanics to geologic problems, including the analysis of local and regional stress fields, bedrock fracture systems, estimation of fracture related strain, and the influence of mechanical properties on rock failure. Prerequisites: GLY 4400, GLY 4450, GLY 5425 or permission of the instructor.

GLY 6447 Advanced Topics in Structural Geology and Tectonics (3). Detailed exploration of selected research topics in structural geology and tectonics. Prerequisites: GLY 5408 or permission of the instructor.

GLY 6448 Stress in the Earth's Crust (3). The distribution and magnitude of stress in the earth's crust, laboratory derived values for earth stress, in situ stress measurements, regional stress patterns and sources of stress in the lithosphere. Prerequisites: GLY 4400, GLY 4450, GLY 5425 or permission of the instructor.

GLY 6468 Paleomagnetism (3). Physics of rock and mineral magnetism, geomagnetism and paleomagnetism; field and laboratory methods, geomagnetic field behavior, magnetostratigraphy, apparent polar wander. Prerequisites: GLY 4400, GLY 3202 or permission of the instructor. Corequisite: GLY 6468L.

GLY 6468L Paleomagnetism Laboratory (1). Physics of rock and minerals magnetism, geomagnetism and paleomagnatism; field and laboratory methods, geomagnetic field behavior, magneostratigraphy, apparent polar wander. Prerequisites: GLY 4400, GLY 3202 or permission of the instructor. Corequisite: GLY 6468.

GLY 6485 Physics of the Earth (3). Properties and dynamics of the Earth's interior studied from a physical perspective. Topics include heat flow, fluid flow, earthquake seismology. Prerequisites: GLY 4450 and MAC 2313.

GLY 6496 Advanced Topics in Geophysics (3). Discussion of research projects and current literature in geophysics. Prerequisite: GLY 5495.

GLY 6517 Basin Analysis (3). Analysis of sedimentary basins based on their origin, paleogeographic evolution and tectonic setting. Emphasis is placed on the tectonic evolution and economic potential of sedimentary basins.

GLY 6517L Basin Analysis Lab (1). Analysis of different types of sedimentary basins using a case history approach. Corequisite: GLY 6517.

GLY 6595 Topics in Sedimentology (3). Oral presentation by students of research projects and survey of relevant literature with reports by members of the seminar. Prerequisite: GLY 5346.

GLY 6626 Stratigraphic Micropaleontology: Foraminifera (3). Nomenclature, taxonomy, and biostratigraphy of Cretaceous and Cenozoic planktonic foraminifera. Studies of stratigraphically important taxa from Caribbean land sections, piston cores, and DSDP/ODP sites. Prerequisites: GLY 5621 or permission of the instructor.

GLY 6627 Stratigraphic Micropaleontology: Radiolaria (3). Nomenclature, taxonomy and biostratigraphy of Cretaceous and Cenozoic radiolaria. Studies of stratigraphically important taxa using Caribbean land sections, piston cores, and DSDP/ODP sites. Prerequisites: GLY 5621 or permission of the instructor.

GLY 6628 Stratigraphic Micropaleontology: Calcareous Nannofossils (3). Nomenclature, taxonomy, and biostratigraphy of triassic to recent nannofossils. Intensive training of identification of marker taxa using land and DSDP/ODP sites. Prerequisites: GLY 5621 or permission of the instructor.

GLY 6690 Topics in Paleontology (3). Oral presentation and discussion of current research projects and relevant literature, with reports by members of the seminar. Prerequisites: GLY 5608 or permission of the instructor.

GLY 6809 Hydrothermal Geochemistry (3). The mineralogy, thermodynamics, chemistry and isotope chemistry of hydrothermal and geothermal systems, with an emphasis on the transport of solutes in hydrothermal solutions and ore-forming processes. Prerequisites: GLY 5246, CHM 3400 or permission of the instructor.

GLY 6817 Topics in Economic Geology (3). Current research directions in Economic Geology and Geochemistry, including ore formation processes, exploration and remediation.

GLY 6862 Numerical Methods in the Earth Sciences (3). Numerical techniques used by geoscientists, with emphasis on finite-difference and finite-element techniques to solve equations governing fluid flow and mass transport in geological systems. Prerequisites: MAP 2302, GLY 5827 and knowledge of one programming language or permission of the instructor.

GLY 6896 Advanced Topics in Hydrology (1-3). Research-oriented seminar course involving analysis of several contemporary topics chosen from the current literature in hydrology. Specific topics vary. May be repeated. Prerequisites: GLY 5827 and one other graduate level hydrology/hydrogeology course, or permission of the instructor.

GLY 6910 Supervised Research (1-12). Research apprenticeship under the direction of a professor or a thesis advisor. Prerequisites: Full graduate admission and permission of the instructor.

GLY 6941 Supervised Teaching in the Geosciences (1). Teaching a geological discipline under the supervision of departmental faculty. Prerequisite: Graduate standing.

GLY 6945 Proposal Writing (1). A graduate course aimed at introducing students to grant proposal writing.

GLY 6949 Professional Internship in Earth Science (1-3). Semester or summer term of supervised work at an approved government or industry laboratory or field station. Prerequisite: Graduate standing.

GLY 6966 Master's Comprehensive Examination (0). Oral and written examinations on knowledge in general geology and the student's field of concentration. Schedule to be selected in consultation with the Graduate Committee. Prerequisite: Advanced graduate standing.

GLY 6971 Master's Thesis (1-12). Field and/or laboratory research project toward thesis. Selected in consultation with major professor. Prerequisite: Permission of the major professor.

GLY 7980 Ph.D. Dissertation (1-12). Field and/or laboratory research directed towards completion of the doctoral dissertation. Selected in consultation with major professor. Prerequisite: Permission of the Major Professor and Doctoral Candidacy.

ISC 5150 Introduction to Research in Earth and Environmental Sciences (2). Introduction to research in Earth and Environmental Sciences: nature of scientific inquiry, development of research projects, data analysis, publication and presentation of research results.

ISC 5151 Earth and Environmental Graduate Seminar (1). Weekly seminar emphasizing research- and practice-oriented guest speaker series. Critical examination of current research topics by students, faculty, visiting speakers. Brief student reports. Prerequisite: Permission of the instructor.

ISC 6152 Earth and Environment Advanced Graduate Seminar (1). Weekly seminar emphasizing research- and practice-oriented guest speakers. Critical examination of current research topics by students, faculty, visiting speakers. Student research presentations. Prerequisite: ISC 5151.

ISC 6153 Environments of a Changing Planet (3). Interactions of physical, chemical and biological components and processes that have led to recent past and present environmental development, and possible future changes.

ISC 6155 Supervised Teaching in Earth and Environment (1). Instructional methods of teaching a course in an earth and environment discipline under the supervision of departmental faculty. Courses can include undergraduate laboratory courses. Prerequisite: graduate standing.

MET 5016 Physics of Atmospheres I (3). A quantitative examination of atmospheric radiation, thermodynamics and clouds, with a brief introduction to dynamics and applications to weather and climate. Prerequisites: Senior or first-year graduate student in physical science, computer science, or engineering.

MET 5017 Physics of Atmospheres II (3). Continuing examination of atmospheric dynamics, waves and inatabilities, with applications to models, weather and climate. Prerequisites: Senior or first-year graduate student in physical science, computer science, or engineering.

MET 5105 Planetary Climate Change: Processes and Impacts (3). Interdisciplinary study of the reasons the Earth's climate is changing, the climates past and expected future variations, impacts on the human and natural environments, and ways to reduce them. Prerequisite: Graduate standing.

MET 5135 Climate Dynamics (3). Global energy cycle, atmospheric radiative transfer, surface energy balance, hydrologic cycle, atmosphere/ocean circulation, climate feedbacks, natural variability, anthropogenic climate change. Prerequisite: Graduate standing.

MET 5305 Boundary Layer Meteorology (3). General survey of boundary meteorology. Topics include atmospheric boundary layer, (ABL), role in exchange and circulation, use in interpreting wind, temperature, and moisture distribution, hurricane boundary layer wind, and turbulent structures. Prerequisites: PHY 2048 and PHY 2049.

MET 5311 Dynamic Meteorology I (3). To study atmospheric phenomena on a rotating planet. It intends to lead towards an understanding of the theories of the atmospheric motion by applying concepts of Math., thermodynamics, and dynamics. Prerequisites: PHY 2048, PHY 2049.

MET 5312 Atmospheric Dynamics II (3). Second graduate-level course in Atmospheric Dynamics. Topics include 2 and 3-dimensional Rossby waves, baroclinic and other instabilities, ageostrophic motions, and general circulation. Prerequisites: Atmospheric Dynamics I and graduate standing in Atmospheric Sciences.

MET 5355 Severe and Hazardous Weather (3). Focuses on introducing thunderstorms, squall lines, mesoscale convection systems, and their interactions with synoptic scale weather. Prerequisites: MET 3003 or permission of the instructor.

MET 5365 Techniques for Earth System Modeling and Research (3). Model development for meteorology, hydrology, and geophysics using Python and FORTRAN. Includes model formulation, architecture and approximations, and synthesis of results. Prerequisite: Permission of the instructor.

MET 5412 Remote Sensing in Meteorology (3). An overview of satellite and radar remote sensing including the principles of atmospheric radiative transfer, the retrieval of atmospheric variables, and basic principles of interpretation. Prerequisites: PHY 2048 and PHY 2049.

MET 5525 Advanced Weather Forecasting (2). Graduate-level forecasting to guide setting of watches and warnings. Includes map discussions, analysis of current weather, and prediction for aviation, severe weather, and flash floods. Prerequisite: MET 3502 and MET 3502L or MET 5561 and MET 5561L.

MET 5530 Hurricane Meteorology and Impacts (3). Hurricane formation, motion, and impacts on the graduate level. Adds critical reading of the scientific and disaster literatures and quantitative problem sets to the undergraduate experience. Prerequisite: Permission of the instructor.

MET 5533L Weather Discussion and Analysis (1). Focus on analysis and forecasting of middle-latitude and tropical weather systems. Students will be required to give weather forecast discussions and to work on a research project. Prerequisites or Corequisites: MET 3502 or permission of the instructor.

MET 5561 Midlatitude Synoptic Meteorology (3). Focus on analysis and forecasting of middle-latitude weather systems. Examine the structure and dynamic of these systems by integrating weather observation with the current state of dynamic theory. Prerequisites: MET 3003 or permission of the instructor.

MET 5561L Midlatitude Synoptic Meteorology Lab (1). Focus on analysis and forecasting of middle-latitude weather systems. Develop an understanding of the weather forecasting process, and gain experience in communicating weather forecasts. Prerequisites: MET 3003 or permission of the instructor.

MET 5707 Operational Meteorology Research I (3). Training at NOAA's Miami facilities, focusing in upper air observations, in preparation for careers in forecasting. Offered for Pass/Fail only. Prerequisites: Graduate standing in Atmospheric Science and permission of the instructor.

MET 5708 Operational Meteorology Research II (3). Second semester training at NOAA's Miami facilities, focusing on use of AWIPS system and forecasting procedures, in preparation for careers in forecasting. Offered for Pass/Fail only. Prerequisites: MET 5707 and permission of the instructor.

MET 6971 Thesis (1-12). Individual graduate-level research supervised by a professor in the student's field of specialization or interest, leading toward a completed thesis. Prerequisites: Graduate standing in Geosciences and satisfactory progress toward the degree.

MET 7980 Ph.D. Dissertation (1-9). Continuing graduate-level research under the supervision of the student's advisor doctoral committee. Writing, revision, defense, and completion of a doctoral dissertation. Prerequisites: Graduate standing in Geosciences and satisfactory progress toward the doctoral degree.

OCC 6413 Biogeochemistry of Estuaries and Coasts (3). A survey of estuarine and coastal ecosystems with particular emphasis on how physical, geological, chemical, and biological processes act to regulate ecosystem function. Prerequisites: PCB 3043, EVR 3013 or equivalent.

OCG 6105 Advanced Marine Geology (3). OCG 6105L Advanced Marine Geology Lab (1). Application of geophysical and geological data to the interpretation of the earth’s crust under the oceans, including the data provided by the Deep-Sea Drilling Project, dredging, piston-coring, gravity magnetism, and seismicity. Special emphasis will be given to the genesis and evolution of the Atlantic and Caribbean margins, and their potential for oil resources. Prerequisites: GLY 4730 or permission of the instructor.

OCG 6664 Paleoceanography (3). Mesozoic/Cenozoic development of the major ocean basins, their circulation and sedimentation history. Use of micropaleontologic and stable isotopic techniques in paleoceanographic analysis. Prerequisites: GLY 4730 or permission of the instructor.

SWS 5305 Advanced Soil Resources Analysis (3). A review of soil science concepts: analysis of physical and chemical properties of soils and nutrient cycling, emphasizing the soils of South Florida. Prerequisites: BSC 2010, BSC 2011, CHM 2210, CHM 2211; or permission of the instructor.

English

Ana Luszczynska, *Associate Professor and Chairperson*
Lynne Barrett, *Professor*
Heather Blatt, *Associate Professor and Director Literature and Film Program*
Richard Blanco, *Associate Professor*
Nathaniel Cadle, *Associate Professor*
Phillip Carter, *Associate Professor and Director of the Center for the Humanities in the Urban Environment*
Anne Margaret Castro, *Assistant Professor*
Cynthia Chinelly, *Teaching Professor and Associate Director of the Writing and Rhetoric Program*
Shawn Christian, *Associate Professor*
Maneck Daruwala, *Associate Professor*
Debra Dean, *Professor*
Vernon Dickson, *Associate Professor*
John Dufresne, *Professor*
Denise Duhamel, *Professor*
Ming Fang, *Associate Teaching Professor*
Paul Feigenbaum, *Associate Professor*
Michael Gillespie, *Professor*
Michael Grafals, *Assistant Teaching Professor*
Kimberly Harrison, *Professor and Director of Writing Programs*
Bruce Harvey, *Associate Professor*
Tometro Hopkins, *Associate Professor*
Amy Huseby, *Assistant Teaching Professor*
Glenn Hutchinson, *Associate Professor and Director of Center for Excellence in Writing*
Kenneth Johnson, *Associate Professor*
Mark Kelley, *Assistant Professor*
Shewonda Leger, *Assistant Professor*
Campbell McGrath, *Professor*
Ana Menendez, *Associate Professor*
Asher Milbauer, *Professor and Director of Exile Studies Certificate Program*
Jason Pearl, *Associate Professor*
Heather Russell, *Professor and Senior Associate Dean for the School of Environment, Arts and Society (SEAS)*
Martha Schoolman, *Associate Professor and Director of Graduate Program in English*
Vanessa Kraemer Sohan, *Associate Professor and Associate Director of Graduate Program in English*
Lester Standiford, *Professor and Director of Creative Writing Program*
Andrew Strycharski, *Associate Teaching Professor and Director of the Film Certificate Program*
James Sutton, *Associate Professor*
Luke Thominet, *Assistant Professor*
Ellen Thompson, *Professor*
Rhona Trauvich, *Associate Teaching Professor*
Julie Marie Wade, *Associate Professor*
Donna Weir-Soley, *Associate Professor and HSI Pathways to the Professoriate Coordinator*
Mehmet Yavas, *Professor*

The English Department offers three graduate degree programs: Creative Writing, Linguistics and an English degree which offers a choice of tracks, Literature or Writing or Rhetoric. The descriptions of the Creative Writing and the Linguistics programs can be found under their respective headings in this catalog.

Master of Arts in English

To be admitted into the Master's program in English, a student must meet the University's graduate admission requirements and have:

1. A minimum 3.0 undergraduate grade point average;
2. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
3. Applicant Statement /Letter of Intent that, in no more than 1000 words, describes the relevant academic, personal and/or professional experiences compelling you pursue advanced study in English. If you were not an English major in college, please take care to describe your qualifications for advanced study in English.
4. Two letters of recommendation from undergraduate or graduate literature, and/or writing and rhetoric professors;
5. Additional Requirements: Minimum 10-page writing sample demonstrating your advanced skills in literary or rhetorical research and analysis
6. Optional Requirements: Statement of purpose indicating a desire to be considered for a teaching assistantship.

Common Degree Requirements

The Master's degree program consists of 30 semester hours of course work at graduate level (course numbers 5000 or above) and a thesis (6 credits). A maximum of six graduate semester hours may be transferred into the program subject to the approval of the graduate committee.

Required Courses

ENG 5048	Literary Theory	3
ENC 5703	Rhetorical Traditions	3

Thesis

LIT 6970	Master's Thesis	6

The student must complete a research thesis. The topic must be approved by the faculty member who will supervise the research, and then approved by the Thesis Committee. The thesis will be accepted only after being read and approved by a Thesis Committee. An oral defense is required before the Thesis Committee.

Students in the program may choose between two tracks, Literature or Writing and Rhetoric. The track-specific requirements are as follows:

Literature Track

Common Core of Required Courses (6 credits)
Taken by both Literature and Writing and Rhetoric Track students.

ENC 5703	Rhetorical Traditions	3
ENG 5048	Literary Theory	3

Thesis/Capstone (6 credits)

LIT 6970	Master's Thesis	6

Electives (24 credits)
Students may take a maximum of 24 semester hours (5000 or 6000) as appropriate to their graduate track

(Writing and Rhetoric or Literature). Students should consult with a faculty advisor in their track, or with the Graduate Program Director.

Writing and Rhetoric Track

Common Core of Required Course (6 credits)
Taken by both Literature and Writing and Rhetoric Track students.

ENC 5703	Rhetorical Traditions	3
ENG 5048	Literary Theory	3

Thesis/Capstone (6 credits)

LIT 6930	Master's Thesis	6

Writing Program Electives (minimum 12 credits)

ENC 5235	Grant Writing	3
ENC 5432	Document and Visual Design for Professional Writers	3
ENC 5494	Writing Center Theory & Practice	3
ENC 5752	Women's Rhetorics	3
ENC	Special Topics in Composition	3
ENC 6261	Theories of Professional and Technical Writing	3
ENC 6702	Composition Theory and Practice	3
ENC 6734	Theories of Multilingual Writing	3
ENC 6736	Writing Across Conventions	3
ENG 6935	Special Topics in College Pedagogy	3
ENG 6937	Teaching College Composition	3
ENG 6942	College Composition Practicum	1

English Department Electives (9-12 credits)
Students in the Writing track may take up to 6 elective credits within the English Department:
AML - American Literature; CRW-Creative Writing; ENC – Writing and Rhetoric; ENG-English-General; ENL-English Literature; LIN - Linguistics; LIT-Literature

Electives Outside the English Department (0-3 credits)
Students have the option to take up to 3 elective credits outside of the department with approval from the Associate Director of the English MA.

Course Descriptions

Definition of Prefixes

AML - American Literature; CRW-Creative Writing; ENC-Writing & Rhetoric; ENG-English-General; ENL-English Literature; LIN - Linguistics; LIT-Literature.

AML 5305 Major American Literary Figures (3). Each section will consider the lifework of several authors such as Hawthorne, Melville, Whitman, Twain, James, Faulkner, Mailer, Wright, Baldwin. May be repeated.

AML 5505 Periods in American Literature (3). The literature and criticism of one specified period of American literature, such as Colonial, Federal, Transcendental, Antebellum, and Twentieth Century. May be repeated with change of period.

CRW 6806 Teaching Creative Writing (3). The course will prepare graduate students (and teachers from secondary schools and community colleges) to teach introductory classes and workshops in Creative Writing. Students will observe and participate in the department's CRW 2001 courses. Prerequisites: CRW 3111, 3311, or graduate standing, or permission of instructor.

ENC 5235 Grant Writing (3). Focus on rhetorical context of grant writing and the application of rhetorical concepts to the discourse of grant writing.

ENC 5432 Document and Visual Design for Professional Writers (3). This course examines the fundamental principles of visual design while also attending to the practical skills of implementing those principles in written documents.

ENC 5494 Writing Center Theory and Practice (3). In this course, we will read about writing center theory and the composing process.

ENC 5703 Rhetorical Traditions (3). In this course, we will read foundational texts and theories of the Western rhetorical tradition and beyond, from antiquity to the present day.

ENC 5752 Women's Rhetorics (3). In this class, we will look at primary and secondary texts by historical and contemporary women rhetors in order to define and apply feminist rhetorical practice

ENC 5935 Special Topics in Composition (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

ENC 6261 Theories of Professional and Technical Writing (3). This course explores central theories of technical writing and the implications of those theories for professional practice.

ENC 6702 Composition Theory and Practice (3). Studies historical and contemporary trends in the scholarship of rhetoric and composition

ENC 6734 Multilingual Matters: Theories of Multilingual Writing (3). In this course, we will read theories for engaging multilingual writers and multilingual writing in research, teaching, and service in the academy.

ENC 6736 Writing Across Conventions (3). In this course, we will study composers who work within/across multiple languages, modes, genres, and media in ways that are either not accepted or unexpected in "standard" academic writing.

ENG 5009 Literary Criticism and Scholarship (3). Techniques and goals of humanistic research, bibliography, and critical commentary.

ENG 5018 Practical Criticism (3). Applies various critical theories -e.g. the formalistic, historical, structural, archetypal, sociological, etc. -to specific literary productions.

ENG 5026 Advanced Textual Reading (3). The study of selected texts for interpretation from different critical and theoretical perspectives. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

ENG 5048 Literary Theory (3). An introduction to issues in the nature of literature, the philosophy of criticism, and methods of interpretation. The theoretical foundations for literary study. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

ENG 5058 Form and Theory of Contemporary Literature (3). Various approaches and theories of practice in the major genres of imaginative writing,

including development and articulation of the creative esthetic. May be repeated. Prerequisite: Permission of the instructor.

ENG 5907 Independent Study (VAR). Individual conferences, assigned readings, reports on independent investigations, with the consent of the chairperson.

ENG 5950 Special Project in English (1-3). Pursuit of projects involving relationship of profession to university and/or community and/or research issues in pedagogy, literature, or other areas. Prerequisites: Consent of Graduate Director or Department Chair. Corequisite: Consent of project supervisor.

ENG 5971 Thesis and Dissertation Workshop (3). A workshop providing practice in the type of writing, research, and analytical skills required for successful graduate study. Prerequisite: Graduate standing.

ENG 6909 Independent Study (VAR). Individual conferences, assigned readings, reports on independent investigations, with the consent of the Chairperson.

ENG 6935 Special Topics in College Pedagogy (3). The pedagogy of teaching a designated area of college and university English, such as Shakespeare, American literature, film studies, creative writing, or linguistics. Course content and organization to be determined by the individual professor. Course does not meet certification requirements.

ENG 6937 Teaching College Composition (3). A seminar-workshop introducing the pedagogy of academic and professional writing courses at the university and college level, to include traditional rhetoric, writing as process, the modes of discourse, and post-structuralist theory. Course does not meet certification requirements. Prerequisite: Graduate standing. Corequisite: College composition practicum.

ENG 6942 College Composition Practicum (1). Practical experience in the teaching of English at the university and college level through supervised activities to include tutorials, evaluating, and commenting on student essays, supervised classroom discussion and teaching. Course does not meet certification requirements.

ENL 5220 Major British Literary Figures (3). Each section will consider the lifework of an author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

ENL 5505 Periods in English Literature (3). The literature and criticism regarding one specified period of English Literature, such as Medieval, Renaissance, Victorian, Twentieth Century, and Contemporary. May be repeated with change of period.

LIN 5019 Metaphor, Language, and Literature (3). Examines nature of metaphor as a cognitive phenomenon; how we use metaphor to conceptualize basic physical and cultural notions; role of cognitive metaphor in literature. Prerequisites: LIN 3013 or LIN 5018.

LIN 5211 Applied Phonetics (3). Study of sounds and suprasegmentals of English. Comparison of phonetic features of English with those of other languages. Universal constraints and markedness in learning second/foreign language pronunciation. Prerequisites: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 5626 Language Acquisition and Processing in Bilinguals (3). This course covers language acquisition, interaction, and processing in bilingual children and adults, language and cognition in bilinguals, and issues of assessment of bilinguals. Prerequisites: LIN 5018 or equivalent.

LIN 6084 Research Methods and Research Design in Linguistics (3). Introduction to a range of theoretical issues addressed and practical methods used in linguistic studies. Prerequisite: LIN 5715.

LIN 6165 Field Methods (3). Elicitation, recording and analysis of linguistic data in field research. Prerequisite: LIN 5018.

LIN 6226 Phonetics II (3). Acoustic and auditory phonetics. Cross-language speech perception. Feature systems and place of articulation. Stress and rhythm. Experimental phonetics. Prerequisite: LIN 5206.

LIN 6336 Phonology II (3). Optimality in phonological theory. Syllable structure and prosody. Licensing and underspecification in OT. Phonological acquisition and disorders in OT. Can OT account for phonological opacity? Prerequisite: LIN 6323.

LIN 6709 Research Methods in Psycholinguistics and Bilingualism (3). Analysis of the conduct of research in psycholinguistics and bilingualism and the methods used. Corequisite: LIN 5015 or equivalent.

LIN 6773 Introduction to Computational Linguistics (3). Introduction to basic programming using the R programming language and regular expressions.

LIN 6796 Neurolinguistics (3). Exploration of the neural basis for the production and acquisition of language, including multilingual populations.

LIN 6910 Research Project for Publication I (3). Students carry out a comprehensive research project for publishable standard. For Linguistics MA and PhD students, for the second year Research Paper for Publication. May be repeated. Prerequisite: LIN 6085.

LIN 6911 Doctoral Research Project for Publication (3). Students conduct an in-depth research project as one of the qualifying steps completed in the third year of PhD studies to proceed to the dissertation project for the PhD. May be repeated. Prerequisites: LIN 6085; LIN 6910.

LIN 6946 Practicum (1-2). Pedagogical techniques, syllabus construction, responding to student questions, fostering student participation, collaborative learning, use of technology in the classroom. Prerequisite: A minimum of 18 graduate credit hours completed in Linguistics.

LIT 5358 Black Literature and Literary/Cultural Theory (3). Examines 20C. black literary critical thought. Students interrogate cultural theories and literary texts from African, Caribbean, African-American, Black British and Afro-Brazilian communities. Prerequisite: Graduate standing.

LIT 5359 African Diaspora Women Writers (3). Study of black women writers from throughout the Diaspora from the early 19th century to present. Prerequisite: Graduate standing.

LIT 5363 Literary Movements (3). Individual sections will study the authors, works, and audiences involved in such phenomena as Humanism, Mannerism, Romanticism,

Symbolism, the Harlem Renaissance, and others. May be repeated.

LIT 5405 Literature, Society, and Language (3). This seminar explores language's relationship to social formation, specifically as it applies to the relationship between literature and social groups and institutions. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 5426 Authors in their Times (3). A focus on one or more designated authors and the biographical, political and historical context in which they wrote, using current critical and historical approaches. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 5486 Literature: Continuity and Change (3). Explores the development of a particular literary genre, ideological concept, or cultural tradition over a broad period of time. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 5487 Texts and Culture (3). The study of the relationship between specified texts and a historically, socially, or conceptually defined culture, such as Vietnam War Narratives, Jewish Literature, or Postmodernism. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 5556 Feminist Theory (3). Course examines central concepts in feminist critical thought from a variety of disciplinary perspectives to address gender oppression at the intersection of sexuality/ race/ class/ ethnicity/ ability.

LIT 5934 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

LIT 6934 Special Topics (3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. May be repeated.

LIT 6935 Master's Colloquium (3). Individual sections study a specific literary topic, selected and presented jointly by several faculty members. May be repeated. Prerequisites: Admission to the graduate program in English or by permission of the instructor.

LIT 6970 Master's Thesis (1-6). A thesis is required of all graduate students of English, to be written in the final semester done under the supervision of a faculty member. Prerequisites: Admission to the graduate program in English and by permission of the supervising faculty.

Liberal Studies

Wanda Raiford, *Associate Teaching Professor, Department of English and Director, Liberal Studies*
Vanessa Sohan, *Associate Professor, Department of English, Writing and Rhetoric Program and Associate Director, Liberal Studies*
Tempestt Morgan, *Program Coordinator, Liberal Studies*

Course Descriptions

Definition of Prefixes

IDS – Interdisciplinary Studies.
F-Fall semester offering; S-Spring semester offering

IDS 6931 Great Ideas Seminar: The Age of Science (3). Great ideas from the natural sciences. Study of the historical development, the evidential basis, and the broader implications of those ideas. Reflection on the nature and methods of modern science. Prerequisite: Graduate standing.

IDS 6937 Great Ideas Seminar: Special Topics (3). Intensive interdisciplinary investigation of a single great idea such as natural selection or infinity. Study of that idea's cross-disciplinary development, its impact, and its uses and misuses. Prerequisite: Graduate standing.

IDS 6938 Great Ideas Seminar: Human Nature (3). Great religious, philosophical, and scientific ideas about human nature. Discussion of the view that human beings have no nature. Study of such thinkers as Confucius, Plato, Darwin, Freud, Skinner, and Sartre. Prerequisite: Graduate standing.

IDS 6939 Great Ideas Seminar: Politics and Society (3). Great ideas in political and social thought from Plato to the present. Topics include political obligation, the nature of the state, social and economic justice, social contract, liberty, the rule of law, and community. Prerequisite: Graduate standing.

IDS 6972 Master's Essay (1-3). For students working on a master's essay. Oral presentation required. Prerequisite: All other coursework for the Master of Arts in Liberal Studies Degree.

IDS 6973 Master's Thesis (1-6). For students working on a master's thesis. Prerequisites: Graduate standing and permission of the instructor.

Linguistics

Shawn Christian, *Interim Program Director, Chairperson and Associate Professor, English*
Melissa Baralt, *Associate Professor, Modern Languages*
Lynn Berk, *Professor Emerita, English*
Jean-Robert Cadely, *Associate Professor, Modern Languages*
Phillip M. Carter, *Associate Professor, English*
Tometro Hopkins, *Associate Professor, English*
John Jensen, *Professor Emeritus, Modern Languages*
Yaobin Liu, *Associate Program Director, Assistant Teaching Professor, English*
Peter A. Machonis, *Professor, Modern Languages*
Ana Roca, *Professor Emerita, Modern Languages*
Ellen Thompson, *Professor, English*
Mehmet Yavas, *Professor, English*

Master of Arts in Linguistics

Admission Requirements

Applicants must meet the University's Graduate School general admissions requirements; GPA of minimum 3.0, two letters of recommendation, and a statement of purpose on the reasons for pursuing an M.A. in Linguistics. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL), for the International English Language Testing System (IELTS), or for the Pearson Test of English (PTE). A total score of 100 on the iBT TOEFL (equivalent to 600 on the paper-based version of the TOEFL), or a score of 6.5 on the IELTS, or a minimum score of 53 on the PTE is required.

Degree Requirements

The Master of Arts in Linguistics requires 36 graduate hours in Linguistics. Twenty-one of the 36 hours are in core required courses, the remainder in electives. In addition to maintaining an overall 3.0 average in all courses, students must also obtain a minimum of a 'B' in each of the required courses ('B-' is not acceptable in these courses) and a minimum of a 'C' in each elective course ('C-' is not acceptable). Course work is as follows:

Required Courses: 21 hours, made up of A and B:
A.

LIN 5018	Introduction to Linguistics*	3
LIN 5206	Phonetics	3
LIN 6085	Research Methods in Experimental Linguistics	3
LIN 6323	Phonology	3
LIN 6510	Syntax I	3
LIN 6805	Semantics	3

B. Linguistic Structure Course: 3 hours
A student must fulfill this requirement by taking a structure course on a non-Indo-European Language:

LIN 5108	Language Universals	3
	or	
LIN 5574	Languages of the World	3
	or	
LIN 6572	Structure of a Non-Indo-European Language	3

Electives
15 hours more of electives (or 18 more if LIN 5018 has been waived)

**LIN 5018 will only be required of those students who have insufficient background in Linguistics. Students with a prior course in linguistics may opt out of this requirement after passing a qualifying exam on the course materials.*

Masters Research Project

All students will be required to produce a research paper of publishable standard by the end of their second year. (LIN 6910, Research Project for Publication I, may be taken to facilitate completion of this requirement.) The research project must be presented in an open forum at the end of the year.

Combined BA/MA in Linguistics Degree Pathway

To be considered for admission to the combined Bachelor's/Master's degree pathway, students must have completed at least 75 credits in the Bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the Bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from his/her Bachelor's degree program. Upon conferral of the Bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Enrollment in undergraduate program in English, Spanish, French, or Portuguese at FIU.
2. Must have completed 75 credits.
3. Must have completed LIN 3013/LIN 3010 General Linguistics, LIN 4680 Modern English Grammar, FRE 3780 French Phonetics, or SPN 3733 General Linguistics with a grade of "A".
4. Current GPA of 3.2 or higher.
5. Two letters of faculty recommendation.
6. A 2-4 page statement of purpose, explaining academic plans and goals.

Recommended Graduate Courses for Undergraduates

The following graduate courses are recommended to BA students. In order to complete their degree requirements, students may double-count up to 12 graduate credits of coursework toward the Bachelor's and M.A. degrees:

A. English

LIN 5018	Introduction to Linguistics*
LIN 5107	History of the English Language
LIN 5108	Language Universals**
LIN 5206	Phonetics***
LIN 5501	English Syntax
LIN 5574	Languages of the World**
LIN 6510	Syntax I***

LIN 5715	Language Acquisition
LIN 6602	Language Contact
LIN 5601	Sociolinguistics
LIN 5825	Pragmatics
LIN 5934	Special Topics in Linguistics

B. Spanish

LIN 5018	Introduction to Linguistics*
SPN 5705	The Structure of Spanish
SPN 5845	History of the Language
LIN 5604	Spanish in the United States
SPN 5736	Spanish as a Heritage Language: Acquisition and Development
LIN 5603	Language Planning: Linguistic Minority Issues
LIN 5601	Sociolinguistics
LIN 5720	Second Language Acquisition
LIN 5825	Pragmatics
LIN 5934	Special Topics in Linguistics

C. French

LIN 5018	Introduction to Linguistics*
FRE 5855	Structure of Modern French
FRE 5845	History of Language I
FRE 5846	History of Language II
FRE 5508	La Francophonie
FRE 5735	Special Topics in Linguistics
HAI 5235	Haitian Creole Seminar
LIN 5601	Sociolinguistics
LIN 5825	Pragmatics
LIN 5720	Second Language Acquisition
LIN 5934	Special Topics in Linguistics

D. Portuguese

LIN 5018	Introduction to Linguistics*
LIN 5601	Sociolinguistics
LIN 5825	Pragmatics
LIN 5720	Second Language Acquisition
LIN 5934	Special Topics in Linguistics

*MA core requirement – prerequisite to all other course requirements
**Fulfills the 'structure course' requirement of MA
***Fulfills one of the core requirements of MA

M.A. Degree Requirements

1.Course Work (36 graduate credit hours)
Core Required Courses: (a minimum of "B" is required in core courses)

LIN 5018	Introduction to Linguistics	3
LIN 5206	Phonetics	3
LIN 6085	Research Methods in Experimental Linguistics	3
LIN 6323	Phonology	3
LIN 6510	Syntax I	3
LIN 6805	Semantics	3

One course about the structure of a non-Indo-European Language:

LIN 5108	Language Universals	3
	or	
LIN 5574	Languages of the World	3
	or	
LIN 6572	Structure of a Non-Indo-European Language	3

Electives: 5 LIN prefixed graduate courses (or 6, if LIN 5018 has been waived)
2. Master's Research Project/Comprehensive Exams
3. Awarding of Degrees
a) The BA will be awarded when all BA requirements of the designated undergraduate program are completed.
b) The MA will be awarded after all MA requirements of the Linguistics Program and the BA requirements are completed.

Course Descriptions

Definition of Prefixes

LIN – Linguistics; MHF-Mathematics: History and Foundations.
F-Fall semester offering; S-Spring semester offering

LIN 5017 Cognitive Linguistics (3). Explores the nature of human reason and categorization as revealed by language. Examines the role of metaphor, imagination, and bodily experience in human thought processes. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5018 Introduction to Linguistics (3). Introduction to linguistic theory and analysis, with special emphasis on the major components of languages and modern approaches to their analysis. (F)

LIN 5019 Metaphor, Language, and Literature (3). Examines the nature of metaphor as a cognitive phenomenon; how we use metaphor to conceptualize basic physical and cultural notions; role of cognitive metaphor in literature. Prerequisites: LIN 3013 or LIN 5018.

LIN 5107 History of the English Language (3). Study of the development of the grammar and vocabulary represented in samples of the English language from the 8th century to modern times. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent. (F)

LIN 5108 Language Universals (3). Universal properties of language from two major perspectives: those of Typologists and of Universal Grammarians. A variety of linguistic structures and theoretical explanations are examined. Prerequisites: LIN 3013, or LIN 3010, or LIN 5018, or the equivalent.

LIN 5146 Historical and Comparative Linguistics (3). The study of linguistic methodology for determining historical and genetic relationships among languages. Diachronic syntax and its methodology will be included. The relevance of historical and comparative linguistics to similar processes found in language acquisition and to socio-linguistics will be studied. Prerequisite: LIN 5206.

LIN 5206 Phonetics (3). The study of the articulatory mechanisms used in producing speech sounds and of their acoustic properties. Ear training in the phonetic transcription of speech sounds used in the world's languages. (F)

LIN 5207 Acoustic Phonetics (3). Introduction to principles of acoustic and instrumental phonetics, including the physics of speech sounds and use of the sound spectrograph and other instruments. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent, plus one additional course in phonetics or phonology. Co-requisite: One of the prerequisites may be counted as a co-requisite.

LIN 5211 Applied Phonetics (3). Study of sounds and suprasegmentals of English. Comparison of phonetic features of English with those of other languages. Universal constraints and markedness in learning second/foreign language pronunciation. Prerequisites: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 5431 Morphology (3). The study of linguistic methodology for determining the morphological and syntactic structures of languages. Distinct theoretical approaches to analysis will be emphasized. Recent developments in linguistics that bear on language-universal and language-specific aspects of morphology. Prerequisite: LIN 6323.

LIN 5501 English Syntax (3). This course will focus on syntactic analysis of English. Although the course itself is non-theoretical, it uses a variety of underlying theoretical approaches to train students in syntactic analysis.

LIN 5574 Languages of the World (3). Introduces the student to the richness of human linguistic diversity while demonstrating concurrently the underlying universality of human language. Prerequisites: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 5601 Sociolinguistics (3). Principles and theories of linguistic variation with special attention to correspondences between social and linguistic variables. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5603 Language Planning: Linguistic Minority Issues (3). Introduction to the field of language planning. Minority linguistic issues in developing and developed nations: official languages, endangered languages, and language as problem and/or resource. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5604 Spanish in the United States (3). An examination of the sociolinguistic research into Spanish in the U.S.: varieties of Spanish, language attitudes, language contact and change, and aspects of language use. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5613 Dialectology (3). The geography of language variation: linguistic geography, atlases, national and regional studies. Dialectology within a modern sociolinguistic framework; research approaches. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5625 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5626 Language Acquisition and Processing in Bilinguals (3). This course covers language acquisition, interaction, and processing in bilingual children and adults, language and cognition in bilinguals, and issues of assessment of bilinguals. Prerequisites: LIN 5018 or equivalent.

LIN 5689 Seminar in Lexicon Grammar (3). This course introduces students to research in Lexicon Grammar -- syntactic analyses based on a formal classification of large portions of the lexicon. Idioms and NLP applications are also discussed. Prerequisites: LIN 5018 and one structure course (e.g. LIN 5501, SPN 5705, or FRE 5855).

LIN 5715 Language Acquisition (3). The study of the processes underlying normal first-language acquisition. The focus is on the development of the subsystems of language (i.e., the phonological, morphological, syntactic, and semantic subsystems) in the child's growing command of his or her native language.

LIN 5720 Second Language Acquisition (3). Research, theories, and issues in second language acquisition. Topics include the Monitor Model, the role of the first language, motivation, age, individual differences, code-switching, and the environment; affective variables and attitudes.

LIN 5732 Speech Errors and Linguistic Knowledge (3). This course focuses on the nature of linguistic errors produced by speakers in their native languages. Students will read research on errors produced by adult native speakers of a language, on first-language errors of children, and on errors made by persons acquiring a second language.

LIN 5733 Methods of Teaching Accent Reduction (3). Theory and methods regarding the teaching of pronunciation to non-native speakers of a language. Hands-on practice in helping non-native speakers improve their pronunciation. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5734 Teaching Linguistics (1). Introduces graduate students to pedagogical issues and strategies in the teaching of linguistics. Topics include textbook selection, writing syllabi, student assessment, and professional ethics. Prerequisite: Graduate standing.

LIN 5748 Survey of Applied Linguistics (3). Application of linguistics to problems in many fields, such as literature, translation, criminal justice, speech pathology, computer science, communications, public policy, and language instruction. Prerequisites: LIN 3010 or LIN 3013 or LIN 5018 or the equivalent.

LIN 5760 Research Methods in Language Variation (3). Research in sociolinguistics, dialectology, bilingualism: problem definition, instrument design, data collection and analysis, including sampling techniques and statistical procedures. Prerequisites: LIN 5601, LIN 5625, LIN 5613 or other course in variation.

LIN 5825 Pragmatics (3). Study of the relationships between language form, meaning, and use. Special emphasis on speech act theory. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5934 Special Topics in Linguistics (3). Content to be determined by instructor. May be repeated for credit when content changes. Prerequisites: LIN 3010, LIN 3013, or LIN 5018.

LIN 6085 Research Methods in Experimental Linguistics (3). Focus: conducting experimental linguistic research and the range of methods used; formulating a research question, designing a study, collecting pilot data, and carrying out analyses on results. Prerequisites: LIN 3010, LIN 3013, or LIN 5018 or the equivalent.

LIN 6165 Field Methods (3). Elicitation, recording and analysis of linguistic data in field research. Prerequisite: LIN 5018.

LIN 6226 Phonetics II (3). Acoustic and auditory phonetics. Cross-language speech perception. Feature systems and place of articulation. Stress and rhythm. Experimental phonetics. Prerequisite: LIN 5206.

LIN 6323 Phonology (3). The study of phonological processes in languages and linguistic methodology for phonological analysis. Emphasis will be placed on recent theoretical questions concerning such issues as the abstractness of underlying forms, the naturalness of processes, and the relevance of markedness to a phonological description. Prerequisite: LIN 5206, Phonetics. (S)

LIN 6336 Phonology II (3). Optimality in phonological theory. Syllable structure and prosody. Licensing and underspecification in OT. Phonological acquisition and disorders in OT. Can OT account for phonological opacity? Prerequisite: LIN 6323.

LIN 6510 Syntax I (3). This course will expose students to the theoretical models on which much contemporary work in English grammar is based. Students will read works on selected topics such as structural linguistics, transformational grammar, and case grammar. Specific content may change from semester to semester. May be re-taken for credit when content changes. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent. (S)

LIN 6520 Syntax II (3). Study of recent developments in syntactic theory within generative grammar. This course builds on Syntax I and provides discussion of major issues in prominent literature in linguistic theory. Prerequisite: LIN 6510. (F)

LIN 6562 Discourse Analysis (3). The study of the organization of language above the sentence level, such as conversational interactions and written texts. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 6572 Structure of a Non-Indo-European Language (3). An in-depth study of the structure of a non-Indo-European language. The particular language to be studied will be varied from semester to semester. Course may be repeated. Prerequisites: LIN 5018, LIN 5206, LIN 5222, and a course in syntax.

LIN 6602 Language Contact (3). A study of the language changes that occur when two or more languages come into contact with one another. The course will also examine the characteristics of the individuals and communities involved in such contact.

LIN 6773 Introduction to Computational Linguistics (3). Introduction to basic programming using the R programming language and regular expressions.

LIN 6796 Neurolinguistics (3). Exploration of the neural basis for the production and acquisition of language, including multilingual populations.

LIN 6805 Semantics (3). The study of linguistic semantics. Language-universal and language-specific properties of the semantic structure of words and sentences will be considered. Students will be exposed to a variety of approaches to the study of meaning. Prerequisites: Introductory course in Linguistics or permission of the instructor. (F)

LIN 6905 Independent Study (VAR). This course is designed for students who wish to pursue specialized topics in advanced Linguistics: phonetics, phonology, morphology, syntax, semantics, psycholinguistics, historical linguistics, or language contact. Prerequisites: Introductory course in Linguistics and permission of the instructor.

LIN 6910 Research Project for Publication I (3). Students carry out a comprehensive research project for publishable standard. For Linguistics MA and PhD students, for the second year Research Paper for Publication. May be repeated. Prerequisite: LIN 6085.

LIN 6911 Doctoral Research Project for Publication (3). Students conduct an in-depth research project as one of the qualifying steps completed in the third year of PhD studies to proceed to the dissertation project for the PhD. May be repeated. Prerequisites: LIN 6085; LIN 6910.

LIN 6934 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.)

LIN 6937 Seminar in Linguistics (3). Topics vary each semester. Prerequisite: A previous course in the same sub-area of Linguistics.

LIN 6971 Thesis (1-6). Prerequisite: Completion of all other requirements for the M.A. degree in Linguistics.

MHF 5345 Mathematical Logic for Linguistics (3). Formal logical systems and applications. Propositional and predicate calculus, proof systems, completeness and incompleteness theorems, recursion. Chomsky hierarchy, formal grammars. Does not fulfill requirements for Mathematics Degree. Prerequisites: MAD 3512 or permission of the instructor.

School of Integrated Science and Humanity (SISH)

Dean **Walter Van Hamme**

The School of Integrated Science and Humanity (SISH) is a unique integration of academic departments, research centers and institutes created to deepen understanding and advance scientific inquiry in the areas addressing human health, well-being and society. SISH explores the critical concerns of our times through knowledge, discussion, and awareness of social and ethical issues in the sciences and humanities. Students and faculty are developing and implementing solutions to prevent disease, advance mental health treatment, and promote diversity and exploration throughout the world.

With an interdisciplinary approach to frontline research in the natural, biomolecular and behavioral sciences, SISH is building programs to advance science for humanity through outstanding scholarship and innovative teaching.

As part of the College of Arts, Sciences and Education, SISH offers academic degrees at all levels in Chemistry and Biochemistry, Mathematics and Statistics, Philosophy, Physics, and Psychology. The school is proud to house many of the university's prominent centers and institutes, including the Biomolecular Sciences Institute, Center for Children and Families, Center for Imaging Science, Center for Women's and Gender Studies, International Forensic Research Institute, and the Stocker AstroScience Center.

The school brings together exceptional faculty who are leaders in education, preparing today's students for the ever-growing opportunities in the fields listed above. See also **http://sish.fiu.edu**.

Chemistry and Biochemistry

Yong Cai, *Professor and Chairperson*
Irina Agoulnik, *Associate Professor, College of Medicine*
Jose R. Almirall, *Professor*
David A. Becker, *Associate Professor*
John Berry, *Associate Professor*
Konstantin Bukhryakov, *Assistant Professor*
Justin Carmel, *Assistant Professor*
Mrinal Chakraborty, *Assistant Teaching Professor*
David C. Chatfield, *Professor*
Christopher J. Dares, *Assistant Professor*
Anthony P. DeCaprio, *Associate Professor and Director of Forensic Science Certificate Program Chemistry and Biochemistry*
Lauryn DeGreeff-Silk, *Associate Professor*
Milagros Delgado, *Teaching Professor and Coordinator of Laboratories at BBC and Chemistry, Undergraduate Program Director*
Francisco Fernandez-Lima, *Professor and Director of the Advanced Mass Spectrometry Facility*
Kenneth G. Furton, *Professor, Executive Director, Global Forensic and Justice Center, FIU Chief Scientific Officer and Provost Emeritus Designee*
Piero R. Gardinali, *Professor and Director of SERC*
Megan Gillespie, *Assistant Teaching Professor*
Palmer Graves, *Professor Emeritus*
John Hackett, *Professor*
Rudolf Jaffe, *Professor Emeritus*
Jeffrey A. Joens, *Professor*
Konstantinos Kavallieratos, *Professor*
Elwood Kwong-Lam, *Assistant Teaching Professor*
John T. Landrum, *Professor Emeritus*
Watson J. Lees, *Associate Professor and Biochemistry Undergraduate Program Director*
Fenfei Leng, *Professor*
Chenzhong Li, *Professor, Department of Biomedical Engineering*
Joseph Lichter, *Associate Teaching Professor and Director of Pre-Health Professional Advising*
Yuan Liu, *Associate Professor and Biochemistry Graduate Program Director*
Ramon Lopez de la Vega, *Associate Professor and Associate Chair*
Bruce R. McCord, *Professor*
Alexander M. Mebel, *Professor*
Jaroslava Miksovska, *Associate Professor*
Robert Miller, *Assistant Teaching Professor*
Joong-ho Moon, *Professor*
Zaida Morales-Martinez, *Professor Emerita*
Kevin E. O'Shea, *Professor*
Natalia Soares Quinete, *Assistant Professor*
J. Martin E. Quirke, *Professor*
Raphael Raptis, *Professor*
Kathleen S. Rein, *Professor and Chemistry Graduate Program Director*
Barry P. Rosen, *Professor, College of Medicine*
Sandra Stojanovic, *Associate Teaching Professor and Coordinator of Organic Chemistry Laboratories*
Uma Swamy, *Teaching Professor and Coordinator of General Chemistry Laboratories*
Yuk-Ching Tse-Dinh, *Distinguished University Professor, Director, Biomolecular Sciences Institute*
Sonia M. Underwood, *Assistant Professor*
Xiaotang Wang, *Associate Professor*
Stephen Winkle, *Associate Professor*
Stanislaw F. Wnuk, *Professor and Associate Dean for Graduate Education, Robert Stempel School of Public Health*

Graduate Admission Requirements

1. A minimum undergraduate grade point average (GPA) of 3.0/4.0 in chemistry and cognate science courses and submission of official GRE scores are required. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
2. Applicants must send a statement of purpose and arrange to have sent transcripts and three letters of recommendation evaluating the applicant's potential for graduate work. Originals of these items must be sent to the FIU Admissions office as specified at **https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html**. Prospective candidates should refer to both the above website and **http://casgroup.fiu.edu/chemistry/** for details regarding the application procedure, Which must be completed on-line.
3. Formal admission to the M.S. and Ph.D. programs is granted by the Admissions Office. Awards of teaching assistantships are granted by the Graduate Program Director. Entrance is possible at the beginning of each semester (fall, spring, summer). For consideration for a graduate assistantship applicants need to apply for the Fall semester and all application materials should be received at least five months prior to the desired starting date.
4. Students whose undergraduate degree is not equivalent to the American Chemical Society certified Bachelor of Science degree in chemistry may be required to make up deficiencies. For example, depending on his or her area of specialization, a student may be required to make up deficiencies in quantum mechanics, instrumental analysis, or biochemistry by successfully completing Graduate Physical Chemistry II (CHM 5426), Graduate Analytical Methods (CHM 5150), or Graduate Biological Chemistry (CHM 5305) respectively.
5. Entering graduate students must pass two proficiency exams. Proficiencies are offered in organic, physical, inorganic, analytical, and biochemistry. One pass must be in either organic or physical chemistry; the other is open. The proficiency exams will be administered to incoming graduate students in the week before the fall and spring semesters. If a student fails to receive a pass in a proficiency exam, he or she must show proficiency by completing the appropriate course with a grade of "B" (3.0/4.0) or better. These courses are Graduate Organic Chemistry (CHM 5225), Graduate Physical Chemistry (CHM 5425), Graduate Analytical Methods (CHM 5150), and Graduate Biological Chemistry (CHM 5305). Students are expected to complete proficiency requirements by the end of their first semester.
6. Graduate students must maintain a GPA of 3.0/4.0. Only courses applicable to the graduate program,

excluding those for making up deficiencies or satisfying proficiencies, are counted in the GPA. If the cumulative GPA drops below 3.0 for one semester, the student will be placed on academic probation. A student who fails to raise his or her GPA to 3.0 or higher within one semester will be dismissed from the program.

7. Full-time graduate students generally serve as Teaching Assistants (TA's) in the Department of Chemistry and Biochemistry for their first semester. Ph.D. candidates must serve as TA's for at least one year except in unusual circumstances. TA's are awarded on a competitive basis, require a minimum cumulative GPA of 3.0, and can be continued for up to four years for Ph.D. students who maintain acceptable academic performance. A limited number of Graduate Research Assistantships (RA's) may be available.

Transfer of Credits and Financial Support

Transfer of credits. Students having an M.S. in chemistry may transfer as many as 36 credits towards their Ph.D. degree. However, no more than six of those credits will count toward fulfillment of the formal course work requirement. More than six credits for formal course work can be transferred only with special permission of the Graduate Committee, in which case the number of additional course work credits required will depend on the student's performance in courses, the date courses were completed, and the area of Ph.D. concentration.

Financial Support. Full-time graduate students in good academic standing are eligible for financial support. Teaching and research assistantships are available on a competitive basis. Inquiries concerning application to the program and availability of financial support should be directed to the Chemistry Graduate Program Director.

Master of Science in Chemistry

Degree Requirements

1. A minimum of 32 credits of course work. A grade of "C or higher must be obtained in all courses, and a cumulative grade point average of 3.0 or higher which must be maintained. The course work must include:
   a) At least nine credits of chemistry in at least two of the six major areas of chemistry (Analytical, Biochemistry, Environmental, Inorganic, Organic, and Physical) from the core listed below:

Core Courses (three credits each)

Analytical

CHM 5138	Advanced Mass Spectrometry
CHM 5156	Advanced Chromatography
CHM 5165	Chemometrics and Sampling
CHM 6157	Advanced Analytical Chemistry

Biochemistry

BCH 6108	Biochemical Techniques
CHM 6036	Advanced Biochemistry I
CHM 6037	Advanced Biochemistry II (Molecular Genetics)
CHM 5506	Physical Biochemistry

Environmental

CHM 5423	Atmospheric Chemistry
CHM 5765	Aquatic Chemistry
CHM 6281	Environmental Organic Chemistry
CHM 6340	Organic Geochemistry
OCC 5050	Chemical Oceanography
CHM 6088	Environmental Chemistry of Trace Elements

Inorganic

CHM 5251	Organometallic Chemistry
CHM 5440	Kinetics and Catalysis
CHM 5540	Group Theory in Chemistry
CHM 5650	Physical Inorganic Chemistry

Organic

CHM 5236	Spectroscopic Techniques and Structure Elucidation
CHM 5250	Organic Synthesis
CHM 5263	Physical Organic Chemistry

Physical

CHM 5423	Atmospheric Chemistry
CHM 5490	Physical Spectroscopy
CHM 5540	Group Theory in Chemistry
CHM 5586	Computational Chemistry
CHM 6461	Statistical Thermodynamics
CHM 6480	Quantum Mechanics

Courses not listed above may be counted as core course with prior departmental approval.

   b) At least six credits of additional graduate-level courses approved by the thesis committee in consultation with the Graduate Program Director with the following guidelines:

      1. The courses must be 5000 or 6000 level chemistry courses (CHM prefix) or approved cognates (up to a maximum of six credits).
      2. The following do not count toward satisfaction of this requirement: proficiency courses and courses taken to make up for undergraduate-level deficiencies in chemistry (including CHM 5150, CHM 5225, CHM 5305, CHM 5425, and CHM 5426); and courses corresponding to research, seminar, colloquium, supervised teaching, and thesis completion (CHM 6910L, CHM 6935, CHM 6936, CHM 6940, CHM 6970, and CHM 6971).

   c) Full-time graduate students are required to register for one credit of CHM 6940 (Supervised Teaching) each semester they serve as teaching assistants.
   d) Full-time graduate students are required to register for one credit of CHM 6935 (Graduate Seminar) or one credit of CHM 6936 (Chemistry Colloquium) each fall and spring semester.
   e) At least one credit of CHM 6936 (Chemistry Colloquium) is required. Each student must present a seminar on their proposed research at the colloquium for a letter grade in their second semester of graduate study.
   f) At least eight credits of CHM 6970 (Thesis Research) involving independent thesis research under the direction of a faculty member in the Department.
   g) At least two credits of CHM 6971 (Thesis) taken in the semester in which the M.S. thesis is to be defended.

2. Satisfactory public presentation and defense of a research thesis, evaluated by the student's Thesis

Committee. The Thesis Committee will consist of the research advisor and a randomly-assigned committee member appointed by the Graduate Program Director, both from the Department's graduate faculty, and one additional member with expertise in the student's research area. At least one committee member must be tenured in the Department. The Committee may include more members, but they will be non-voting.

Master of Science in Chemistry with Report Option

Degree Requirements

1. A minimum of 32 credits of course work. A grade of "C or higher must be obtained in all courses, and a cumulative grade point average of 3.0 or higher which must be maintained. The course work must include:
   a) At least nine credits of graduate-level CHM courses as core courses with the following requirements:
      i. The courses must be 5000 or 6000 level CHM courses.
      ii. The following do not count toward satisfaction of this requirement: proficiency courses and courses taken to make up for undergraduate-level deficiencies in chemistry (including CHM 5150, CHM 5225, CHM 5305, CHM 5425, and CHM 5426); and courses corresponding to research, seminar, colloquium, supervised teaching, and thesis completion (CHM 6910L, CHM 6935, CHM 6936, CHM 6940, CHM 6970, and CHM 6971).
   b) At least nine credits of additional graduate-level courses approved by the student's committee in consultation with the Graduate Program Director with the following guidelines:
      i. The courses must be 5000 or 6000 level chemistry courses or approved cognates.
      ii. The following do not count toward satisfaction of this requirement: proficiency courses and courses taken to make up for undergraduate-level deficiencies in chemistry (including CHM 5150, CHM 5225, CHM 5305, CHM 5425, and CHM 5426); and courses corresponding to research seminar, colloquium, supervised teaching, and thesis completion (CHM 6910L, CHM 6935, CHM 6936, BCH 7930, CHM 6940, CHM 6970, and CHM 6971).
   c) Full-time graduate students are required to register for one credit of CHM 6940 (Supervised Teaching) each semester they serve as teaching assistants.
   d) Full-time graduate students are required to register for one credit of CHM 6935 (Graduate Seminar) or one credit of CHM 6936 (Chemistry Colloquium) each fall and spring semester.
   e) At least one credit of CHM 6936 (Chemistry Colloquium is required. Each student must present a seminar on their proposed research at the colloquium for a letter grade.
   f) At least eight credits of CHM 6970 (Thesis Research) or CHM 7910 (Dissertation Research) involving independent research under the direction of a faculty member in the Department.
2. Satisfactory completion of a research report approved by the student's thesis/dissertation committee and the department's graduate program director. A submitted manuscript, a report written for the candidacy exam, or a stand-alone research report could satisfy the report requirement.

Combined BS/MS in Chemistry Degree Pathway

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Current enrollment in the Bachelor of Science program in chemistry at FIU.
2. Current GPA of 3.2 or higher.
3. Official GRE general test scores.
4. Three letters of recommendation.
5. Approval of the Chemistry Graduate Committee.

Completion Requirements

Completed Bachelor of Science degree in chemistry at FIU Required:

1. 9 credits (3 courses) selected from graduate chemistry core courses. Required courses must be completed with an average of "B" or higher, and only one course may receive a grade less than "B-".
2. Electives: 3 courses selected from the Chemistry Graduate Elective Offerings.
3. 9 credits of Thesis Research and 2 credits of Thesis. 1 credit of Colloquium.
4. Overlap: Up to 3 graduate level courses (9 credits) may be used to satisfy both the Bachelor's and Master's degree requirements.

Combined BS in Chemistry/MS in Forensic Science Degree Pathway

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the

student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Current enrollment in the Bachelor of Science program in chemistry at FIU.
2. Current GPA of 3.2 or higher.
3. Official GRE general test scores.
4. Three letters of recommendation.
5. Approval of the Chemistry Graduate Committee.

Completion Requirements

Completed Bachelor of Science degree in chemistry at FIU

Coursework

Required Courses:

BSC 5406	Forensic Biology
CHS 5542	Forensic Chemistry
CHS 5535	Forensic Analysis

1. Required courses must be completed with an average of “B” or higher, and only one course may receive a grade of less than “B-“.
2. Electives: 5 courses selected from the Forensic Science Graduate Elective Offerings.
3. 6 credits of Thesis Research and 1 credit of Thesis.
4. 1 credit of Colloquium.
5. Overlap: Up to 3 graduate level courses (9 credits) may be used to satisfy both the Bachelor’s and Master’s degree requirements.

Doctor of Philosophy in Chemistry

Degree Requirements

1. A minimum of 75 credits of course work. A grade of “C” or higher must be obtained in all courses, and a cumulative GPA of 3.0 or higher must be maintained. The course work must include:
   a. At least nine credits of chemistry courses, including courses from at least two of the six major areas of chemistry (Analytical, Biochemistry, Environmental, Inorganic, Organic, and Physical) selected from the core courses listed above (see M.S. in Chemistry 1a).
   b. At least nine credits of additional graduate-level chemistry courses approved by the dissertation committee in consultation with the Graduate Program Director. The guidelines listed above in sections 1b(1) and 1b(2) for the M.S. degree also apply to these courses.
   c. Full-time graduate students, prior to reaching candidacy, are required to register for one credit of CHM 6940 (Supervised Teaching) each semester they serve as teaching assistants.
   d. Full-time graduate students are required to register for CHM 6935 (Graduate Seminar) or one credit of CHM 6936 (Chemistry Colloquium) each fall and spring semester
   e. At least one credit of CHM 6936 (Chemistry Colloquium) is required. Each student must present a seminar on their proposed research at the colloquium for a letter grade by the end of their third semester of graduate study.
   f. At least eight credits of CHM 7910 (Dissertation Research) involving independent dissertation research under the direction of a faculty member in the Department are required.
   g. At least 15 credits of CHM 7980 (Ph.D. Dissertation) are to be taken after the student has advanced to candidacy.
2. Satisfactory completion of cumulative examinations. The student will begin taking the cumulative examinations after completing the proficiency requirements but no later than the beginning of the student’s second semester. Seven examinations, each lasting three hours, will be given per year. The student must pass four out of ten consecutively-offered exams for admission to candidacy.
3. Satisfactory presentation and defense of a Preliminary Oral examination. The preliminary oral examination occurs in the fifth semesters (excluding summers). The examination will be conducted by the Dissertation Committee, be based on the student’s dissertation research progress and future plans and should include at least one original aim conceived and developed independently by the student. The examination will include questions from the student’s major field and cognate fields. After fulfilling this requirement, passing the cumulative examinations, and completing all required course work, the student advances to candidacy.
4. Satisfactory public presentation and defense of a research dissertation, evaluated by the Dissertation Committee. The student’s Dissertation Committee will consist of the research advisor (a FIU graduate faculty member who holds dissertation advisor status), a member from outside the Department, or School, but within FIU, a randomly-assigned member appointed by the Graduate Program Director from the Department’s graduate faculty, and at least two additional committee members with expertise in the student’s research area. At least three members of the Dissertation Committee, including the major research advisor, must be graduate faculty members from the Department of Chemistry and Biochemistry, and at least two of these three members must be tenured. The Committee may include additional members, but they will be non-voting.
5. Award of an M.S. en route to Ph.D.: Individuals directly admitted into the Ph.D. program may apply to be awarded an M.S. degree in Chemistry. To be eligible students must have completed requirements of the MS in Chemistry with report option track. Upon certification by the student's advisor, dissertation committee, and the departmental graduate committee that these requirements have been met the student will be eligible to receive an M.S. in Chemistry with report option track.

Doctor of Philosophy in Chemistry with a Chemistry Education Track

Degree Requirements:

1. A minimum of 75 credits of coursework. A grade of "C" or higher must be obtained in all courses, and a cumulative GPA of 3.0 or higher must be maintained.

The coursework must include:

a. A minimum of twelve credits of chemistry courses, with a minimum of nine of these credits being Chemistry core courses. Students must select an area of concentration (Analytical, Biochemistry, Inorganic, Organic, Physical). Six credits of chemistry coursework must come from the area of concentration and six credits from outside the area of concentration.
b. At least nine credits of education research courses, including one course from each of the categories of courses listed below.

Foundations of Education Research:

EDF 6481	Educ. Research Methodology
SCE 7761	Research in Science Education

Quantitative Research Methods:

EDF 6472	Introduction to Data Analysis
STA 6166	Stat. Methods in Research I
STA 6167	Stat. Methods in Research II

Qualitative Research Methods:

EDF 6475	Qualitative Foundations in Educational Research

c. At least three credits of advanced methodology courses, dependent on the focus of the dissertation project. Suggested courses appear in the list below, but others can be approved of by the dissertation committee in consultation with the Graduate Program Director.

Advanced Methodology Courses:

EDF 7476	Advanced Methods of Qualitative Educational Research
EDF 6486	Advanced Data Analysis in Quantitative Educational Research
EDF 7489	Hierarchical Linear Modeling in Educational Research
STA 5507	Nonparametric Methods
STA 6244	Data Analysis 1
STA 6247	Data Analysis 2
STA 6505	Analysis of Categorical Data
STA 6746	Multivariate Statistical Analysis
STA 6990	Multivariate Analysis 1

d. Full-time graduate students, prior to reaching candidacy, are required to register for one credit of CHM 6940 (Supervised Teaching) each semester they serve as teaching assistants.
e. Full-time graduate students are required to register for CHM 6935 (Graduate Seminar), or one credit of CHM 6936 (Chemistry Colloquium) each fall and spring semester
f. At least one credit of CHM 6936 (Chemistry Colloquium) is required. Each student must present a seminar on their proposed research at the colloquium for a letter grade by the end of their third semester of graduate study.
g. At least eight credits of CHM 7910 (Dissertation Research) involving independent dissertation research under the direction of a faculty member in the Department are required.
h. At least 15 credits of CHM 7980 (Dissertation Research) are to be taken after the student has advanced to candidacy.

2. Satisfactory completion of cumulative examinations. The student will begin taking the cumulative examinations after completing the proficiency requirements but no later than the beginning of the student's second semester. Seven examinations, each lasting three hours, will be given per year. The student must pass four out of ten consecutively offered exams for admission to candidacy. At least three of the exams must be from their area of concentration.
3. Satisfactory presentation and defense of an original research proposal (on a topic not related to the student's specific doctoral research project) and a satisfactory completion of a Preliminary Oral examination. The original proposal presentation and preliminary oral examination occur in the fourth and fifth semesters, respectively (excluding summers), and at least three months apart. The examination will be conducted by the Dissertation Committee, be based on the student's dissertation research and include questions from the student's major field and cognate fields. After fulfilling this requirement, passing the cumulative examinations, and completing all required coursework, the student advances to candidacy.
4. Satisfactory public presentation and defense of a research dissertation, evaluated by the Dissertation Committee. The student's Dissertation Committee will consist of the research advisor (a Fill graduate faculty member who holds dissertation advisor status), a member from outside the Department, or School, but within Fill, a randomly-assigned member appointed by the Graduate Program Director from the Department's graduate faculty, and at least two additional committee members with expertise in the student's research area. At least three members of the Dissertation Committee, including the major research advisor, must be graduate faculty members from the Department of Chemistry and Biochemistry, and at least two of these three members must be tenured. The Committee may include additional members, but they will be non-voting.
5. Award of an M.S. en route to Ph.D.: Individuals directly admitted into the Ph.D. program may apply to be awarded an M.S. degree in Chemistry. To be eligible students must have completed requirements of the MS in Chemistry with report option track. Upon certification by the student's advisor, dissertation committee, and the departmental graduate committee that these requirements have been met the student will be eligible to receive an M.S. in Chemistry with report option track

Doctor of Philosophy in Chemistry with an Environmental Chemistry Track

Degree Requirements

1. A minimum of 75 credit hours. A grade of C or higher must be obtained in all graded courses, and a cumulative GPA of 3.0 or higher must be maintained. The course of study must include:
   a. 12 credit hours of Environmental Chemistry core courses including four of the following six courses, each of which is worth three credit hours:

CHM 5423	Atmospheric Chemistry
CHM 5765	Aquatic Chemistry
CHM 6281	Environmental Organic Chemistry
CHM 6340	Organic Geochemistry

OCC 5050 Chemical Oceanography
CHM 6088 Environmental Chemistry of Trace Elements

b. Two chemistry core courses chosen from the following
CHM 5156 Advanced Chromatography
CHM 5138 Advanced Mass Spectrometry
CHM 5236 Spectroscopic Techniques and Structure Determination
CHM 6157 Advanced Analytical Chemistry
CHM 5165 Chemometrics and Sampling
CHM 5260 Physical Organic Chemistry

c. At least one elective. The elective must be approved by the student's Dissertation Committee, and Environmental Chemistry Graduate Committee. This committee consists of the Environmental Chemistry Graduate Program Director, the Chemistry Graduate Program Director, and two Departmental faculty members active in research in environmental science.
d. Full time graduate students prior to reaching candidacy, are required to register for one credit of CHM 6940 (Supervised Teaching) each semester they serve as a teaching assistant.
e. Full time graduate students are required to register for one credit of CHM 6935 (Graduate Seminar) or one credit of CHM 6936 (Chemistry Colloquium) each Fall and Spring semester.
f. At least one credit of CHM 6936 (Chemistry Colloquium) is required. Each student must present a seminar on their proposed research at the colloquium for a letter grade by the end of their third semester of graduate study.
g. At least eight credit hours of CHM 7910 (Dissertation Research) involving independent dissertation research under the direction of a faculty member in the Department.
h. At least 15 credits of CHM 7980 (Ph.D. Dissertation) to be taken after the student has advanced to candidacy.
i. A maximum of 36 credits may be transferred from a completed Master's degree from another graduate program with the approval of the Graduate Committee. However, only six credit hours can be counted towards the formal academic coursework requirement (1 a-c). Students must elect an appropriate course load in accordance with their research topic, and in agreement with their Graduate Committee and the Departmental Graduate Advisor.

2. Satisfactory completion of cumulative exams. The students will begin taking the cumulative examinations after completing the proficiency requirements but no later than the beginning of the student's second semester. Seven exams, each lasting three hours, will be given each year. The student must pass four out of 10 consecutively offered exams for admission to candidacy.
3. Satisfactory presentation and defense of a preliminary oral examination. The preliminary oral examination occurs in the fifth semester (excluding summers). The examination will be conducted by the Dissertation Committee, be based on the student's dissertation research progress and future plans and should include at least one original aim conceived and developed independently by the student. The examination will include questions from the student's major field and cognate fields. After fulfilling this requirement, completing all required course work, the student advances to candidacy.
4. Satisfactory public presentation and defense of a research dissertation, evaluated by the Dissertation Committee. The student's Dissertation Committee will consist of the research advisor (an FIU graduate faculty member who holds dissertation advisor status), a member from outside the Department or School but within FIU, a randomly selected member appointed by the Graduate Program Director from the Department's graduate faculty, and at least two additional committee members with expertise in the student's research area. At least three members of the Dissertation Committee, including the major research advisor, must be graduate faculty members from the Department of Chemistry and Biochemistry, and at least two of these three members must be tenured. The Committee may include additional members, but they will be non-voting.
5. Award of an M.S. en route to Ph.D.: Individuals directly admitted into the Ph.D. program may apply to be awarded an M.S. degree in Chemistry. To be eligible students must have completed requirements of the MS in Chemistry with report option track. Upon certification by the student's advisor, dissertation committee, and the departmental graduate committee that these requirements have been met the student will be eligible to receive an M.S. in Chemistry with report option track.

Doctor of Philosophy in Chemistry with a Forensic Science Track

To be admitted into the Ph.D. program in Chemistry with a Forensic track, a candidate must:

1. Hold a Bachelor's degree in chemistry, forensic science or a relevant discipline from an accredited college or university approved by the Chemistry graduate committee. The minimum requirement is a bachelors degree in a natural science with a least 7 semester courses (28 hours including labs) of chemistry courses including physical chemistry, analytical chemistry and biochemistry. Any deficiencies must be completed before being fully accepted to the Ph.D. program;
2. Have a 3.0/4.0 average or higher during the last two years of the undergraduate program or a Master's degree in a relevant discipline;
3. Official Graduate Record Exam (GRE) scores;
4. Arrange to have three letters of recommendation sent to the Graduate Program Director evaluating the applicant's potential for graduate work;
5. Pass at least two proficiency exams in either analytical or biochemistry and either organic or physical chemistry – students who have not taken physical chemistry must take one semester of physical chemistry to make up the deficiency;
6. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

All admissions to the Chemistry Ph.D. program must be recommended by the chemistry graduate committee and signed off by the chemistry graduate program director.

Degree Requirements

1. A minimum of 75 credits or course work. A grade of "C" or higher must be obtained in all courses, and a cumulative GPA of 3.0 or higher must be maintained. Students must choose either the Analytical or the Biochemistry concentration. The course of study must include:
   a. Twelve credits of required classes that depend on the concentration (each of the following courses is worth three credits):

Analytical Chemistry/Trace Concentration

BSC 5406	Forensic Biology	3
CHS 5542	Forensic Chemistry	3
CHS 5539	Forensic Toxicology	3
CHS 5545	Chem Anl. Explosives	3
	or	
CHS 5538	Chem Anl. of Drugs	3

Biochemistry/DNA Analysis Concentration

BSC 5406	Forensic Biology	3
CHS 5542	Forensic Chemistry	3
CHS 5536	Forensic DNA Chemistry	3
PCB 5685	Population Genetics	3

   b. Two chemistry core courses chosen from the following: Advanced Chromatography (CHM 5156); Advanced Mass Spectrometry (CHM 5138); Spectroscopic Techniques (CHM 5236); Organic Chemistry of Nucleic Acids (CHM 5302); Physical Biochemistry (CHM 5506); Advanced Analytical Chemistry (CHM 6157); Chemometrics & Sampling (CHM 5165); Advanced Biological Chemistry (CHM 6982).
   c. At least one elective. The list of approved electives is maintained by the Chemistry and Forensic Graduate Committees.
   d. Full-time graduate students, prior to reaching candidacy, are required to register for one credit of CHM 6940 (Supervised Teaching) each semester they serve as teaching assistants.
   e. Full-time graduate students are required to register for CHM 6935 (Graduate Seminar) or one credit of CHM 6936 (Chemistry Colloquium) each fall and spring semester.
   f. At least one credit of CHM 6936 (Chemistry Colloquium) is required. Each student must present a seminar on their proposed research at the colloquium for a letter grade by the end of their third semester of graduate study.
   g. At least eight credits of CHM 7910 (Dissertation Research) involving independent dissertation research under the direction of a faculty member in the Department.
   h. At least 15 credits of CHM 7980 (Ph.D. Dissertation) is to be taken after the student has advanced to candidacy.
2. Satisfactory completion of cumulative exams. The students will begin taking the cumulative examinations after completing the proficiency requirements but no later than the beginning of the student's second semester. Seven exams, each lasting three hours, will be given each year. The student must pass four out of 10 consecutively offered exams for admission to candidacy
3. Satisfactory presentation and defense of a Preliminary Oral examination. The preliminary oral examination occurs in the fifth semesters (excluding summers). The examination will be conducted by the Dissertation Committee, be based on the student's dissertation research progress and future plans and should include at least one original aim conceived and developed independently by the student. The examination will include questions from the student's major field and cognate fields. After fulfilling this requirement, passing the cumulative examinations, and completing all required course work, the student advances to candidacy.
4. Satisfactory public presentation and defense of a research dissertation, evaluated by the Dissertation Committee. The composition of the Dissertation Committee is as described in section 4 for the Ph.D. in Chemistry (no track) above.
5. Award of an M.S. en route to Ph.D.: Individuals directly admitted into the Ph.D. program may apply to be awarded an MS degree in Forensic Science or an MS degree in Chemistry. To be eligible students must have completed requirements of the relevant Master's program. Upon certification by the student's advisor, dissertation committee, and the Chemistry and Forensic Science graduate committees that these requirements have been met the student will be eligible to receive the relevant M.S. degree.

Doctor of Philosophy in Chemistry with a Radiochemistry Track

Admission Requirements

To be admitted into the Ph.D. program in Chemistry with the Radiochemistry Track, a candidate must:

1. Hold a Bachelor's degree in chemistry or a relevant discipline from an accredited college or university approved by the Chemistry Department Graduate Committee. The minimum requirement is a Bachelor's degree in a natural science with a least 7 semester courses (28 hours including labs) of chemistry courses including: physical chemistry, analytical chemistry and biochemistry. Any deficiencies must be completed before being fully accepted to the Ph.D. program.
2. Have a 3.0/4.0 average or higher during the last two years of the undergraduate program or a Master's degree in a relevant discipline.
3. Submit general GRE scores. There is no minimum requirement for the overall GRE score, but the applicants with an average percentile rank of 60 on the verbal and quantitative parts of the GRE will be preferentially considered.
4. Arrange to have three letters of recommendation sent to the Radiochemistry Graduate Program Director, each evaluating the applicant's potential for graduate work.
5. Pass at least two proficiency exams in either analytical or biochemistry and either organic or physical chemistry.
6. Receive approval from the Radiochemistry Graduate Committee.

7. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). Minimum required scores is 550 on the paper-based TOEFL, 80 on the internet-based TOEFL (iBT) or 6.5 overall on the IELTS.
8. All admissions to the Chemistry Ph.D. program must be approved by the Chemistry Department Graduate Committee and signed off by the Chemistry Graduate Program Director.

Degree Requirements

1. A minimum of seventy five (75) credits or course work. A grade of "C" or higher must be obtained in all courses, and a cumulative GPA of 3.0 or higher must be maintained. The course of study must include at least 21 credits of approved course work from the following three groups.
   a. Six credits of required classes:

CHS 5110	Topics in Radiochemistry	3
CHS 6111	Advanced Radiochemistry	3

   b. A minimum of six credits from the following list.

CHM 6480	Quantum Mechanics	3
CHM 6157	Advanced Analytical Chemistry	3
CHM 5156	Advanced Chromatography	3
PHZ 5340	Particle Interactions and Detection	3
CHM 5540	Group Theory In Chemistry	3
CHM 5650	Physical Inorganic Chemistry	3
CHM 6491	Applications of Synchrotron Radiation and Electron Based Techniques	3
CHM 5681	Special Topics in Inorganic Chemistry	3
CHM 5236	Spectroscopic Techniques and Structure Elucidation	3
*PHY 6645	Advanced Quantum Mechanics *Could substitute for CHM 6480	3

   c. Additional electives from the following list, or with graduate committee approval, as needed to meet the course requirement:

CHM 6088	Environmental Chemistry of Trace Elements	3
CHM 5165	Chemometrics and Sampling	3
CHM 5490	Physical Spectroscopy	3
CHM 6461	Statistical Thermodynamics	3
CHM 5440	Kinetics and Catalysis	3
CHM 5586	Computational Chemistry	3
CHM 5263	Physical Organic Chemistry	3
CHM 5506	Physical Biochemistry	3
CHM 5251	Oganometallic Chemistry	3
PHZ 5730	Biophysical Effects of Radiation	3
PHZ 5732	Clinical and Medical Dosimetry	3

   d. Full-time graduate students, prior to reaching candidacy, are required to register for one credit of CHM 6940 (Supervised Teaching) each semester they serve as teaching assistants.
   e. Full-time graduate students are required to register for CHM 6935 (Graduate Seminar) or one credit of CHM 6936 (Chemistry Colloquium) each fall and spring semester.
   f. At least one credit of CHM 6936 (Chemistry Colloquium) is required. Each student must present a seminar on their proposed research to the dissertation committee by the end of their third semester of graduate study.
   g. At least eight credits of CHM 7910 (Dissertation Research) involving independent dissertation research under the direction of a faculty member in the Department.
   h. At least 15 credits CHM 7980 (Ph.D. Dissertation) is to be taken after the student has advanced to candidacy.
2. Satisfactory completion of cumulative exams. The students will begin taking the cumulative examinations after completing the proficiency requirements but no later than the beginning of the student's second semester. Six exams, each lasting three hours, will be given each year. The student must pass four out of 10 consecutively offered exams for admission to candidacy. Cumulative exams in the area of Nuclear and Radiochemistry will be added to existing specialties.
3. Satisfactory presentation and defense of a Preliminary Oral examination. The preliminary oral examination occurs in the fifth semester (excluding summers). The examination will be conducted by the Dissertation Committee, be based on the student's dissertation research progress and future plans and should include at least one original aim conceived and developed independently by the student. The examination will include questions from the student's major field and cognate fields. After fulfilling this requirement, passing the cumulative examinations, and completing all required course work, the student advances to candidacy.
4. Satisfactory public presentation and defense of a research dissertation, evaluated by the Dissertation Committee. The student's Dissertation Committee will consist of the research advisor (an FIU graduate faculty member who holds dissertation advisor status), a member from outside the Department or School but within FIU, a randomly selected member appointed by the Graduate Program Director from the Department's graduate faculty, and at least two additional committee members with expertise in the student's research area. At least three members of the Dissertation Committee, including the major research advisor, must be graduate faculty members from the Department of Chemistry and Biochemistry, and at least two of these three members must be tenured. The Committee may include additional members, but they will be non-voting.
5. Award of an M.S. en route to Ph.D.; Individuals directly admitted into the Ph.D. program may apply to be awarded an M.S. degree in Chemistry. To be eligible students must have completed requirements of the MS in Chemistry with report option track. Upon certification by the student's advisor, dissertation committee, and the departmental graduate committee that these requirements have been met the student will be eligible to receive an M.S. in Chemistry with report option track.

PhD Program in Biochemistry

The PhD in Biochemistry is a offered by the Biochemistry Ph.D. Program, which is co-sponsored by the Department of Chemistry and Biochemistry, the Department of Biological Sciences, and the Herbert Wertheim College of Medicine. The core of graduate courses will provide a firm foundation in the theory and techniques of biochemistry,

and molecular biology (molecular genetics), with full integration of the core disciplines of chemistry, biology and related fields. With this foundation, students will be prepared to specialize in either biochemistry or molecular biology.

Admission Requirements

1. Hold a BS degree in Biology or Chemistry or the equivalent from an accredited college or university. Previous completion of at least 28 credits, including labs, of chemistry or biology courses at the upper division level is required. The following courses are recommended as background regardless of undergraduate major: biochemistry or molecular biology, two semesters of organic chemistry, and two semesters of general biology. Students are expected to have taken either physical chemistry or genetics as an undergraduate. Students not having taken at least one of these courses will be required to make up this deficiency either before or during their first year of graduate study by taking appropriate coursework.
2. A GPA of at least 3.0 (on a four-point scale) during the last 60 credits of the undergraduate program.
3. Official Graduate Record Exam (GRE) scores.
4. Three letters of recommendation evaluating the applicant's potential for graduate and research work.
5. A statement of purpose/research interests.
6. Receive approval from the Biochemistry Graduate Committee.
7. Foreign students whose native language is not English must obtain a score of 80 or higher on the TOEFL iBT or 550 on the paper TOEFL or a 6.5 on the IELTS.

Degree Requirements

The PhD in Biochemistry requires a minimum 75 semester hours beyond the baccalaureate degree. The Dissertation Advisor and Committee will assist the student to choose a curriculum suitable to the student's interests, goals and background. This will include selection of electives as well as suggestions for other courses that may be needed to develop skills critical for the student's research and career goals, especially quantitative skills. A grade of C or higher must be earned in all courses.

Coursework Requirements

Required Core Courses (16 credits)

BCH 6831	Introduction to Biochemical Research	3
BCH 6108	Biochemical Techniques	3
CHM 6036	Advanced Biochemistry I	3
PCB 6025	Molecular and Cellular Biology I	3
CHM 6037	Advanced Biochemistry II (Molecular Genetics)	3
	or	
PCB 6027	Molecular and Cellular Biology II	3
CHM 6802	Research Ethics	1

Biochemistry Graduate Seminar Requirement

BCH 7930*	Biochemistry Graduate Seminar	1or0

*Full time graduate students are required to register for BCH 7930 each fall and spring semester. Prior to Advancement to Candidacy they will register for 1 credit of BCH 7930 each semester. After the student has advanced to candidacy, the student will register for the 0 credit course each semester.

Additional Required Courses (22 credits)

BSC 5945	Supervised Teaching in Biology	2
	or	
CHM 6940	Supervised Teaching	2
BSC 6913	Student Research Laboratory	1
	or	
CHM 6910L	Graduate Research in Chemistry *(taken during lab rotations)*	1
CHM 7910	Dissertation Research	4
BSC 7980/CHM 7980	PhD Dissertation	15

Electives*

BSC 6415	Animal Cells in Culture	3
BSC 6415L	Animal Cells in Culture Lab	2
CHM 5302	Organic Chemistry of Nucleic Acids	3
CHM 5325	Physical Chemistry of Proteins	3
CHM 5351	Computer Modeling of Biological Molecules	3
CHM 5440	Kinetics and Catalysis	3
CHM 5503	Physical Chemistry of Nucleic Acids	3
CHM 5506	Physical Biochemistry	3
CHS 5536	Forensic DNA Chemistry	3
MCB 6935	Advanced Topics in Microbiology	3
PCB 5665	Human Genetics	3
PCB 5665L	Human Genetics Lab	2
PCB 5725	Membrane Signal Transduction	3
PCB 5786	Membrane Physiology	3
PCB 6236	Comparative Immunology	3
PCB 6526	Advanced Molecular Biology	3
PCB 6566	Chromosome Structure and Function	3
PCB 6786	Membrane Biophysics	3
PCB 6935	Advanced Topics in Genetics	3
BCH 6130C	DNA Synthesis and Amplification	1
BCH 6132C	Electrophoresis	1
BCH 6133C	DNA Sequencing	1
MCB 5315C	Prokaryotic Cloning	2

***The PhD in Biochemistry requires a minimum 75 semester hours beyond the baccalaureate degree.**
Rotation and Choosing an Advisor

Rotation and Choosing an Advisor

Students will spend 4-5 weeks in the laboratories of three Biochemistry faculty. Some flexibility in length of rotation is acceptable. In most cases, the rotations will be completed during the first semester of study, but an extension into the second semester is possible. At the end of each rotation, the student and the faculty member will complete an evaluation form. After completing a minimum of three rotations, students will submit an ordered list of three advisors they would like to work with. The Biochemistry Graduate Committee will make the research advisor assignments.

Supervised Teaching

Two semesters of supervised teaching or documentation of the equivalent amount of teaching experience is required. Concurrent enrollment in BSC 5945/CHM 6940 Supervised Teaching is required.

Completion of Candidacy Exam

The Candidacy Exam consists of two parts: 1) a written Qualifying Examination and 2) presentation of an Original Research Proposal followed by a Preliminary Oral Exam. The written Qualifying Exam will be administered at the end of the third semester of study (excluding summers), by which time all core courses should have been

completed. The exam will be designed primarily to test material mastered in core courses. After passing the written Qualifying Exam, the student will present and defend an original research proposal (on a topic not related to the student's specific doctoral research project) and undergo an oral exam.

Presentation of Formal Proposal of the Dissertation Topic

Each student must present a public seminar on their proposed research. This is done in the context of a one-credit course (BSC 7961 or CHM 6936) for a letter grade.

Submission and Defense of Dissertation

All students must submit a dissertation based upon original research in biochemistry. After submission of the dissertation and completion of all other prescribed work, the candidate will give a public presentation of the completed research and be given a final oral examination by the Dissertation Committee.

Course Descriptions

Definition of Prefixes

BCH-Biochemistry (Biophysics); CHM-Chemistry; CHS-Chemistry-Specialized; OCC - Chemical Oceanography
F-Fall semester offering; S-Spring semester offering; SS Summer semester offering.

BCH 5045 Survey of Biochemistry (3). For students NOT specializing in biochemistry. Topics will cover the structure, function, biosynthesis and synthesis of biological molecules, biological macromolecules and macromolecular assembles. Prerequisite: CHM 2211.

BCH 6108 Biochemical Techniques (3). Introduction to theories of basic biochemical techniques commonly used in a biochemistry laboratory. Prerequisite: One semester of biochemistry.

BCH 6831 Introduction to Biochemical Research (3). An overview of the analysis of biochemical data and experimental design. Prerequisite: Graduate standing.

BCH 7930 Biochemistry Graduate Seminar (0-1). Presentations and discussions of current topics in the biochemical sciences. Corequisite: Graduate standing.

CHM 5138 Advanced Mass Spectrometry (3). Intensive examination of the processes and techniques involved in creating, controlling and measuring ionic species by mass spectrometry. Theory of mass spectrometry, methods of ionization, instrumental designs, quantitative mass spectrometry, meta-stable ions, and tandem mass spectrometry. Prerequisites: CHM 4130, CHM 4130L or Permission of Instructor.

CHM 5139C Mass Spectrometry Workshop (2). Basic description of processes and techniques involved in creating, controlling and measuring elemental or molecular ionic species by mass spectrometry techniques. WS designed to provide hands on experience. Prerequisite: CHM 4130.

CHM 5150 Graduate Analytical Methods (3). Analysis of analytical data, electrochemistry, spectro-analytical techniques, chromatography, survey of new analytical methods. Prerequisites: Graduate standing or permission of the instructor. (F,S)

CHM 5156 Advanced Chromatography (3). Intensive examination of the contemporary practice of chromatography including available chromatographic techniques, their selection and application. Prerequisites: CHM 4130 or permission of the instructor.

CHM 5165 Chemometrics and Sampling (3). Methods of evaluating analytical chemistry data. Planning sampling design for water, air and solids. Sample preparation and extraction techniques. Prerequisite: CHM 4130.

CHM 5225 Graduate Organic Chemistry (3). Advanced topics in organic chemistry. Structure of organic molecules, reaction mechanisms, organic synthesis, and natural product chemistry. Prerequisites: Graduate standing or permission of the instructor. (F,S)

CHM 5236 Spectroscopic Techniques and Structures Elucidation (3). Advanced techniques for the spectroscopic identification of organic compounds. Interpretation of spectral information for determination of structures of various classes of organic compounds. Prerequisites: CHM 4220 and CHM 4230L.

CHM 5250 Organic Synthesis (3). Use of classical and modern reactions in the design and construction of complex organic molecules including natural products. Some topics covered will be construction reactions, refunctionalization, stereochemistry and conformational analysis. Prerequisites: CHM 4220 or permission of the instructor.

CHM 5251 Organometallic Chemistry (3). Fundamentals and applications of organometallic chemistry. Structures and bonding, ligand types, organometallic reactions, physical methods of characterization. Prerequisites: CHM 4611, CHM 3411.

CHM 5252 Asymmetric Synthesis (3). Recent advances in asymmetric synthesis for the selective design and construction of tetrahedral stereocenters. Focus on principles of configuration in transition state assemblies. Prerequisite: CHM 4220.

CHM 5263 Physical Organic Chemistry (3). A series of topics will be discussed including molecular orbital theory as it pertains to organic molecules, kinetic and thermodynamic approaches to the study of reaction mechanisms, quantitative approaches to conformational analysis, etc. Prerequisites: CHM 4220 and physical chemistry or permission of the instructor.

CHM 5280 Natural Products Chemistry and Biosynthesis (3). Studies of the chemical origins (biosynthesis), properties, and synthesis of the various classes of naturally occurring compounds: terpenes, steroids, alkaloids, acetogenins. Prerequisites: CHM 4220 or permission of the instructor.

CHM 5285 Marine Natural Products: Chemistry and Pharmacology/Toxicology (3). Identification, isolation, and characterization of toxic and other biologically active compounds from marine sources.

CHM 5302 Organic Chemistry of Nucleic Acids (3). Organic chemistry of ribose sugars, nucleotide heterocyclic bases, mechanism-based inhibitors of enzymes involve in nucleic acid metabolism, and chemical synthesis of DNA. Prerequisites: CHM 4220 or permission of the instructor.

CHM 5305 Graduate Biological Chemistry (3). Structures of biological molecules; Biochemical reaction mechanisms; Enzyme kinetics; Biomolecular thermodynamics; Biomolecular spectroscopy. Prerequisites: Graduate standing or permission of instructor.

CHM 5306 Special Topics in Biological Chemistry (3). Investigation of one or more areas of biologically related chemistry. Prerequisites: CHM 4305 or permission of the instructor.

CHM 5325 Physical Chemistry of Proteins (3). Protein structures, dynamics and functions. Use of spectroscopic methods. Thermodynamics of protein folding and ligand binding. Enzyme Kinetics. Prerequisites: Biological Chemistry and Physical Chemistry or permission of instructor.

CHM 5351 Computer Modeling of Biological Molecules (3). Introduces use of computers in studying biological macromolecules. Simulations, visualization methods, software, databases. Prerequisite: CHM 3411, Biochemistry recommended.

CHM 5380 Special Topics in Organic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisites: CHM 4220 and physical chemistry or permission of the instructor.

CHM 5423 Atmospheric Chemistry (3). Chemical processes in atmospheres. Photochemistry, chemical kinetics, tropospheric and stratospheric chemical reactions, anthropogenic effects on the earth's atmosphere and chemistry of planetary atmospheres. Prerequisites: CHM 3411, or permission of the instructor.

CHM 5425 Graduate Physical Chemistry (4). Prequantum physics, the Schrodinger equation and its solutions, atoms and molecules, rotational, vibrational, and electronic spectroscopy. Prerequisites: Graduate standing or permission of the instructor.

CHM 5426 Graduate Physical Chemistry II (4). Gas laws; thermodynamics and equilibrium, electrochemistry, and chemical kinetics. Prerequisite: Graduate standing or permission of the instructor.

CHM 5440 Kinetics and Catalysis (3). Theory of elementary reactions, activated complex theory, mechanisms of complex reactions. Prerequisites: CHM 3411, MAP 3302.

CHM 5450 Advanced Polymer Chemistry (3). Advanced aspects of polymer chemistry. Properties, synthesis, uses and characterization of various polymeric materials. Prerequisites: CHM 2210 and CHM 2211. Corequisite: Graduate Standing.

CHM 5490 Physical Spectroscopy (3). Introduction to atomic and molecular quantum states, selection rules, and fundamental principles of spectroscopy. Introduction to group theory and to the theory of UV/visible, infrared, Raman, microwave, NMR, photo-electron, and mass spectroscopies, and the applications of these methods to the determination of fundamental physical properties and the structure of organic and inorganic molecules. Prerequisite: Physical Chemistry.

CHM 5490L Physical Spectroscopy Lab (1). The theory of spectroscopy and the use of modern instrumentation to investigate molecular structure. Prerequisites: CHM 2211, 2211L. Corequisites: PHY 4604 or CHM 5490.

CHM 5503 Physical Chemistry of Nucleic Acids (3). Physical chemistry of nucleic acids including spectroscopic determination of structures of DNAs, RNAs, and DNA protein complexes and thermodynamic and kinetic studies of nucleic acid-ligand complexes and nucleic acid structures. Prerequisites: CHM 4305 or permission of the instructor.

CHM 5506 Physical Biochemistry (3). Physical properties of biomolecules, molecular conformation; thermodynamic, kinetic, and spectroscopic properties of biomolecules. Prerequisites: CHM 4305 or permission of the instructor.

CHM 5517 Solid State (3). Crystalline form of solids, lattice dynamics, metals, insulators, semiconductors, and dielectric materials. Prerequisites: CHM 5490 or PHY 4604.

CHM 5540 Group Theory In Chemistry (3). The fundamental theory is developed with emphasis given to representations. Specific applications covered, with emphasis on molecular orbital theory and spectroscopy. Prerequisite: CHM 3411.

CHM 5586 Computational Chemistry (3). Surveys computational methods for studying issues pertinent to organic and biological chemistry. Emphasis on developing an understanding of principles and putting methods to use. Includes methods for studying reaction thermodynamics, reaction mechanisms and NMR spectral properties. Prerequisites: CHM 3410, CHM 3411.

CHM 5620 Graduate Inorganic Chemistry (3). Atomic structure, periodicity, bonding and structure of inorganic compounds, solution chemistry, ligand field theory, organometallic chemistry, and specific chemistry of the elements. Prerequisite: Graduate standing or permission of instructor.

CHM 5650 Physical Inorganic Chemistry (3). Introduction to use of physical methods to determine the structure of inorganic compounds. Prerequisites: CHM 4611 or permission of the instructor.

CHM 5681 Special Topics in Inorganic Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisites: CHM 4611 or permission of the instructor.

CHM 5765 Aquatic Chemistry (3). Redox chemistry, chemistry of sediments, organic biogeochemistry, chemodynamics, and fates or organic pollutants in aqueous environments. Prerequisites: CHM 2211, CHM 4130, or permission of the instructor.

CHM 5812 Learning Theories: Three-Dimensional Learning (3). An investigation of Three-Dimensional Learning and how it can be used to synthesize information learned in their chemistry courses. Also emphasizes assessment of scientific practices and core ideas.

CHM 5932 Special Topics (3). A course covering selected special topics in chemistry.

CHM 5934 Special Topics in Analytical Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Core course Prerequisites: CHM 4130 or permission of the instructor.

CHM 5936 Special Topics in Environmental Chemistry (3). An intensive examination of one or more areas selected by the instructor and students. Prerequisite: Permission of the instructor.

CHM 5938 Special Topics in Physical Chemistry (VAR). An intensive examination of one or more areas selected by instructor and students. Prerequisites: CHM 3411 or permission of the instructor.

CHM 6036 Advanced Biochemistry I (3). Overview of the structure and function of Biomacromolecules, i.e., proteins, enzymes, and nucleic acids emphasizing the current literature. Prerequisites: One semester of biochemistry or consent of the instructor.

CHM 6037 Advanced Biochemistry II (Molecular Genetics) (3). Introduction to biochemical pathways regulation and intra- and extracellular communication on the molecular level. Prerequisite: CHM 6036.

CHM 6088 Environmental Chemistry of Trace Elements (3). Occurrence, transformation, detection, speciation, and other aspects of trace elements in the environment.

CHM 6157 Advanced Analytical Chemistry (3). Modern analytical methods, applications, and instrumentation. Topics include spectroscopy, chromatography, electrochemistry, optimization theory, and computerized instrumentation. Prerequisites: CHM 4130 or permission of the instructor.

CHM 6166 Hyphenated Analytical Techniques (3). Covers hyphenated analytical techniques required for the analysis of trace elements and organic compounds in environmental and biomedical sciences. Prerequisites: CHM 4130 or equivalent.

CHM 6167 Modern Analytical Methods for Surface and Structural Interrogation (3). Beam interactions with surfaces, gas-phase post-ionization separations, analytical instrumentation for biological and structural mass spectrometry. Prerequisite: CHM 4130.

CHM 6176 Macromolecular Biosensors (3). An introduction to the principles of macromolecular biosensors. Bio-recognition elements, immobilization methods, sensor design and integration, and recent advances in sensor technology. Prerequisite: CHM 4130.

CHM 6281 Environmental Organic Chemistry (3). Characteristics, origin, fate and transformation of organic compounds in air, water, sediments and biota. Prerequisites: CHM 2211, CHM 3411, or permission of the instructor.

CHM 6340 Organic Geochemistry (3). Organic geochemistry of recent and ancient environments. Characteristics, origin, and transformation of organic matter in the geosphere, including formation of crude oil. Prerequisites: CHM 2211, CHM 3411, CHM 4130, GLY 1010, or permission of the instructor.

CHM 6382 Advanced Biological Chemistry (3). In depth exploration of one or more biological chemistry areas, for example, use of multinuclear NMR in examining nuclear acids and proteins; biosynthesis of toxins, roles of porphyrins. Topics covered vary with instructor. Prerequisites: Biological Chemistry and Physical Chemistry or permission of instructor.

CHM 6449 Photochemistry (3). Fundamentals of photochemistry. Excited states, energy, and electron transfer processes, photo-oxidation, reactive species, and environmental photochemistry. Prerequisites: CHM 4220 or permission of the instructor.

CHM 6461 Statistical Thermodynamics (3). Principles of statistical thermodynamics. Ensembles, classical and quantum statistics, ideal and nonideal gases, equilibrium, crystals, liquids, and polymers. Prerequisites: CHM 3411 or permission of the instructor.

CHM 6480 Quantum Mechanics (3). Introduction to quantum mechanics. The Schrodinger equation and its solutions, approximation methods, spin, symmetry, structure of atoms and molecules. Prerequisites: CHM 3411 or permission of the instructor.

CHM 6491 Applications of Synchrotron and Electron Based Techniques (3). X-ray and synchrotron techniques, including general theory, X-ray diffraction, small and wide angle scattering, imaging and microscopy, transmission electron microscopy, and EELS spectroscopy. Prerequisite: Graduate Standing in chemistry or related area or permission of instructor.

CHM 6511 Polymer Chemistry (3). A quantitative study of polymers. Mechanism of formation, configuration of polymer chains, and the relationship between physical properties and chemical constitution. Prerequisite: CHM 3411 or permission of the instructor.

CHM 6621 Inorganic Reaction Mechanisms (3). Review of kinetics and determination of mechanism. Study of mechanism of reactions of coordination complexes including electron transfer reactions, ligand substitution reactions, coordinated ligand reactions of importance in homogeneous catalysis. Prerequisite: Physical Chemistry I (Kinetics).

CHM 6802 Research Ethics (1). Ethical issues in biochemical research. Scientific misconduct, professional integrity, intellectual property, authorship and publication. Corequisite: Graduate standing.

CHM 6905 Independent Study in Chemistry (1-6). Independent study and problems in an area of chemistry, under faculty supervision. May be repeated. Prerequisite: Permission of the instructor.

CHM 6910L Graduate Research in Chemistry (VAR). The student works directly with a professor on a research project. Credit is assigned on the basis of four hr/wk per credit hour. Results to be presented as a seminar. Permission of the instructor.

CHM 6935 Graduate Seminar (0-1). An examination of various current research topics in chemistry. Prerequisite: Graduate standing.

CHM 6936 Chemistry Colloquium (1). Analysis of current developments and topics presented by faculty members and registered students. Prerequisite: Admission to graduate program in chemistry.

CHM 6940 Supervised Teaching (1-3). Graduate student serves as lecturer and demonstrator in undergraduate laboratories coordinated and supervised by a faculty member. May be repeated. A maximum of three hours may apply to the Master's degree. Prerequisite: Good graduate standing.

CHM 6949 Industrial Internship (3). A semester of supervised work in an outside laboratory. Prerequisite: Permission of the instructor.

CHM 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. Repeatable. Prerequisite: Permission of the department.

CHM 6971 Master's Thesis (1-6). Completion of thesis. Prerequisite: Permission of major professor.

CHM 7910 Dissertation Research (1-10). Research towards the completion of a doctoral dissertation. Repeatable. Prerequisite: Graduate Standing.

CHM 7980 Ph.D. Dissertation (1-12). Completion of doctoral dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy. May be repeated.

CHS 5435 Pharmacology and Toxicology of Drugs (3). Provides an in-depth understanding of basic pharmacological and toxicological principles of drug action from a molecular, mechanistic, and physiochemical viewpoint. Prerequisite: Graduate standing.

CHS 5502 Forensic Chemistry for Teachers (3). Incorporates concepts and techniques from the application of analytical chemistry, molecular biology, biochemistry, toxicology, and microscopy to forensic casework. Exposure to teaching resources in these areas and case study format of presentation. Open to education majors only. Prerequisites: CHM 3120, CHM 3120L, CHM 2211, and CHM 2211L or permission of instructor.

CHS 5535 Forensic Analysis (3). Advanced topics on the role that physical evidence plays in their criminal justice system. Topics include crime scene methods, laboratory management and the legal framework as it relates towards physical evidence. Prerequisites: CHM 3120, CHM 3120L, CHM 2211, CHM 2211L, or permission of the instructor. (Does not count towards chemistry elective requirement).

CHS 5535L Forensic Analysis Lab (1). Laboratory to accompany Forensic Analysis CHS 5535. Prerequisites: CHM 3120, CHM 3120L, CHM 2211, CHM 2211L or permission of the instructor.

CHS 5536 Forensic DNA Chemistry (3). Chemical basis for current methodologies of DNA analysis. DNA sequencing, PCR, STR, AFLP, mass spectrometry. Prerequisites: CHM 4304 or permission of instructor.

CHS 5538C Chemistry and Analysis of Drugs (3). Introduction to the chemistry of drugs of abuse, including reactivity, synthesis and the principles of analysis from solid doses and from body fluids. Laboratory analysis through the determination of unknown samples. Prerequisites: CHM 4130, CHM 4130L, CHM 4304, CHM 4304L.

CHS 5539 Forensic Toxicology (3). Provides the basic concepts of forensic toxicology as it applies to drug and body fluid analysis. Prerequisites: CHM 2211+L, CHM 3120+L, CHM 4305+L (BCH 3033+L) or permission of instructor.

CHS 5542 Forensic Chemistry (3). Advanced analytical methods in Forensic Chemistry for application to the analysis of controlled substances, materials (ie., paint, glass, and fibers), flammable and explosives residues with an emphasis on new methods and method development.

CHS 5545 Chemistry and Analysis of Explosives (3). Chemistry and reactivity, including thermochemistry, of modern industrial and military explosives' with an emphasis on the analysis of explosives residues from post-blast debris and from samples of environmental interest. Prerequisites: CHM 4130, CHM 4130L.

CHS 5110 Topics in Radiochemistry (3). Principles and applications of radiochemistry. Types of radionuclides, decay modes, radiation detection, counting statistics, dose determination, hazards, and applications. Prerequisites: Graduate student status and CHM 3411 or equivalent.

CHS 6111 Advanced Radiochemistry (3). Radioanalytical techniques, applications of radioisotopes and tracers, nuclear reactor, the chemistry of trausuranic elements, the nuclear fuel cycle and advanced solvent extraction processes. Prerequisite: CHS 5110.

CHS 6905 Independent Study in Forensic Science (1-6). Independent study and problems in an area of forensic science under faculty supervision. Prerequisite: Permission of instructor.

CHS 6946 Graduate Forensic Internship (1-6). Internship in an operational forensic laboratory, contributing in a specific manner on an assigned research project. Six hours a week minimum residence time per credit in the lab under the supervision of a host lab scientist and a faculty member is required. A final written report and presentation required. Prerequisite: Core courses in Forensic M.S. Program.

OCC 5050 Chemical Oceanography (3). Interaction of chemical processes in marine systems with biological, geological, and physical processes. Prerequisites: Graduate standing or permission of the instructor.

Forensic Science

DeEtta Mills, *Associate Professor, Biological Sciences Director, International Forensic Research Institute (IFRI), Forensic DNA Profiling Facility*
Jose R. Almirall, *Professor, Chemistry and Biochemistry*
Bruce McCord, *Professor, Chemistry and Biochemistry*
Anthony P. (Tony) DeCaprio, *Associate Professor, Chemistry and Biochemistry and Director, Forensic Science Certificate Program*
Kenneth Furton, *Professor, Chemistry and Biochemistry, Executive Director, Global Forensic and Justice Center, Chief Scientific Officer, Provost Emeritus Designee*
Max Houck, Graduate Program Director, Professional Science Master's in Forensic Science
Jeffrey Wells, *Associate Professor, Biological Sciences*
Julian Mendel, *Research Assistant Professor, Assistant Director, IFRI, MSFS Graduate Program Director*
Lauren DeGreeff*, Associate Professor, Chemistry and Biochemistry*
Nadja Schreiber Compo*, Professor, Psychology*

Administered by the International Forensic Research Institute (IFRI), the Master of Science in Forensic Science is an interdisciplinary program designed to prepare students for careers in local, state and national forensic science laboratories. The program may also be suitable preparation for doctoral instruction in several disciplines.

Admission Requirements

To be admitted into the Master's degree program in Forensic Science, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.*
2. Have a 3.0 GPA in upper-level course work and submit official Graduate Record Exam (GRE) scores.
3. Two letters of recommendation of the student's academic potential.
4. Be accepted by a faculty sponsor.
5. Receive approval from the Graduate Committee.
6. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

*Minimum requirement is the equivalent of a bachelor's degree in biology, chemistry or related science approved by the graduate committee. It is recommended that students have the equivalent of a minor in chemistry before taking the required courses.

Degree Requirements

The Master of Science in Forensic Science consists of a minimum of 32 credits, including a thesis based upon the student's original research or completion of an independent study report option.**

A maximum of six credits of post-baccalaureate coursework may be transferred from other institutions, subject to the approval of the Graduate Committee. The graduate committee will consist of the Graduate Program Director and a member from each of the following departments: Chemistry and Biochemistry, Biological Sciences, Criminology and Criminal Justice and Psychology. The thesis committee shall consist of the research advisor (normally the faculty sponsor), and at least two additional committee members who have some expertise in the graduate student's research area. All members must hold graduate faculty status.

Required Courses

BSC 5406	Forensic Biology	3
CHS 5542	Forensic Chemistry	3
CHS 5535	Forensic Analysis	3
BSC 5931	Thesis Proposal	1
	or	
CHM 6935	Thesis Proposal	1
	or	
	approved cognate[1]	
BSC 5975	Thesis Defense Seminar	1
	or	
CHM 6971	Thesis Defense Seminar	1
	or	
	approved cognate[1]	
BSC 6971	Thesis	6
	or	
CHM 6970	Thesis	6
	or	
	approved cognate[1]	
Electives[2]		15

[1]Equivalent courses in the student's area(s) of thesis concentration may be substituted upon approval by the student's committee in consultation with the Graduate Program Director (i.e., CCJ, GLY, PHY, PSY). [2]At least fifteen credits of additional graduate-level courses, workshops and laboratories (excluding research and seminar) from participating departments approved by the thesis committee in consultation with the Graduate Program Director. [Consult the Director for a selected list of Chemistry, Biology, Earth Sciences, Criminal Justice, and Legal Psychology courses].

**A report option is available for students. Students approved for this option can replace "Thesis" with Independent Study in Forensic Science (CHS 6905) or Student Research Lab (BSC 6913) and must also complete the two additional elective courses such as "Analytical Toxicology (CHS 5539)" and "Advanced Quality Control (STA 5664)".

Graduation Requirement

A grade of "C" or higher must be obtained in all courses with a cumulative average of 3.0/4.0 or higher, and presentation and submission of a satisfactory research thesis to the Thesis Committee.

Professional Science Masters in Forensic Science

The Professional Science Masters (PSM) in Forensic Science program designed to educate students in chemical and biological knowledge related to forensic science, and the necessary administrative skills related to managing (forensic) laboratories.

Admission Requirements

To be admitted into the PSM in Forensic Science, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 GPA in upper-level course work.
3. Two letters of recommendation of the student's academic potential.
4. Be accepted by a faculty sponsor.
5. Receive approval from the Graduate Committee.
6. International graduate students applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). Minimum required scores is 550 on the paper-based TOEFL, 80 on the internet-based TOEFL (iBT) or 6.5 overall on the IELTS.

Degree Requirements

The program consists of 33 credits; 24 credits will focus on technical forensic science content and 9 credits on professional business content. Credits transferred need to be graduate level (> 5000) and earned with a grade of "B" or better, and the course(s) cannot have been taken longer than seven years from the term the student begins as a PMS student. Student will go through the program as a lock-step cohort.

Graduation Requirements

A grade of "B" or higher must be obtained in all courses with a cumulative average of 3.0/4.0 or higher. If students fail any course, they will have to retake that course the next time it is offered, either during the two-year period or as a part-time student after the two-year period. The later will delay the students' completing the program in two years.

All students must select either the Forensic Management Track or the Veterinary Forensic Science Investigation Track.

Forensic Management Track

The Forensic Management Track provides the Forensic coursework with a focus on management aspects that include finance, leadership, ethics, and organization

Required Courses for Forensic Management Track

Semester I: Fall (9 credits)

CHS 5535	Forensic Analysis	3
BSC 5406	Forensic Biology	3
MAN 6245	Organizational Behavior	3

Semester II: Spring (9 credits)

CHS 5542	Forensic Chemistry	3
CHS 5536	Forensic DNA Chemistry	3
PAD 6434	Leadership & Decision Making	3

Semester III: Summer (6 credits)

BSC 5935	Topics in Biology	3
CHM 5934	Special Topics in Analytical Chemistry	3

Semester IV: Fall (9 credits)

CGS 5131	Chemistry and Analysis of Drugs	3
CHM 6949	Industrial Internship	3
PAD 6227	Public Finance & Budgetary Process	3

Veterinary Forensic Science Investigation Track

The Veterinary Forensic Science Track provides the Forensic Science coursework with a focus on Animal Medicolegal aspects that include forensic examination, identification, collection, preservation of evidence, and common categories of animal cruelty and neglect including illness or injury.

Required Courses for Veterinary Forensic Science Investigation Track

Semester I: Fall (9 credits)

CHS 5535	Forensic Analysis	3
BSC 5406	Forensic Biology	3
MAN 6245	Organizational Behavior	3

Semester II: Spring (9 credits)

CHS 5542	Forensic Chemistry	3
BSC 5487	Advanced Forensic and Legal Aspects of Animal Cruelty	3
PAD 6434	Leadership & Decision Making	3

Semester III: Summer (6 credits)

BSC 5486	Advanced Topics Medicolegal Investigations	3
CHM 5934	Special Topics in Analytical Chemistry	3

Semester IV: Fall (9 credits)

PAD 6227	Public Finance & Budgetary Process	3
BSC 5485	Forensic and Veterinary Medicolegal Investigations	3
CHM 6949	Industrial Internship	3

Combined BS in Chemistry/MS in Forensic Science Degree Pathway

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway, but the application must be submitted to Graduate Admissions before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Current enrollment in the Bachelor of Science program in chemistry at FIU.
2. Current GPA of 3.2 or higher.
3. Official GRE general test scores.
4. Three letters of recommendation.
5. Approval of the Chemistry Graduate Committee.

Completion Requirements

Completed Bachelor of Science degree in chemistry at FIU

Required:

1. BSC 5406 Forensic Biology
2. CHS 5542 Forensic Chemistry
3. CHS 5535 Forensic Analysis
4. Required courses must be completed with an average of "B" or higher, and only one course may receive a grade of less than "B-".

5. Electives: 5 courses selected from the Forensic Science Graduate Elective Offerings.
6. 6 credits of Thesis Research and 1 credit of Thesis.
7. 1 credit of Colloquium.
8. Overlap: Up to 3 graduate level courses (9 credits) may be used to satisfy both the Bachelor's and Master's degree requirements.

Combined MS in Forensic Science/PhD in Biology Degree Pathway

The MSFS/PhD in Biology Degree Pathway combines the Master of Science in Forensic Science with a PhD in Biology. Student who pursue this degree will be enrolled in a continuous enrollment pathway; however, upon completion of all the requirements of the MSFS program (report option), students will be awarded a MSFS degree as they transition towards their PhD.

MSFS/PhD in Biology Degree Requirements

For admission into the MSFS/PhD program, students must meet the admission criteria of a PhD student with the understanding that they will have an increased class load of 2-3 classes, e.g., Forensic Biology, Forensic Chemistry, and Forensic Analysis, when compared to the normal PhD applicant but will graduate with two degrees. The requirements will be as follows:

1. Hold a Bachelor's degree in a natural science from a relevant university.
2. Have a 3.0 GPA during the last two years of the undergraduate program and submit official GRE scores.
3. Arrange to have three letters of recommendation sent to the Biology graduate program director evaluating the applicant's potential for graduate work.
4. Be sponsored by a Biology faculty member with Dissertation Advisor Status.
5. Receive approval from the Department Graduate program committee.
6. International graduate student applicants whose native language is not English are required to submit a score for Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IETLS). A score of 80 on the iBT TOEFL or 6.5 overall on the IETLS is required.

As these candidates will be dually enrolled in two graduate degree programs, candidates must complete minimum of 32 credit hours towards their MSFS degree with a grade of 'C' or higher and a cumulative GPA of 3.0. The MSFS report option must be completed and accepted by the University before full transition towards the PhD. Candidates must also complete a total of 75 credit hours toward the PhD with the allowance for credits transferred from the completed MSFS degree. The student will be able to earn both degrees in a similar time frame that it would take to obtain either degree if pursued consecutively.

Students will be required to select a Master's defense committee while pursuing the MSFS as well as a PhD dissertation committee. This committee may or may not be comprised of the same members as those selected for the Master's program. The Master's proposal should be presented after the second semester of admission and the PhD dissertation defense should be presented after the fourth semester after admission.

Required Courses

BSC 6457	Introduction to Biological Research	3
BSC 5931	Thesis Proposal Seminar	1
BSC 7961	Dissertation Proposal Seminar	1
BSC 5975	Thesis Defense Seminar	1
BSC 7982	Dissertation Defense Seminar	1
BSC 5406	Forensic Biology	3
CHS 5535	Forensic Analysis	3
CHS 5542	Forensic Chemistry	3
PCB 5665	Human Genetics	3
PCB 5685	Population Genetics	3

Elective Courses

PCB 6025	Molecular and Cellular Biology I	3
MCB 5116	Microbial Diversity	3
BSC 5459	Advanced Bioinformatics for Biologists	3
BOT 5852	Medical Botany	3
BOT 5727	Plant Genetics	3
PCB 5616	Applied Phylogenetics	3
STA 5207	Topics in Design of Experiments	3
STA 5507	Nonparametric Methods	3

Labs and Workshops

BSC 6925	Workshop: Non-Human DNA Profiling and Analysis	1
BSC 6926	Workshop in Biology: DNA Instrumentation	1
BSC 5935	Workshop in Biology: Advanced DNA Typing	1-2

Research

BSC 6971	Master's Thesis	6
BSC 7980	Ph.D. Dissertation	24

Mathematics and Statistics

Louis Roder Tcheugoue Tebou, *Professor and Chair*
Florence George, *Associate Professor and Director of the Statistics Division*
Dongmei An, *Associate Teaching Professor*
Leonid Bekker, *Teaching Professor*
Hakima Bessaih, *Professor*
Umut Caglar, *Associate Teaching Professor*
Walter Carballosa, *Assistant Teaching Professor*
Chongsheng Cao, *Professor*
Zhenmin Chen, *Professor (In Memoriam)*
Zhongxue Chen, *Professor*
Michael Davidson, *Assistant Teaching Professor*
Laura De Carli, *Professor*
Tedi Draghici, *Associate Professor*
Ian Dryden, *Professor*
Julian Edward, *Professor*
Anna Fino, *Professor*
Domitila Fox, *Teaching Professor*
Edgar Fuller, *Professor and Director of the Center for the Transformation of Teaching Mathematics*
Ciprian Gal, *Associate Professor*
Maydelin Galvez, *Assistant Teaching Professor*
Gauri L. Ghai, *Associate Professor*
Deborah Goldwasser, *Assistant Teaching Professor*
Gueo Grantcharov, *Professor*
Sneh Gulati, *Professor*
Yanqiu Guo, *Assistant Professor*
Kathleen Guy, *Associate Teaching Professor*
Lotfi Hermi, *Assistant Teaching Professor*
Jerry Hower, *Associate Teaching Professor*
Kai Huang, *Associate Professor*
George Kafkoulis, *Associate Professor*
Golam Kibria, *Professor*
Solange Kouemou, *Teaching Professor*
Mark Leckband, *Professor Emeritus*
Thomas Leness, *Professor*
Bao Qin Li, *Professor*
Xiaosheng Li, *Associate Professor*
Dane McGuckian, *Teaching Professor Advisor and Undergraduate Director (Statistics)*
Lakshmy Menon, *Associate Teaching Professor*
Idris Mercer, *Assistant Teaching Professor*
Roneet Merkin, *Associate Teaching Professor*
Abdelhamid Meziani, *Professor*
Jie Mi, *Professor*
Ada Monserrat, *Associate Teaching Professor*
Gisela Muniz, *Assistant Teaching Professor*
Kolapo Oluwo, *Assistant Teaching Professor*
Sergio Perez, *Associate Teaching Professor*
Shivanni Ramhit, *Associate Teaching Professor*
Taje Ramsamujh, *Associate Professor*
Laura Reisert, *Associate Teaching Professor*
Alireza Rostamian, *Teaching Professor*
Svetlana Roudenko, *Professor and Graduate Program Director*
Philippe Rukimbira, *Professor*
Samuel S. Shapiro, *Professor Emeritus*
Robert Storfer, *Associate Teaching Professor*
Yuanchang Sun, *Associate Professor*
Theodore Tachim Medjo, *Professor*
Enrique Villamor, *Professor*
Wei Wang, *Associate Professor*
Zhongming Wang, *Associate Professor*
Anna Wlodarczyk, *Teaching Professor*
Wensong Wu, *Associate Professor*
Yi Zhi Yang, *Associate Teaching Professor*
Mirroslav Yotov, *Teaching Professor*
Hassan Zahedi-Jasbi, *Associate Professor*
John Zweibel, *Associate Professor, Advisor and Undergraduate Director*

Master of Science in Mathematical Sciences

Admission Requirements

The following are in addition to the University's graduate admission requirements:

1. Bachelor's degree in mathematics, applied mathematics or mathematical sciences from an accredited university or college. A bachelor's degree in some other discipline is also acceptable provided the applicant has sufficient mathematics background. The following courses (or equivalent courses) are required for those whose bachelor's degrees are not in mathematics, applied mathematics or mathematical sciences: Advanced Calculus, Linear Algebra, Complex Variables and Algebraic Structures.
2. A 'B' average or higher in upper division mathematics courses.
3. Graduate Record Examination (GRE) taken within the past five years. At least 151 on the quantitative portion of the GRE, or an earned graduate degree from an accredited institution and the approval of the department. Risk Analysis Management Track applicants are allowed to use Graduate Management Admission Test (GMAT) to meet the admission requirement instead of GRE. The minimum required GMAT total score is 500.
4. Three letters of recommendation concerning the candidate's achievement and potential, from persons familiar with the candidate's previous academic performance.
5. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.3 overall on the IELTS is required.
6. Approval of the Graduate Committee.

Option 1

The student must complete a minimum of 24 semester hours of graduate course work. This course work must include 5 courses from the following two lists, with at least 2 from each list.

List A:

MAA 6406	Complex Analysis	3
MAA 6616	Real Analysis	3
MAP 5316	Ordinary Differential Equations	3
MAS 5311	Graduate Algebra	3
MAS 5312	Galois Theory	3
MHF 5107	Graduate Set Theory	3
MHF 5306	Graduate Mathematical Logic	3
MHF 5325	Theory of Recursive Functions	3
MTG 5326	Introduction to Algebraic Topology	3
MAP 5415	Introduction to Fourier Analysis	3

List B:

MAD 5405	Numerical Methods	3
MAP 5236	Mathematical Techniques of Operations Research	3
MAP 6326	Partial Differential Equations	3
MAP 5406	Introduction to Functional and Applied Analysis	3
MAS 5145	Applied Linear Algebra	3
MAP 5467	Stochastic Differential Equations	3
STA 5446	Probability Theory I	3
STA 5447	Probability Theory II	3

Electives

The remaining 9 hours of course work will be used to enhance a coherent program of study best suited to the student's needs and interest. This requires the prior approval of the Graduate Committee and may be done in one or a combination of the following ways: a) Further work from lists A and B. b) A maximum of 2 courses of independent study, taken with Mathematical Sciences faculty. c) Graduate level course work in Engineering, Physics or Statistics.

Master's Project

The student will complete his or her graduation requirements by writing an expository paper under the direction of a faculty member. The student may earn six credit hours (MAT 5970 Master's Research) in preparing the project. Successful completion of the Master's project requires a grade of 'B' or higher, as well as approval of a committee consisting of three mathematics faculty (including the director).

Remarks: The course work must be completed with a 3.0 or higher Grade Point Average (GPA) and a grade of 'C' or higher in each course. A maximum of six graduate semester hours may be transferred into the program from outside the University, subject to the approval of the Graduate Committee. A total of 30 credit hours is required for graduation.

Option 2

This course work must include 7 courses from List A and List B in Option 1, with at least 3 courses from each list.

Electives

Same as in Option 1.

Option 2 has no Master's Project requirement

Remarks: The course work must be completed with a 3.0 or higher Grade Point Average (GPA) and a grade of 'C' or higher in each course. A maximum of six graduate semester hours may be transferred into the program from outside the University, subject to the approval of the Graduate Committee. A total of 30 credit hours is required for graduation.

Risk Analysis and Management Track

This track will consist of 12 one-semester three credit graduate courses. The degree can be completed in 12 months (express track) or two years (normal track). Students must complete requirement in six years.

Admission Requirements

Admission requires a Bachelor's in Mathematics or related fields. In addition, applicants must satisfy conditions 3 through 5 in the admission requirements for our Master of Science in Mathematical Sciences, and have a GPA of at least 3.0 in undergraduate studies. Admission to the program requires applicants to have a firm grasp of mathematics at a high undergraduate level. This means calculus through multivariable calculus, linear algebra and differential equations. Knowledge in probability, statistics, computer programming, economics, or finance is recommended but not required. A student with promise but lacking prerequisites may be admitted but required to take one or more preparatory courses during their first semester.

Degree Requirements

The track in Risk Analysis and Management (RAM for short) requires 36 credits. The student must take 12 graduate credits, 3 credits each.

Course Requirements

Required courses (8):

MAP 6631	Introduction to Risk Analysis and Management
MAP 6635	Risk Analysis and Management I
MAP 6636	Risk Analysis and Management II
MAD 5405	Numerical Methods in Finance
MAP 6218	Stochastic Calculus
MAP 5117	Mathematics and Statistics Modeling in Finance
MAP 6632	PDE in Risk Analysis and Management
CAP 5768	Introduction to Data Science

Elective courses (choose 4):

MAA 6616	Real Analysis
MAP 5204	Optimization and Linear Algebra
MAP 6637	Risk Analysis and Management III
ECO 7429	Topics in Econometrics
FIN 6426	Financial Management Policies
FIN 6428	Corporate finance
FIN 6487	Financial Risk Management
FIN 6515	Security Analysis
FIN 6538	Financial Futures and Fixed Income Derivatives
CAP 5610	Introduction to Machine Learning
CAP 5771	Principles of data mining
CAP 6619	Advanced topics in machine learning
ECP 6305	Advanced environmental economics
ENV 6614	Environmental Risk Management
STA 6326	Mathematical Statistics I

Elective courses are not exhaustive, students interested in other courses are encouraged to pursue them upon approval by graduate program advisor.

Combined BS in Mathematics/MS in Mathematical Sciences Degree Pathway

This pathway will allow strong students in mathematics to complete a bachelor's degree and a master's degree in 5 years rather than the usual six. A minimum of 140 credits are required for graduation with both the bachelor's and the master's degree. In addition to fulfilling the requirements for the Bachelor's degree in mathematics, these 140 credits include 30 graduate credits required for the Master's of Science in Mathematical Sciences. A maximum of ten (10) graduate mathematics credits can be

concurrently used toward the bachelor's and master's degrees.

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Current enrollment in a Bachelor's degree program in mathematics.
2. Current overall GPA of at least 3.2 and GPA of at least 3.2 in upper division courses.
3. Completion of 75 undergraduate credit-hours.
4. (Verbal and Quantitative) GRE scores with a minimum of 151 in the quantitative portion before entering the MS phase of the program.
5. Approval of the graduate committee.

Completion Requirements

Year 1 and 2:

MAC 2311	Calculus I
MAC 2312	Calculus II
MAC 2313	Calculus III
MAS 3105	Linear Algebra
MAP 2302	Ordinary Differential Equations

Year 3

Fall

MAA 3200	Introduction to Advanced Mathematics
STA 4321	Introduction to Mathematical Sciences I

One course from List 1 or 2

Spring

MAA 4211	Advanced Calculus
MAS 4301	Algebraic Structures

One course from List 1 or 2

Summer

One course from List 1 or 2 and 1 graduate course

Year 4

Fall

MAA 6616	Real Analysis

One course from List 1 or 2

Senior Seminar (1 credit)

Spring

One graduate course

Two courses from List 1 or 2

Summer

Three graduate credits

Year 5

Fall

Nine graduate credits

Spring

Nine graduate credits

The graduate courses distribution should follow catalog descriptions of the master's program requirements. Students must take at least 3 courses from List 1 and at least 3 courses from List 2. The balance of the 140 semester hours required for graduation may be chosen from any courses in the university, a minimum of six (6) of these should be at the upper division level or higher.

List 1

MAD 4203	Introduction to Combinatorics	3
MAA 4402	Complex Variables	3
MTG 3212	College Geometry	3
MAS 4203	Number Theory	3
MAA 4212	Topics in Advanced Calculus	3
MAS 4302	Topics in Algebraic Structures	3
MTG 4302	Topology	3

List 2

MAP 4401	Advanced Differential Equations	3
MAD 3305	Graph Theory	3
MAP 3103	Mathematical Modeling	3
STA 4322	Mathematical Statistics II	3
MAD 3401	Numerical Analysis	3
MHF 4302	Mathematical Logic	3
MHF 4102	Axiomatic Set Theory	3

Doctor of Philosophy in Applied Mathematical Sciences

Admission Requirements

1. Have either a bachelor's or a graduate degree in Mathematics or another quantitative field
2. Have a GPA of at least 3.0 in the bachelor's or Masters' degree
3. GRE test results
4. Official transcripts and least three letters of recommendation.
5. Have received approval of the departmental graduate committee
6. Foreign student whose native language is not English must obtain a score of 80 or higher on the TOEFL iBT (this corresponds to 550 on the old TOEFL test) or 6.3 overall on the IELTS. The University Graduate School has a list of countries that are exempt from this requirement.

Required Core Courses

MAA 6616	Real Analysis	3
MAA 6406	Complex Analysis	3
MAD 5405	Numerical Methods	3
MAP 5316	Ordinary Differential Equations	3
MAP 6326	Partial Differential Equations	3
MAS 5145	Applied Linear Algebra	3
MAP 5255	Scientific Computations	3
MAT 5921	Training in Mathematical Expositions	0

Required Other Courses

MAT 7981	Ph.D. Dissertation	15

Thesis Preparatory Courses

MAA 6506	Functional Analysis	3
MAP 6217	Calculus of Variations	3
MAD 6409	Numerical Methods II	3
MAD 7408	Topics in Numerical Analysis	3
MAP 5415	Introduction to Fourier Analysis	3
MAP 6357	Partial Differential Equations II	3
MAP 7359	Topics in Partial Differential Equations	3
MAP 6218	Stochastic Calculus	3
MAP 5467	Stochastic Differential Equations	3
STA 5446	Probability Theory I	3
STA 5447	Probability Theory II	3
STA 6807	Queuing and Statistical Models	3

Thesis Research Courses

MAT 7908	Independent Study	1-3
MAT 7917	Research Seminar	3
MAT 7980	Dissertation Research	1-9

Course Requirements

The Doctor in Applied Mathematics degree will be made up of the 8 core courses, a minimum of 15 credit hours must be of Ph.D. dissertation course, at least 4 courses (for a subtotal of at least 12 credits) from the thesis preparatory courses list. The remaining 27 credits of the required 75 may be filled by courses from:

1. Any courses from the thesis preparatory courses which are not counted as the four courses. Above, or thesis research courses, or other 6XXX/7XXX courses from the departmental catalog.
2. Courses of level 5000 or higher from Computer Science, Statistics, Physics, Economics, or Engineering approved by the Graduate Committee.
3. If a student has a co-advisor from another department, then at least 6 credits must be taken from the other department.

Graduation Requirements

1. Completing a total of 75 credit hours of course
2. A grade of 'B' or higher in all required core courses and a cumulative average of 3.0 or higher in the 75 credits of coursework.
3. Successful completion of the written portion of the Qualifying Exam. This examination is designed primarily to make sure the student has suitable background knowledge to conduct research in his/her chosen area. The student must pass the written Qualifying Exam by the end of the fifth semester (excluding summers) in the program. Two attempts are permitted. Any exception needs to be approved by the Graduate Committee. The student chooses any two of the following six areas of the exams: (1) Analysis (including both real analysis and complex analysis); (2) Differential Equations (including both Ordinary Differential Equations and Partial Differential Equations); (3) Numerical Analysis; (4) Mathematical Statistics; (5) Algebra (Graduate Algebra and Applied Linear Algebra); (6) Geometry/Topology (Introduction to Algebraic Topology and Differential Geometry).
4. Choosing advisor(s). The student will choose a faculty from the Department of Mathematics and Statistics as their dissertation advisor. A co-advisor could be selected from within the department or from outside.
5. Successful completion of the oral portion of the Qualifying Exam. The student will present and defend an oral examination. The purpose of this exam is to verify that the candidate has chosen a suitable topic for dissertation research and to evaluate the candidate's ability to conduct such research. The student will normally take the oral examination after completion of the core requirements and the written portion of the Qualifying Exam. The oral examination will be conducted by a panel of math faculty including the student's advisor(s). During the oral examination, the candidate presents his/her accomplished and proposed research and answers questions from the panel and others in the audience.
6. Upon completion of the required core courses and passing both portions of the Qualifying Exam, the student can advance to Candidacy.

Dissertation Requirements

1. The student will assemble a Dissertation Committee of at least four faculty members [including advisor(s)], three of whom will be from the Department of Mathematics and Statistics.
2. Submission and defense of a dissertation based upon original research in mathematical science. A dissertation is required of all candidates for the PhD degree and must conform to the format outlined in the Regulations for Thesis and Dissertation Preparation Manual available to students online from the FIU Graduate School.
3. After submission of the dissertation and completion of all other required work for the PhD degree, the candidate will be given a final oral thesis defense examination by the Dissertation Committee. Successful completion of all of these steps will culminate in the granting of the PhD degree.

Master of Science in Statistics

The Master of Science in Statistics at Florida International University is primarily an applied statistics program. It offers a balance of statistical theory, statistical methodology, and optionally, an area application concentration. The program offers a thesis option and a non-thesis option. Regardless of the concentration or thesis option, the program requires a total of 36 credit-hours as follows: six core courses (18 hours), four elective courses or an area of concentration (12 hours), and either a thesis (6 hours) or two additional elective courses (6 hours) and a comprehensive examination.

Admission Requirements

To be admitted into the program, applicants must meet the university's graduate admission requirements (see Office of Graduate Admissions in this catalog), GRE scores are required. However, the GRE requirement can be replaced by any nationally and internationally comparable exams that are approved by the Department's Graduate Committee, such as GEE (Graduate Entrance Exam). If an applicant has an earned graduate degree from an accredited US institution, the Department may waive the GRE requirement. All the applicants must also meet the following departmental requirements:

1. Bachelor's degree in statistics, mathematics, or in a related field from an accredited university or college. A bachelor's degree in some other discipline is also acceptable provided the applicant has a suitable mathematics background.

2. A 3.0 or higher (on a 4-point scale) GPA in mathematics and statistics courses.
3. Three letters of recommendation from persons familiar with the applicant's academic qualifications.
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
5. Approval of the departmental graduate committee.

Core Courses: (18)

STA 5206	Design of Experiments
STA 6244	Data Analysis I
STA 6246	Linear Models
STA 6247	Data Analysis II
STA 6326	Mathematical Statistics I
STA 6327	Mathematical Statistics II

Elective Courses: (12)

A student may select four courses from Lists A, B, and C or may opt for an area of concentration (see below).

Concentration Area: (12)

Students interested in a concentration in Biostatistics/ Environmetrics must select two courses from List A and two track-related electives. At least one of these electives must be from outside the department.

Students interested in a concentration in Reliability Analysis/Quality Control must select two courses from List B and two track-related electives. At least one of these electives must be from outside the department.

All electives must be approved by the Graduate Program Director.

List A: Biostatistics/Environmetrics

STA 5826	Stochastic Processes
STA 6176	Biostatistics
STA 6678	Environmental Statistics

List B: Reliability Analysis/Quality Control

STA 5666	Advanced Quality Control
STA 5676	Reliability Engineering
STA 5826	Stochastic Processes

List C: Elective Statistics Courses

STA 5207	Topics in Design of Experiments
STA 5236	Regression Analysis
STA 5507	Nonparametric Methods
STA 5906	Independent Study
STA 6505	Analysis of Categorical Data
STA 6807	Queueing and Statistical Models
STA 6940	Supervised Statistical Consulting
STA 7707	Multivariate Methods I
STA 7708	Multivariate Methods II

Elective Courses from Outside of the Department

Elective courses from outside of the department must be approved by the Graduate Program Director.

Thesis Option: (6)

Students opting to write a thesis must enroll in STA 6971, Thesis Research and STA 6972, Master's Thesis (6 credit-hours total).

Non-Thesis Option: (6)

Students who opt not to write a thesis must take two additional elective courses selected from List C or from outside of the department. These courses must be approved by the Graduate Program Director.

Graduation Requirements

1. Grade and GPA requirements: a) cumulative GPA of 3.0 or higher in all courses, b) an average grade of "B" or higher in all core courses, with a minimum grade of "C" or higher in each core course, and c) a grade of "C" or higher in each concentration or elective course.
2. A candidate who opts to write a thesis must successfully defend the thesis orally and have the written thesis approved by his/her thesis committee.
3. A candidate who chooses the non-thesis option must take and pass a comprehensive examination. Students must follow all regulations of the University Graduate School.

Course Descriptions

Definition of Prefixes

COT-Computing Theory; MAA-Mathematics: Analysis; MAD-Mathematics: Discrete; MAP-Mathematics: Applied; MAS-Mathematics: Algebraic Structures; MAT-Mathematics; MHF-Mathematics: History and Foundations; MTG-Mathematics: Topology and Geometry; STA-Statistics

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering

COT 5310 Theory of Computation I (3). Abstract models of computation; halting problem; decidability and undecidability; recursive function theory. Prerequisite: MAD 3512.

COT 6400 Analysis of Algorithms (3). Complexity behavior of algorithms is described for Set Manipulation, Graph Theory, and Matrix Manipulation problems, among others. P and NP classes of problems reveal an inherent difficulty in designing efficient algorithms. Prerequisite: COP 3530.

MAA 6616 Real Analysis (3). Function spaces, Lebesgue Measure and Integral with applications, properties of Lp spaces, differentiation, Radon-Nikodym theorem. Prerequisites: MAS 3105, MAA 4211, MAP 4401 or MAA 4212.

MAA 6506 Functional Analysis (3). Normed vector spaces, linear operators, Baire Category theorem, Banach fixed point theorem, Hahn-Banach theorem and applications, open mapping /closed graph theorem with applications, Hilbert spaces. Prerequisites: MAP 5406 AND MAA 6616.

MAD 5405 Numerical Methods (3). Advanced ideas and techniques of numerical analysis for digital computation. Topics include: linear and non-linear systems, ordinary differential equations, continuous system modeling techniques, and languages. Prerequisites: MAS 3105 and MAP 2302.

MAD 6409 Numerical Methods II (3). This course provides an exposure to numerical techniques used in solving partial differential equations of mathematical physics and engineering. Prerequisite: MAD 5405.

MAA 6406 Complex Analysis (3). Harmonic functions, normal families, Riemann mapping theorem, univalent functions, infinite products and entire functions, elliptic functions, analytic continuation. Prerequisites: MAA 4211 and MAA 4402.

MAA 6525 Advanced Topics in Functional Analysis (3). Continuation of MAA 6506. Topics may include distributional theory, monotone operators, variational methods, critical theory and direct application of these techniques. Prerequisite: MAA 6506 (or consent of the instructor)

MAD 6406 Numerical Linear Algebra (3). Topics from numerical linear algebra including solving systems of equations, direct and iterative methods and application, computing eigenvalues and eigenvectors. Prerequisite: MAS 3105 (or consent of the instructor)

MAD 7408 Topics in Numerical Analysis (3). Topics include numerical linear algebra, special methods, finite element methods, computational fluid dynamics, signal and image processing. Prerequisite: MAD 6409 Numerical Methods II.

MAP 5114 Basic Math for Machine Learning (3). A comprehensive and self-contained source of fundamental math tools (from Linear Algebra, Math Analysis, Optimization and Statistics) needed to successfully study and do Machine Learning. Prerequisites: MAS 3105 (Linear Algebra), MAC 2313 (Calculus 3), MAA 4211 (Advanced Calculus).

MAP 5117 Mathematical and Statistical Modeling (3). Study of ecological, probabilistic, and various statistical models. Prerequisites: MAC 2313, COP 2210, MAS 3105; and STA 3033 or STA 3164 or STA 4322.

MAP 5204 Optimization and Linear Algebra (3). Vectors, Euclidean spaces, operations on matrices, rank, determinants, linear and quadratic programming, Kuhn, Tucker techniques for constrained optimization. Prerequisite: MAC 2313.

MAP 5208 Numerical Optimization (3). The generalization of optimization theory and techniques to other formulations comprise a large area of applied mathematics. This course is mainly about convex optimizations. Prerequisites: MAP 2302, MAC 2313, MAS 3105.

MAP 5236 Mathematical Techniques of Operations Research (3). This course surveys the mathematical methods used in operations research. Topics will be chosen from linear programming, dynamic programming, integer programming, network analysis, classical optimization techniques, and applications such as inventory theory. Prerequisites: MAP 5117 and MAS 3105 and either CGS 3420 or COP 2210.

MAP 5255 Mathematical Scientific Computation (3). Programming in Matlab, Graphics in Matlab, Creating GUIs in Matlab, Simulink. Prerequisites: MAC 2313, MAP 2302, MAS 3105.

MAP 5316 Ordinary Differential Equations (3). Existence and uniqueness theorem, matrix formulation, physical applications, regular singular points, autonomous systems, Laplace transform, special topics. Prerequisites: MAA 3200, MAA 4402 and MAS 3105.

MAP 5317 Advanced Differential Equations for Engineers (3). Topics may include Bessel Functions and other special functions arising from classical differential equations, Sturm-Liouville problems, partial differential equations, transform techniques. Credit may not be counted for both MAP 4401 and MAP 5317. Credit for MAP 5317 may not be applied toward the Master's degree in Mathematical Sciences. Prerequisites: MAC 2313 and MAP 2302.

MAP 5318 Dynamical Systems and Introduction to Chaos Theory (3). Important techniques for linear systems of differential equations and nonlinear systems, as well as applications of these systems in a wide variety of fields. Prerequisites: MAS 3105, or equivalent, or permission of the instructor.

MAP 5406 Introduction to Functional and Applied Analysis (3). Metric and normed spaces, Hilbert spaces, fixed point theorems, linear operators, notions of convergence, applications to numerical integration, differential and integral equations. Prerequisites: MAA 4211, MAP 2302, and MAS 3105.

MAP 5414 Fourier Analysis and Wavelets (3). Introduction to Wavelets from Linear Algebra point of view, discrete and fast Fourier transform, data processing, compression of data, other applications to signal and image processing. Prerequisite: MAS 3105, MAA 4211, MAP 2302, MAP 3253 (or consent of the instructor)

MAP 5415 Introduction to Fourier Analysis (3). Basic real analysis, and measure theory, LP spaces and convolution, the Fourier transform in L^2, Plancherel theorem, application to differential equations and wavelets. Prerequisites: Advanced Calculus, Linear Algebra.

MAP 5467 Stochastic Differential Equations and Applications (3). Review of measure theory, stochastic processes, Ito Integral and its properties, martingales and their generalizations, stochastic differential equations, diffusions. Applications to boundary value problems and finance. Prerequisites: MAS 3105, MAP 4401, MAA 4211, MAA 6616 or permission of instructor.

MAP 5620 A Primer on the Mathematics of Environmental Financial Engineering (3). This course is an introductory course that presents the mathematical tools necessary for financial instrument, pricing and hedging design. Prerequisite: Working knowledge of Calculus and Basic Statistics and Probability.

MAP 5629 Quantitative Capstone in Environmental Finance (3). Analyze environmental/social/economic/ financial data to model and implement the structuring, pricing and hedging of creative financial instruments. Prerequisites: MAP 6622 and EVR 5086

MAP 6217 Calculus of Variations (3). Fundamental problems, weak and strong extrema, necessary and sufficient conditions, direct methods, optimal control problems, Pontryagin Maximum principle. Prerequisites: MAP 4401 and MAA 6616.

MAP 6218 Stochastic Calculus (3). Discrete time models, Brownian motion, stochastic integration, ITO's integral, Ornstein-Uhlenbeck processes, Girsanov theorem, Black-Sholes model. Prerequisites: STA 4321 or equivalent.

MAP 6326 Partial Differential Equations (3). Basic concepts of first and second order PDE's applications to optics and wave fronts, Cauchy problem, Laplace equation, Green's function, Dirichlet problem, heat equation. Prerequisite: MAA 4211.

MAP 6357 Partial Differential Equations II (3). Modern aspects of PDEs. Topics include distribution theory, fundamental solutions, maximum principles, Sobolev spaces, initial and boundary value problems. Prerequisites: MAA 6616 and MAP 6326.

MAP 6358 Partial Differential Equations in Fluid Mechanics (3). The mathematical theory for the partial differential equations modeling the inviscid and viscous incompressible fluids, namely, the Euler equations and the Navier-Stokes equations. Prerequisite: MAA 6616 and MAP 6326 (or consent of the instructor)

MAP 6416 Fourier Analysis (3). Continuation of "Introduction of Fourier Analysis" (MAP 5415). Topics may include interpolation, Sobolev spaces, oscillatory integrals, Hilbert transform, singular integrals, Littlewood-Paley theory. Prerequisite: MAP 5415, MAA 6616 (or consent of the instructor). Corequisite: preferred but not required: MAA 6406, MAA 6506.

MAP 6472 Probability and Stochastic Processes (3). This is an introductory course to diffusion processes. The topics include a detailed description of the Brownian motion with a wide range of properties as an example of a Markov process. Knowledge of PDE such as MAP 6326 is preferred but not required. Prerequisite: Consent of the instructor

MAP 6506 Advanced Methods of Mathematical Physics (3). Continuation of Functional Analysis (MAA 6506). Topics include compact and trace class operators, spectral theory, perturbation theory. Previous exposure to MAP 5415 is preferred but not required. Prerequisite: MAA 6406, MAA 6506 or consent of the instructor

MAP 6622 Quantitative Environmental Finance (3). This course presents an introduction to the history, use, design, market venues, pricing and performance of different types of weather derivatives, ESG portfolios, green bonds, real options analysis. Prerequisite: MAP 5620 or MAC 2312 and MAP 2302

MAP 6630 Numerical Methods in Risk Analysis and Management (3). Quadrature methods, numerical solutions to ODEs and PDEs, Monte Carlo method, applications to asset pricing. Prerequisites: Calculus 3, Matrix Algebra, Diff. Equations.

MAP 6631 Intro to Quantitative Risk Analysis and Management (3). A mathematical introduction to arbitrage-based pricing of derivative securities. Prerequisites: MAC 2313, MAS 3105.

MAP 6632 PDE in Risk Analysis and Management (3). Deterministic and stochastic optimization, dynamic programming, Hamilton-Jacob, equation, forward and backward Kolmogorov equation, Feynman-Kac formula. Prerequisites: Stochastic Calculus, Differential Equations, Calculus 3, Matrix Algebra.

MAP 6635 Risk Analysis and Management I (3). Basic probability, Martingales, Black-Sholes models, Black-Sholes formula, American options. Prerequisites: MAC 2313, MAS 3105, STA 4321. Corequisites: STA 4321 or equivalent.

MAP 6636 Risk Analysis and Management II (3). Discrete and continuous time models, application of stochastic integrals and ITO's Lemma to Finance, Risk of Neutral Valuation. Prerequisite: MAP 6635.

MAP 6637 Risk Analysis and Management III (3). Continuous time Risk Management. Arbitrage pricing theory. Exotix options. Interest rate models. Yield curves and pricing of interest rate derivative. Prerequisite: MAP 6636.

MAP 7359 Topics in Partial Differential Equations (0-9). Advanced topics in partial differential equations. Topics may include: fluid mechanics; inverse problems; microlocal and spectral analysis; scattering theory. Can be repeated. Prerequisite: MAP 6357.

MAP 7934 Seminar in Applied Mathematics (0-9). Various topics in applications of mathematics both classical and in areas of current research. Can be repeated for credit. Consent of instructor.

MAS 5145 Applied Linear Algebra (3). Vector spaces and linear maps, solutions of linear systems, orthogonal projection and QR factorization, determinant and eigenvalues of a matrix. Prerequisites: MAS 3105 and MAA 3200.

MAS 5311 Graduate Algebra (3). A study of the basic material on groups, rings and vector spaces. Topics include the Jordan-Holder theorem, structure of modules over Euclidean domains and canonical forms of matrices. Prerequisites: MAS 4301 or equivalent.

MAS 5312 Galois Theory (3). Extension fields, ruler and compass constructions, fundamental theorem of Galois Theory, cyclotomic and cyclic extensions, solutions of equations by radicals, selected topics. Prerequisites: MAS 5311 or permission of the instructor.

MAS 5315 Algebraic Geometry (3). Introduction to the theory of affine and projective schemes, coherent sheaves and sheaf cohomology. Application to studying algebraic varieties. Prerequisites: MAS 4301, MAA 4402.

MAS 5333 Commutative Algebra I (3). Study of regular, Cohen-Macaulay, and Gorenstein rings. Done using "local" and homological methods. Module of Kahler Differentials; integral closure of ideals; Intersection and applications. Prerequisite: MAS 4302.

MAT 5907 Independent Study (VAR). Individual conferences, assigned reading, and reports on independent investigations.

MAT 5921 Training in Mathematical Exposition (0). Students prepare and present supervised lectures on undergraduate mathematical topics to fellow students.

MAT 5970 Master's Research (1-6). Research toward preparation of master's project. Prerequisite: Permission of graduate committee.

MAT 6946 Applied Experience Component (1-3). Consists of a one semester (usually summer) internship at private corporation or government agency. Has three parts: i) weekly colloquia in math-science; ii) internship; iii) presentation after internship. Prerequisite: Permission of the department.

MAT 7908 Independent Study (1-3). For senior Ph.D. students to work on topics where standard courses cannot be opened. Could consist of individual conferences, assigned reading, or independent investigations. Prerequisite: Permission of the Math-Stats department.

MAT 7917 Graduate Research Seminar in Mathematics (3). Under supervision of faculty, students will read and present seminal papers in a field of mathematics. Course will train students reading and comprehension of research articles, and in preparing talks. Prerequisite: Permission of the department.

MAT 7980 Dissertation Research (1-9). Students conduct dissertation research at the doctoral level in mathematics under faculty supervision. Prerequisite: Permission of Instructor (F,S)

MAT 7981 PhD Dissertation (1-12). Original research work toward completion, presentation and defense of a dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy (F,S,SS)

MHF 5107 Graduate Set Theory (3). Zermelo-Frankel axioms, ordinals and cardinals, Godel's constructible universe, large cardinals, forcing and the independence of the Continuum Hypothesis and the Axiom of Choice. Prerequisites: MHF 4102 or MAA 4211 or permission of the instructor.

MHF 5306 Graduate Mathematical Logic (3). First order languages, construction of models from constants, advanced construction of models, non-standard models, recursion theory, RE sets, Turing degrees, oracle construction. Prerequisites: MHF 4302 or permission of the instructor.

MHF 5325 Theory of Recursive Functions (3). Turing machines, decision problems, coding, s-m-n theorem, Rice's and Myhill's theorems, oracles, degrees, finite and infinite injury constructions. Prerequisite: MHF 4302 or COT 5310.

MHF 5345 Mathematical Logic for Linguistics (3). Formal logical systems and applications. Propositional and predicate calculus, proof systems, completeness and incompleteness theorems, recursion. Chomsky hierarchy, formal grammars. Does not fulfill requirements for Mathematics Degree. Prerequisites: MAD 3512 or permission of the instructor.

MHF 5930 Topics in Modern Mathematics (3). Designed to provide student with the opportunity to pursue topics not otherwise covered in other courses. Prerequisites: MAC 2313, MAS 3105.

MTG 5256 Differential Geometry (3). Curves and surfaces in 3-dimensional Euclidean space, Gauss-Bonnet Theorem, Smooth manifolds. Tensors on manifolds, Connections and curvature, Riemannian metrics. Prerequisite: MAC 2313, MAP 2302, MAS 3105 or equivalent

MTG 5257 Differential Geometry II (3). Continuation of "Differential Geometry". Topics include connections and curvature of fiber bundles, Lie groups. Additional topics chosen by the instructor. Prerequisite: MTG 4254 or MTG 5256 (or consent of the instructor)

MTG 5326 Introduction to Algebraic Topology (3). Classification of surfaces, fundamental group, homotopy type, Van Kampen theorem, simplicial complexes, introduction to homology theory. Prerequisites: MAS 4301 and MTG 4302.

MTG 5328 Introduction to Applied Topology (3). Persistence homology and diagrams of families of topological spaces; Stability Theorem; Probability and Statistics on the space of persistence diagrams; Applications to analyzing data. Prerequisite: MAS 3105, MAS 4302, MTG 4302, or equivalent.

MTG 5347 Algebraic Topology II (3). Continuation of "Introduction to Algebraic Topology" (MTG 5256). Topics include singular cohomology, Kunneth, universal coefficient, and duality theorems. Additional topics chosen by the instructor. Prerequisite: MTG 5256 (or consent of the instructor)

MTG 6255 Introduction to Riemannian and Symplectic Geometry (3). Tensors and forms on Smooth manifolds, Curves and surfaces, Riemannian metrics, Connections and curvature of manifolds, Symplectic manifolds, canonical coordinates, Lagrangian submanifolds. Prerequisite: MAS 3105, MAP 2303 and MAA 4211

STA 5065L SAS Data Analysis Lab (1). Entering data, descriptive statistics, graphing data, crosstabulations, t-tests, correlation and regression, and analysis of variance. Prerequisites: A statistics course and graduate standing or permission of the instructor.

STA 5105L SPSS Data Analysis Lab (1). Topics include: Entering data from various sources, data checking, descriptive statistics, graphing data, crosstabulations, t-tests, correlation and regression, ANOVA, and reliability. Prerequisites: A statistics course or concurrent enrollment in a statistics course, and graduate standing or permission of the instructor.

STA 5106 Intermediate Statistics I (3). Power, measures of assoc., measurement, ANOVA: one-way and factorial, between and within subjects expected mean squares, planned comparisons, apriori contrasts, fixed, random, mixed models. This course may be of particular interest to behavioral sciences. Prerequisites: STA 3111 or STA 3123 or STA 3033; and graduate standing. (F)

STA 5107 Intermediate Statistics II (3). Correlation and regression both simple and multiple, general linear model, analysis of covariance, analysis of nominal data, analysis of categorical data. This course may be of particular interest to behavioral sciences. Prerequisite: Permission of the instructor. (S)

STA 5126/PSY 5206 Fundamentals of Design of Experiments (3). CRD and RCB designs. Latin square designs. Factorial, nested and nested-factorial experiments. Fixed, random and mixed models. Split-plot designs. Covariance analysis. Prerequisites: STA 3112 or STA 3123 or STA 3163 or STA 4322 or equivalent.

STA 5206 Design of Experiments I (3). Design and analysis of completely randomized block, Latin square factorial, nested experiments. Multiple comparisons. Credit for only one of three STA 4202, STA 5126, and STA 5206 courses will be granted. Prerequisites: STA 3033 or STA 3164 or STA 4322 or (STA 3163 and STA 4321).

STA 5207 Topics in Design of Experiments (3). This applied course in design of experiments covers topics such as split-plot design, confounding, fractional

replication, incomplete block designs, and response surface designs. Prerequisite: STA 5206.

STA 5236 Regression Analysis (3). Simple, multiple and polynomial regression, analysis of residuals, model building and other related topics. Credit for both STA 4234 and STA 5236 will not be granted. Prerequisites: STA 3112 or STA 3123 or STA 3164, or STA 6167.

STA 5446-STA 5447 Probability Theory I and II (3-3). This course is designed to acquaint the student with the basic fundamentals of probability theory. It reviews the basic foundations of probability theory, covering such topics as discrete probability spaces, random walk, Markov Chains (transition matrix and ergodic properties), strong laws of probability, convergence theorems, and law of iterated logarithm. Prerequisite: MAC 2313.

STA 5507 Nonparametric Methods (3). Distribution-free tests: sign, Mann-Whitney U, Wilcoxon signed rank, Kruskal-Wallis, Friedman, etc. Rank correlation, contingency tables and other related topics. Credit for both STA 4502 and STA 5507 will not be granted. Prerequisite: A course in statistics.

STA 5666 Advanced Statistical Quality Control (3). Review of statistical methods useful in quality improvement. Statistical process control. Taguchi's and Deming's philosophies. Control charts. Process capability analysis. Acceptance sampling plans. Prerequisites: STA 3033 or STA 3163 or STA 4321 or equivalent.

STA 5676 Reliability Engineering (3). The course material is designed to give the student a basic understanding of the statistical and mathematical techniques which are used in engineering reliability analysis. A review will be made of the basic fundamental statistical techniques required. Subjects covered include: distributions used in reliability (exponential, binomial, extreme value, etc.); tests of hypotheses of failure rates; prediction of component reliability; system reliability prediction; and reliability apportionment. Prerequisite: STA 4322.

STA 5800 Stochastic Processes for Engineers (3). Probability and conditional probability distributions of a random variable, bivariate probability distributions, multiple random variables, stationary processes, Poisson and normal processes. Prerequisites: MAC 2313, MAP 2302, STA 3033.

STA 5826 Stochastic Processes (3). This course is intended to provide the student with the basic concepts of stochastic processes, and the use of such techniques in the analysis of systems. Subjects include: Markov Processes, queueing theory, renewal processes, birth and death processes, Poisson and Normal processes. Applications to system reliability analysis, behavioral science, and natural sciences will be stressed. Prerequisite: STA 5447.

STA 5906 Independent Study (1-6). Individual conferences, assigned reading, and reports on independent investigation.

STA 6166 - STA 6167 Statistical Methods in Research I and II (3-3). For non-mathematical sciences graduate students. A non-calculus exposition of methods and applications of statistical techniques for the analysis of data. Statistical packages will be used. Prerequisite: Graduate standing. (F,S)

STA 6176 Biostatistics (3). Statistical analysis of data encountered in medical sciences. Analysis of count data, Kaplan-Meier survival analysis, Cox proportional hazards model, analysis of covariance, logistic regression, etc. Prerequisites: STA 3163 or equivalent.

STA 6196 Statistics for Environmental Sciences (3). Environmental Quality Data, Binomial, Poisson, Normal, Lognormal, and Extreme value distributions. Prediction and Tolerance Intervals, Hypothesis Testing of Environmental Quality Data, Risk Assessment, Regression, Spatial Statistics. Prerequisites: STA 2122, STA 3145, STA 6166 or the equivalent.

STA 6244 Data Analysis I (3). Exploratory data analysis; testing of distributional assumptions; Chi-square tests, tests for means, variances, and proportions. Prerequisites: STA 3033, STA 4322, or STA 6327.

STA 6246 Linear Models (3). Introduction to the theory of linear models. Distribution of linear and quadratic functions of normal vectors. Development of inferential procedures for simple and other more complex linear models Prerequisites: MAS 3105, STA 6247, and STA 6327.

STA 6247 Data Analysis II (3). Analysis of variance, regression analysis. Analysis of covariance, quality control, correlation, empirical distributions. Prerequisites: MAS 3105 and STA 6244.

STA 6326 Mathematical Statistics I (3). An introduction to the theories underlying statistical analysis. Basic concepts of probability theory, combinatorial analysis, random variables, and expectation. Prerequisite: MAC 2313.

STA 6327 Mathematical Statistics II (3). Estimation of parameters, tests of hypotheses, regression, non-parametric methods, analysis of variance, and multivariate concepts. Prerequisite: STA 6326.

STA 6505 Analysis of Categorical Data (3). Analysis of contingency tables, measures of association, logit and loglinear models. Prerequisites: STA 5107 or STA 5236 or STA 6167.

STA 6636 High Dimension Data Analysis (3). Statistical techniques used to analyze high dimensional data sets. Topics include machine learning, high dimensional data, discriminant analysis and clustering. Prerequisites: STA 6246 and STA 5236 or equivalent.

STA 6678 Environmental Statistics (3). Review of probability theory and probability processes. Bernoulli, Poisson, and normal processes. Dilution of pollutants. Lognormal processes. Prerequisites: MAC 2312 and STA 3164.

STA 6746 Multivariate Statistical Analysis (3). Multivariate normal, Wishart and Hotelling's distributions. Statistical inferences based on one or two samples. MANOVA. Principal component analysis, factor analysis, and cluster analysis. Prerequisites: STA 3112 or STA 3123 or STA 6167.

STA 6807 Queueing and Statistical Models (3). Review of probability concepts, basic probability distributions, Poisson process, queuing models, statistical models.

Prerequisites: Permission of the instructor, MAC 2312 and either STA 3033 or STA 4321.

STA 6930 Special Topics (3). A course designed to give students an opportunity to pursue special studies not otherwise offered in the curriculum. May be repeated. Prerequisite: Permission of the instructor.

STA 6940 Supervised Statistical Consulting (3). Formulation of statistical problems from client information, consulting session management, interpersonal aspects of consulting, problem solving techniques. Prerequisites: Permission of the instructor, STA 4102, STA 6247, and STA 6327.

STA 6870 Time Series Analysis (3). Stationarity, autocorrelation, autoregressive moving average (ARIMA) models; partial autocorrelation; statistical inference and R; non-stationarity; seasonality; forecasting; spectral methods. Prerequisite: STA 4322 or equivalent

STA 6971 Thesis Research (1-6). Supervised research on theoretical or applied statistics leading to a thesis. Repeatable. Prerequisite: Permission of student's program committee.

STA 6972 Master's Thesis (1-6). Thesis completion and submission in partial fulfillment of Master's degree requirements. Prerequisite: Permission of student's program committee.

STA 7707 Multivariate Methods I (3). Multivariate normal, Wishart and Hotelling's distributions. Inferences for one and two mean vectors. Profile analysis. One- and two-way MANOVA. Multivariate multiple regression. Prerequisites: STA 3112 or STA 3123. (F)

STA 7708 Multivariate Methods II (3). Principal components analysis. Factor analysis. Canonical correlation analysis. Discriminant analysis. Cluster analysis. Multidimensional scaling. Prerequisite: STA 7707. (S)

STA 7980 PhD Dissertation (0-15). Original research work toward completion, presentation, and defense of a dissertation. Prerequisite: Doctoral Candidacy and Permission of Major Professor (F, S. SS)

Physics

Tigran Abrahamyan, *Assistant Teaching Professor*
Asa Bluck, *Assistant Professor*
Werner Boeglin, *Professor and Chairperson*
Richard A. Bone, *Professor*
Prem Chapagain, *Professor*
Wim Cosyn, *Assistant Professor*
Yesim Darici, *Professor*
Rudolf Fiebig, *Professor Emeritus*
Bernard Gerstman, *Professor*
Lei Guo, *Associate Professor*
Kenneth Hardy, *Professor Emeritus*
Jin He, *Associate Professor*
Kamal Kadel*, Assistant Teaching Professor*
Laird H. Kramer, *Professor*
Angela Laird, *Professor*
Robert Laird, *Clinical Professor*
Veronique Lankar, *Associate Teaching Professor*
Hebin Li, *Associate Professor*
Wenzhi Li, *Professor*
Pete C. Markowitz, *Professor*
Oren Maxwell, *Professor Emeritus*
Stephan L. Mintz, *Professor Emeritus*
Rajamani Narayanan, *Professor*
Geoff Potvin, *Associate Professor*
Brian A. Raue, *Professor*
Jorge Reinhold, *Professor*
Jorge L. Rodriguez, *Associate Professor and Graduate Program Director*
Misak Sargsian, *Professor*
Caroline E. Simpson, *Professor*
Fiorella Terenzi, *Associate Teaching Professor*
Walter Van Hamme, *Professor*
Xuewen Wang, *Associate Professor*
James R. Webb, *Professor*
Yifu Zhu, *Professor*

Departmental information available at:
http://physics.fiu.edu

Master of Science in Physics

The Master of Science in Physics is a 45 semester hour program consisting of course work at the 5000 and 6000 level and research with one of the departmental research groups culminating in a master's thesis. Students entering the program must have a bachelor's degree or equivalent course work in Physics.

Doctoral candidates who have filed the D-2 and D-3 forms with the University Graduate School can receive a Master of Science in Physics en route to the PhD after completion of 45 hours of graduate coursework.

Graduate Admission Requirements

For admission to the graduate programs, a Bachelor's degree in physics is required with a minimum undergraduate GPA of 3.0. The GRE is required. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Required Courses

PHY 5115	Mathematical Physics I	3
PHY 5240	Advanced Classical Mechanics	3
PHY 5346	Advanced Electromagnetic Theory I	3
PHY 5347	Advanced Electromagnetic Theory II	3
PHY 6645	Advanced Quantum Mechanics I	3
PHY 6646	Advanced Quantum Mechanics II	3
PHY 6936	Advanced Topics	3
PHY 6524	Statistical Physics	3
PHY 6935	Graduate Research Seminar	
	OR	
PHY 5930	Seminar in Physics	3-6

In addition, three semester hours of specialized course work are required in the student's area of specialization and 12-15 hours of thesis work for a total of 45 hours.

Doctor of Philosophy in Physics

The Doctor of Philosophy in Physics program requires 80 credit hours at the graduate level, including a minimum of 15 credit hours of dissertation research. A maximum of 36 credits may be transferred from a completed graduate program with the approval of the Graduate Committee.

Graduate Admission Requirements

For admission to the graduate programs, a Bachelor's degree in Physics is required with a minimum undergraduate GPA of 3.0. The GRE is required. The GRE advanced is recommended. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Required Courses

1. All Required Courses for the Master of Science in Physics program listed above.
2. Three additional 3-credit courses at the graduate level (5000 or higher) within Physics or other unit with the approval of the Graduate Program Director.

All doctoral candidates must take a Ph.D. comprehensive exam. This exam is designed to test general knowledge of physics at the advanced undergraduate and first-year graduate level and must be passed not later than the beginning of the third year enrolled in the program. Within two years of entering the program, students must submit to the Graduate Committee their choices of research and advisor. Course work and research programs shall be planned with the advice and approval of the advisor. After passing the comprehensive exam and prior to or during the first semester of the fourth year enrolled in the program, a student must also take a candidacy exam which tests the ability to conduct research in a particular field, as well as the ability to present the results of that research in an organized and coherent manner.

Course Descriptions

Definition of Prefixes

AST-Astronomy; PHY-Physics; PHZ-Physics
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

AST 5215 Stellar Astrophysics (3). Topics in Stellar Astrophysics, in greater detail and depth than similar

topics in AST 3213. Emphasis on current stellar structure, evolution models and the underlying observational data. Prerequisites: PHY 3107, PHY 3503, PHY 4324, PHY 4222 or equivalent. (F or S)

AST 5405 Extragalactic Astrophysics (3). Topics in extragalactic astrophysics, in greater detail and depth than similar topics in AST 3213. Emphasis on galactic structure and evolution, quasars and cosmology. Prerequisites: PHY 3107, PHY 3503, PHY 4324, PHY 4222 or equivalent. (For S)

AST 5507 Celestial Mechanics (3). Principles of classical Newtonian mechanics applied to the motions of planets, satellites, and interplanetary space probes. Prerequisites: PHY 4222 or equivalent. (F or S)

PHY 5081 Graduate Problem Solving in Physics (3). A comprehensive review of methods and strategies in problem solving targeted at students in a physics graduate program The course is designed to prepare students for their PhD qualifying exams. Prerequisite: PHY 5240, PHY 5347

PHY 5115 Mathematical Physics I (3). Methods of solution for problems in mathematical physics: Variational principles, complex variables, partial differential equations, integral equations, and transforms. Prerequisites: MAC 2313, MAP 2302. (F)

PHY 5116 Mathematical Physics II (3). Additional solution methods in mathematical physics: Perturbation methods, Laplace's and Poisson's Equations, waves, special functions, vector fields, vector waves. Prerequisite: PHY 5115. (S)

PHY 5141 Intermediate Modern Physics I (3). Prepares advanced undergraduate and beginning graduate student research preparation in atomic, molecular, or optical physics. Topics may be adapted to students' research interests. Prerequisite: Permission of Instructor.

PHY 5142 Intermediate Modern Physics II (3). Continuation of advanced undergraduate and beginning graduate student research preparation in atomic, molecular, optical or nuclear physics. Topics may be adapted to students' research interests. Prerequisite: Intermediate Modern Physics I.

PHY 5156C Physics Modeling II (4). Expanding the modeling guided-inquiry approach in Physics Modeling I to topics beyond mechanics such as electricity, magnetism, light, or modern physics. May be repeated for credit. Prerequisites: PHZ 5155C and permission of the instructor.

PHY 5235 Nonlinear Dynamics and Chaos (3). Introduction to the universal behavior of classical systems described by nonlinear equations. Prerequisites: PHY 4222, MAA 4211. (F or S)

PHY 5240 Advanced Classical Mechanics (3). Advanced formulations of the equations of motion and their applications: the central field problem, rigid body dynamics, oscillations and continuous systems. Prerequisite: PHY 4222. (F)

PHY 5346 Advanced Electromagnetic Theory I (3). Advanced treatment of classical electromagnetism: Electrostatics, Green's function, Laplace's equation, multipole expansion, magnetostatics, Maxwell's equations, waves. Prerequisite: PHY 4324. (F)

PHY 5347 Advanced Electromagnetic Theory II (3). Additional topics in classical electromagnetism: Wave guides, radiating and diffracting systems, Kirchoff's integral for diffraction, covariant formulation of field equations. Prerequisite: PHY 5346. (S)

PHY 5446 Laser Physics (3). Principles of lasers and laser applications, including atom-field interactions, stimulated emission and dipole oscillators, optical resonators and electromagnetic modes, semi-classical laser theory, and specific laser systems. Prerequisite: PHY 4605. (F or S)

PHY 5466 The Physics of Music (3). Provides music technology majors a physical understanding of sound, sound generation and reproduction. Concentrates mainly on physical principles and less on calculation. Prerequisite: Permission of Instructor.

PHY 5667 Nonperturbative Quantum Field Theory (3). Euclidean QFT, renormalization group, local gauge symmetry, lattice regularization, Wilson action, fermion fields, expansion schemes, numerical algorithms, hadron properties, recent developments. Prerequisite: PHY 4605.

PHY 5930 Seminar in Physics (1-3). A series of specialized lectures/seminars on selected topics in Physics/Astro-Physics. Prerequisite: Permission of the department.

PHY 5936 Special Topics Research (1-10). Participation in an original investigation in theoretical or experimental physics/astro-physics under direct faculty supervision. Prerequisite: Permission of the instructor.

PHY 5937, PHY 5938 Seminar in Special Topics (3). Seminar work under the supervision of a faculty member on subject material of mutual interest.

PHY 5940 Physics Graduate Teaching Workshop (1). The teaching of physics laboratories. Includes practice of lab experiments, use and adjustment of lab equipment and explanation of departmental grading policy. Supplemented by outside lectures on university policies. (F)

PHY 6524 Statistical Physics (3). Fundamental principles of statistical mechanics; fluctuations, noise and irreversible thermodynamics; kinetic methods and transport theory. Prerequisites: PHY 3503 and PHY 4222. (S)

PHY 6645 Advanced Quantum Mechanics I (3). Advanced topics in quantum mechanics: Quantized systems, relativistic quantum mechanics, potential scattering. Prerequisite: PHY 4605. (F)

PHY 6646 Advanced Quantum Mechanics II (3). Additional topics in advanced quantum mechanics: Collision theory, symmetry transformations, conservation laws, group theory. Prerequisite: PHY 6645. (S)

PHY 6651 Quantum Scattering Theory I (3). The investigation of atomic and electronic scattering processes: Potential scattering, long range potentials, electronatom collisions. Prerequisite: PHY 6645.

PHY 6652 Quantum Scattering Theory II (3). The mathematical investigation of scattering processes: Auto-

ionization, fast vs. slow collisions, Regge poles, S and T matrices. Prerequisite: PHY 6651.

PHY 6668 Relativistic Quantum Field Theory I (3). Introduction to relativistic quantum fields: General formalism, Klein-Gordon field, Dirac field, vector fields, interacting fields, CPT theorem, reduction formulae, gauge theory. Prerequisite: PHY 6646.

PHY 6669 Relativistic Quantum Field II (3). Additional topics in relativistic quantum fields: perturbation theory, U matrix, Wick's theorem, dispersion relations, renormalization, Ward identity, renormalization group, path integral formalism. Prerequisite: PHY 6668.

PHY 6675 Quantum Theory of Many Particle Systems I (3). An introduction to the physics of many particle systems: Second quantization, Fock spaces, Boson and Fermion symmetry, Gell-Mann-Low theorem, diagrammatic expansions, Goldstone theorem. Prerequisite: PHY 6646.

PHY 6676 Quantum Theory of Many Particle Systems II (3). Additional topics in the physics of many particle systems: Fermi gas, Bose condensation, Hartree-Fock approximation, random phase approximation, finite temperature formalism, hadrons. Prerequisite: PHY 6675.

PHY 6716 Advanced Biophysics (3). Thermodynamics, statistical physics, and the non-linear dynamics of self-organization will be used to investigate the molecular origin of life and neural pattern formation leading to consciousness.

PHY 6935 Graduate Research Seminar (1). Seminars presented by students, faculty, and visitors on a variety of topics of current research interest. Repeatable. Required every semester. (F and S)

PHY 6936 Advanced Topics in Physics (3). Advanced applications in the fields of Nuclear and Particle Physics, Astrophysics, Solid State Physics, Biophysics and Atomic Physics. Includes perturbations theory, statistical methods, and simulation methods. Repeatable for credit. Prerequisite: PHY 6646.

PHY 6939 Graduate Research (1-10). Research at the graduate level in theoretical or experimental physics under faculty supervision, repeatable. Prerequisite: Permission from supervising faculty.

PHY 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. Repeatable. Prerequisite: Permission of the department. (F,S)

PHY 6971 Master's Thesis (3). Theoretical and/or experimental research leading to thesis. Prerequisite: Permission of major professor. (F,S)

PHY 7910 Dissertation Research (1-9). Students conduct dissertation research at the doctoral level in theoretical or experimental physics under faculty supervision. Prerequisite: Permission of the instructor. (F, S)

PHY 7981 Ph.D. Dissertation (1-12). Original research work towards completion of dissertation and presentation and defense of dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

PHZ 5130 Theoretical Treatment of Experimental Data (3). Statistical analysis of physical processes and statistical tests, with particular emphasis on instrumentation-related problems. Mathematical modeling and computer simulation. Prerequisites: Undergraduate statistics course, or equivalent, or permission of the instructor.

PHZ 5155C Physics Modeling I (4). An inquiry physics-teaching approach incorporating physics education research. Emphasis on basics models in mechanics, scientific discourse, and student learning assessment. May be repeated for credit. Prerequisite: Permission of the instructor.

PHZ 5156 Computational Physics I (3). Physical systems by means of computer simulation. Monte Carlo, molecular dynamics, percolation, random systems, chaos, criticality, gauge fields. Prerequisites: PHY 5115 and PHY 5116.

PHZ 5157C Computational Physics II (3). Advanced computer simulation methods of physical systems. Application in chaos, nonlinear and random systems, criticality, field theory and practices. Prerequisite: PHZ 5156. Corequisites: PHY 5115 and PHY 5116.

PHZ 5234 Atomic and Molecular Collision Phenomena (3). Investigation of atomic and molecular collision phenomena: Kinetic theory, elastic scattering, inelastic scattering, excitation and ionization, heavy particle collisions. Prerequisites: PHY 4605 and PHY 4222. (F or S)

PHZ 5304 Advanced Nuclear Physics (3). The fundamental properties of nuclei, nuclear forces, nuclear models, radioactivity, weak processes, and nuclear reactions. Prerequisite: PHY 4604. Corequisite: PHY 4605. (F or S)

PHZ 5340 Particle Interactions and Detection (3). Subatomic particle detectors and the utilization of physics in practical instrumentation applications in medical physics. The course will include laboratory exercises using various detectors. Prerequisites: PHY 3107 or permission of Instructor.

PHZ 5370 Nanoscience (3). Overview of the nanoscience with emphasis on physical properties, such as electrical, magnetic and optical properties, of nanomaterials. Prerequisites: PHY 3106, PHY 3107.

PHZ 5405 Solid State Physics (3). Crystalline form of solids, lattice dynamics, metals, insulators, semi-conductors, crystalline surfaces, and amorphous materials. Prerequisites: PHY 3107 or CHM 3411.

PHZ 5505 Low Energy Plasma Physics (3). The investigation of the kinetics of rarefied gases and thermal plasmas: Phase space, random currents, orbit theory, plasma sheaths, radiation, the pinch effect. Prerequisites: PHY 3503, PHY 4324, and PHY 4222.

PHZ 5506 Plasma Physics (3). An introduction to plasma fundamentals, the Boltzmann equation, the hydrodynamic equations, orbit theory, the interaction of electromagnetic waves with plasmas, the pinch effect and instabilities. Prerequisite: PHY 3049. (F or S)

PHZ 5606 Special Relativity (3). A detailed study of special relativity: Lorentz transformations, relativistic electrodynamics. Prerequisite: PHY 3107.

PHZ 5607 General Relativity (3). General relativity using differential geometry and tensor analysis. Topics include Einstein's field equations and their solutions, applications and observational tests. Black Holes and cosmology are also discussed. Prerequisites: PHY 4222 and PHY 4605.

PHZ 5705 Biomedical Physics (3). Physics principles applied to biology and medicine; transport through cell membranes, biochemical signaling, thermodynamics, neurons, biomechanics, biofluid flow, bioelectrical signals. Prerequisite: PHY 3107.

PHZ 5730 Biophysical Effects of Radiation (3). Biological effects resulting from interactions of radiation and matter for scientifically, technically, and medically oriented students. Prerequisite: PHY 3107.

PHZ 5732 Clinical and Medical Dosimetry (3). Practical patient dosimetry problems in radiation oncology. Irregular field calculations, two-and three-dimensional treatment planning, isodose distribution, dose rate brachytherapy planning. Prerequisite: PHY 3107.

PHZ 5734 Nuclear Medicine Physics (3). The nuclear physics principles of diagnostic and therapeutic applications of radionuclides, radiation beams, with lab activities in facility design, instrumentation essentials, quality assurance. Prerequisite: PHY 3107.

PHZ 5736 Therapeutic Radiological Physics (3). Production, application, and measurement of electromagnetic radiation and particle beams in therapeutic practice. Conceptual, instrumental, and methodological aspects of therapeutic radiology. Prerequisite: PHY 3107.

PHZ 5945 Clinical Experience in Medical Physics (3). Arranged through the Physics Department at local institutions e.g. hospitals, treatment centers, etc., this course places students in clinical medical physics facilities. Prerequisite: PHY 3107.

PHZ 6255 Molecular Biophysics (3). The use of theoretical physics techniques to investigate biological systems: Protein structure and dynamics, electron tunneling, nuclear tunneling, hemoglobin, photosynthesis, vision. Prerequisite: PHY 4605. (F or S)

PHZ 6326 Low Energy Nuclear Physics I (3). Introduction to the physics of nuclei and nuclear processes: Nuclear forces, scattering processes and nuclear models. Prerequisite: PHY 4605.

PHZ 6327 Low Energy Nuclear Physics II (3). Additional topics in nuclear physics: The shell and collective models, nuclear reactions and applications, scattering theory, entrance channel phenomena, rearrangement collision and breakup reactions. Prerequisite: PHZ 6326.

PHZ 6354 Introduction to Particle Physics (3). An introduction to modern particle theory: Elementary field theory, symmetries, quantum electrodynamics, quark-parton model, quantum chromodynamics, Weinberg-Salam model. Prerequisite: PHY 6646.

PHZ 6355 High Energy Hadronic Physics (3). Physics of quark-gluon structure of strongly interacting matter. Introduces the basic methods of high energy hadronic and nuclear physics, the quark model of hadrons, and the partonic model of deep-inelastic scattering. Prerequisite: Graduate standing.

PHZ 6359 Quantum Gauge Field Theories (3). Basics in field quantization, nonabelian symmetries, the standard SU(3)xSU(2)xU(1) model, non-perturbative features, lattice regularization and numerical simulation. Prerequisites: PHY 4605, PHY 5346. (F or S)

PHZ 6396 Advanced Nuclear and Particle Physics (3). Nuclear and particle physics, nuclear forces, reactions and kinematics, deep inelastic scattering, partons QCD, nuclear and particle astrophysics, quark gluon plasma. Prerequisite: PHY 4604.

PHZ 6426 Advanced Solid State Physics (3). Electronic structures of solids and surfaces, electron-electron interaction, superconductivity, magnetism in solids, amorphous systems, glasses, polymers, percolation, localization, phase transition, fractals. Prerequisites: PHY 4324 and PHY 4605. (F or S)

PHZ 6437C Surface Physics (3). An introduction to theoretical and experimental techniques AES (Auger Electron Spectroscopy), LEED (Low Energy Electron Diffraction), XPS (X-ray Photoelectron Spectroscopy), AFM (Atomic Force Microscopy) and STM (Scanning Tunneling Microscopy). Prerequisites: PHZ 5405 or permission of the instructor.

PHZ 6706 Physics of Cognitive Neuroimaging Methods I (3). Physical principles of data acquisition methods in cognitive neuroimaging, including techniques from nuclear medicine, electrophysiology, and magnetic resonance imaging.

PHZ 6707 Physics of Cognitive Neuroimaging Methods II (3). Physical principles of data analysis methods in cognitive neuroimaging, including image pre-processing, statistical modeling, brain connectivity techniques, and the visualization, interpretation, and reporting of results. Prerequisite: PHZ 6706.

Psychology

Jeremy Pettit, *Professor*
Carla Abad, *Assistant Teaching Professor*
Leila Allen, *Assistant Teaching Professor and Director of BS in Behavioral Neuroscience*
Timothy Allen, *Associate Professor*
Lisa Arango, *Teaching Professor*
Daniel Bagner, *Professor*
Lorraine Bahrick, *Distinguished University Professor*
Marie Barnes, *Assistant Teaching Professor*
Leonard Bickman, *Research Professor*
Valentina Bruk-Lee, *Associate Professor*
George Buzzell, *Assistant Professor*
Steve Charman, *Associate Professor*
Maricel Cigales, *Teaching Professor and Associate Dean, College of Arts, Sciences and Education*
Jonathan Comer, *Professor*
Stefany Coxe, *Associate Professor*
Anthony Dick, *Professor*
Marvin Dunn, *Professor Emeritus*
Asia Eaton, *Associate Professor*
Joan Erber, *Professor Emeritus*
Jacqueline Evans, *Associate Professor*
Ronald Fisher, *Professor*
Leslie Frazier, *Associate Professor*
Stacy Frazier, *Professor*
Jami Furr, *Clinical Assistant Professor*
Arlene Garcia, *Assistant Teaching Professor*
Deborah Goldfarb, *Assistant Professor*
Raul Gonzalez, *Professor*
Paulo Graziano, *Professor*
Katie Hart, *Associate Professor*
Samuel Hawes, *Research Assistant Professor*
Timothy Hayes, *Assistant Professor*
Maureen Kenny, *Professor*
Mary Levitt, *Professor Emeritus*
Lu Liang, *Assistant Teaching Professor*
Robert Lickliter, *Professor*
Tara Loughrey, *Assistant Teaching Professor*
Aaron Mattfeld, *Associate Professor*
Dana McMakin, *Professor*
Logan McDowell, *Assistant Teaching Professor*
Erica Musser, *Associate Professor*
Eliza Nelson, *Associate Professor*
Mei Yi Ng, *Assistant Professor*
Kristin Nichols-Lopez, *Associate Teaching Professor, Associate Chair*
Janat Parker, *Professor Emeritus*
Julia Parker, *Assistant Teaching Professor*
Paloma Pedraza, *Assistant Teaching Professor*
William Pelham, Jr., *Distinguished Professor and Director, Center for Children and Families*
Shannon Pruden, *Associate Professor and Director of Graduate Studies*
Joseph Raiker, *Associate Professor*
Angela Reaves, *Assistant Teaching Professor*
Maria Reid, *Assistant Teaching Professor*
Rachel Ritchie, *Associate Teaching Professor and Director of Undergraduate Studies*
Emanuele Rizzi, *Assistant Teaching Professor*
Suzanna Rose, *Professor and Associate Provost*
Rosemary San Nicolas, *Assistant Teaching Professor*
Bennett Schwartz, *Professor*
Nicole Schatz, *Research Assistant Professor*
Nadja Schreiber Compo, *Professor*
Maria Shpurik, *Associate Teaching Professor*
Fabian Soto, *Associate Professor*
Dionne Stephens, *Professor*
Matthew Sutherland, *Associate Professor*
Paige Telan, *Teaching Professor*
James Todd, *Research Assistant Professor*
Elisa Trucco, *Associate Professor*
Matthew Valente, *Assistant Professor*
Chockalingam Viswesvaran, *Professor*
Ryan Winter, *Associate Teaching Professor*
Chit Yuen Yi, *Assistant Teaching Professor*

Master of Science in Cognitive Neuroscience

Admission Requirements*

Students will apply and be admitted directly to the doctoral program in Cognitive Neuroscience based on the following criteria (applications will not be accepted and students will not be admitted for a terminal M.S. degree):

To be admitted into the Cognitive Neuroscience doctoral program, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores.
3. Have completed an undergraduate or graduate research methods course as a prerequisite.
4. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
5. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
6. Receive approval from the Departmental Graduate Education Committee.
7. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.

*These are minimum requirements. Admission is competitive.

Degree Requirements

The M.S. in Cognitive Neuroscience requires a minimum of 36 semester credits of graduate work beyond the baccalaureate, including a master's project based upon the student's original research. A maximum of 6 credits of post-baccalaureate course work may be transferred from another institution with the approval of the program director. M.S. in Cognitive Neuroscience students are required to complete the following minimum requirements. The remaining credits to complete the post-baccalaureate 36-credit requirement can be drawn from supervised research, directed individual study, electives, or the PSY 5938 Current Topics in Neuroscience Series.

1. **Common core courses in Statistics/Methodology** (Minimum 9 credits)
   Students must take all three of the following 3-credit courses or a course approved by the program director:
   - PSY 5939 Special Topics in Psychology (Quantitative Methods I)
   - PSY 5939 Special Topics in Psychology (Quantitative Methods II)
   - PSY 5246C Multivariate Analysis in Applied Psychological Research
2. **Cognitive Neuroscience (CN) Content Courses** (Minimum 6 credits)
   Students must take 2 courses drawn from the following 3-credit courses or a course approved by the program director:
   - DEP 5058 Biological Basis of Behavior Development
   - EXP 5667 Cognitive Neuroscience
   - EXP 5508 Applied Cognitive Psychology
   - EXP 5527 Memory and Consciousness
   - PSB 6247 Biological Bases of Behavior
   - PSB 6215 Human Neuroanatomy
   - CBH 5256 Animal Cognition
   - CLP 6426 Neuropsychology
   - PSB 6350 Cognitive Neuroimaging Methods I
   - PSB 6351 Cognitive Neuroimaging Methods II
   - PSB 5115 Introduction to Psychophysiology: Basics of Electroencephalography and Event-Related Potentials
   - PSB 6035 Introduction to Computational Cognitive Neuroscience
   - PSB 5247 Neurobiology of Learning and Memory
3. **Electives** (Minimum 3 credits approved by the program director)
   - Students may choose electives from the list of content courses provided above or identify electives outside of the department based on their research interest.
4. **Current Topics** (Variable Credits)
   - Students must take PSY 5938 Current Topics in Neuroscience Series (0-1) every Fall and Spring while enrolled in the Doctoral Program.
5. **Master's Project** (6 Credits PSY 5918 Supervised Research)

Master of Science in Psychology: Major in Behavior Analysis

The Behavior Analysis area focuses on the experimental, theoretical, methodological, and applied analysis of behaviors of individuals, their antecedents and their consequences, and how the changes are produced that denote different types of learning or learning problems. The processes at issue have become efficient bases for understanding, and for changing, conduct problems and such behavioral disorders as are termed Autism Spectrum Disorder. Students completing the M.S. degree, and having received the required amount of supervised hands-on experience with clients, may qualify to sit for the Board Certified Behavior Analyst (BCBA) examination.

The Behavior Analysis major consists of core, knowledge-based, courses and a selection of seminars for specialization and practical experience. Student research collaboration and idea sharing are often an intended byproduct of such courses. Activity in individual or partnered research projects is encouraged. Also encouraged are involvements in program events, regional and national conference attendance and presentations, and applied clerkships and internships. There are opportunities for students to gain firsthand experience in practice and internships with organizations providing applications and therapy.

Admission Requirements*

To be admitted into the Master's degree program in Behavior Analysis, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores.
3. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
4. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
5. Receive approval from the Departmental Graduate Education Committee.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Master of Science in Behavior Analysis requires a minimum of 45 semester credits of graduate work beyond the baccalaureate. Students must maintain a minimum overall GPA of 3.0 and earn at least a B- in all courses. If a grade lower than a B- is earned, the student may be allowed to repeat the course, at the discretion of the program.

Required Courses

The Master's requires 45 credit hours beyond the Bachelor's degree. This includes 6 credits of departmental common core requirements for the M.S. degree. Students complete practical experience and an applied research project.

1. Common core (statistics/methodology) courses (6 credits)
2. Behavior analysis content courses (21 credits drawn from the following list of 3 credit courses, and approved by the program director):

EAB 6770	Behavior Technologies
EAB 5701	Behavior Assessments
EAB 5797	Single-Case Research Methods
EAB 6005	Advanced Concepts and Principles of Applied Behavior Analysis
EAB 6717	Science and Practice of Verbal Behavior
EAB 5700	Introduction to the Concepts and Principles of Applied Behavior Analysis
EAB 6780	Ethical Code in Behavior Analysis

3. A combined 9 credits in the courses below:

EAB 5XXX*	Supervised Research in Behavior Analysis
EAB 5XXX*	Special Topics in Behavior Analysis

4. EAB 6941 Practicum in Behavior Analysis (9 credits)

*The program will enroll students in the proper number of credits.

Master of Science in Psychology: Major in Clinical Science in Child and Adolescent Psychology

The clinical science in child and adolescent psychology major is consistent with the clinical science model of clinical psychology training articulated by the Academy of Psychological Clinical Science. Clinical Science is defined as a "psychological science directed at the promotion of adaptive functioning; at the assessment, understanding, amelioration, and prevention of human problems in behavior, affect, cognition or health; and at the application of knowledge in ways consistent with scientific evidence." The emphasis on the term "science" underscores the commitment to evidence based approaches to the assessment and treatment of human problems, as well as the integration of research and theory of other relevant sciences. The emphasis on the term "science" also underscores that training students in clinical science focuses on training students for careers in which they skillfully produce, and/or apply scientific knowledge. The focus of the major is on child, adolescent and family clinical psychology within a multicultural context.

Admission Requirements*

Students will apply and be admitted directly to the doctoral program in Clinical Science in Child and Adolescent Psychology based on the following criteria (applications will not be accepted and students will not be admitted for a terminal M.S. degree).

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 GPA or higher during the last two years of the undergraduate program and a combined score (verbal and quantitative) of 300 or higher on the Graduate Record Exam.
3. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
4. Receive approval from the Department Graduate Education Committee.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Master of Science Major in Clinical Science requires a minimum of 36 semester credits of graduate work beyond the baccalaureate, including a non-thesis research project based upon the student's original research. A maximum of 6 credits of post-baccalaureate course work may be transferred from another institution with the approval of the Director of Clinical Training.

Required Courses

In order to obtain their M.S., clinical science doctoral students will be required to complete 6 credits of departmental common core course requirements, along with more specialized content courses and a course involving directed independent effort, as listed below:

1. Common core requirements (9 credits of statistics/methodology courses)

PSY 5939 Special Topics in Psychology: Quantitative Methods I
PSY 5939 Special Topics in Psychology: Quantitative Methods II
PSY 3246 Multivariate Statistics

2. Clinical Science core courses (12 credits)

CLP 5007 Psychological Clinical Science I: Historical Perspectives and Current Controversies of Psychopathology
CLP 6471 Assessment and Treatment i: Internalizing Problems
CLP 6472 Assessment and Treatment II: Externalizing Problems
PSY 6219 Research Methods in Clinical Child Psychology

3. Affective Breadth Requirement (3 credits)

CLP 6060 Affective Bases of Behavior

4. Foundation Practicum (6 credits)

CLP 6432 Foundation Practicum I (Assessment)
CLP 6947 Foundation Practicum II (Treatment)

5. PSY 5918 Supervised Research (6 credits)
6. Non-thesis Master's Project consisting of an empirical paper based on the student's independent research, approved by the student's mentor and one additional reader, and submitted for publication

Master of Science in Psychology: Major in Counseling Psychology

The Counseling Psychology Masters major area is designed to prepare students for the independent and licensed professional practice of counseling and psychotherapy. The major offers students a solid foundation in counseling psychology that focuses on evidence-based practices in mental health counseling. Opportunities for specializing in a range of clinical problems and diverse populations are offered through faculty guided and clinical training in the FIU Center for Children & Families and supervised clinical experience in community-based clinical settings.

Completion of the major requirements leads to a Master of Science in Psychology and eligibility for a license to practice as a Mental Health Counselor (LMHC) in Florida. The core curriculum is intended to engage students in the advanced study of psychology with a focus on developing applied counseling for working in multicultural environments with populations that range across the life span from childhood to later adulthood.

Admission Requirements*

To be admitted into the Master's degree program in Counseling Psychology, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores.
3. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.

4. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
5. Receive approval from the Departmental Graduate Education Committee.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Master of Science in Counseling Psychology requires a minimum of 60 semester credits of graduate work beyond the baccalaureate. A maximum of 6 credits of post-baccalaureate course work may be transferred from another institution with the approval of the Advisory Committee.

Required Courses

The Counseling Psychology curriculum consists of 60 credit hours of graduate study, as required for licensure as a mental health counselor by the Florida Board of Clinical Social Work, Marriage & Family Therapy, and Mental Health Counseling that includes coursework, clinical training, and a passing score on the Counselor Preparation Comprehensive Examination (CPCE).

1. Common core (statistics/methodology/assessment) courses (9 credits)
2. Counseling Psychology content courses (36 credits drawn from the following list of 3 credit courses and approved by the program director):

CLP 5166	Advanced Abnormal Psychology (Advanced Psychopathology)
CLP 5931	Ethical Code in Psychological Practices
CLP 6436	Introduction to Psychological Assessment
CLP 6498	Diagnosis and Treatment of Sexual Disorders
CYP 5534	Groups as Agents of Change
CYP 6526	Psychological Methods of Program Evaluation and Research
CYP 6536	Principles and Methods of Psychological Consultation
CYP 6766	The Psychology of Cross Cultural Sensitization
CYP 6936	Current Issues in Community Psychology
DEP 5069	Applied Life Span Developmental Psychology
PCO 5311	Theory, Research, and Treatment of Addictive Behavior
PCO 6206	Principles and Practices of Counseling and Psychotherapy
PSY 5939	Special Topics
CLP 6449	Career Development in Adolescence & Adulthood
PCO 5251	Couple & Family Systems

3. Supervised clinical practicum/internship courses (15 credits)
4. Passing score on the Counselor Preparation Comprehensive Examination.

Master of Science in Psychology: Major in Developmental Science

Developmental science is concerned with the description and explanation of change over time in humans and other organisms. The Developmental Science area integrates a life-span orientation toward developmental science in an international and interdisciplinary multicultural urban context. Students majoring in the area complete core course requirements designed to facilitate a thorough grounding in research, theory, and methods across the lifespan, develop an area of specialization within or across the lifespan, and receive training in both basic and applied research in developmental science. Students have the opportunity to specialize in any phase of the lifespan or on any issues or topics that span phases of the lifespan and to focus on basic or applied research.

Admission Requirements*

Students will apply and be admitted directly to the doctoral program in Developmental Science based on the following criteria (applications will not be accepted and students will not be admitted for a terminal MS degree):

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores.
3. Have completed an undergraduate or graduate research methods course as a prerequisite.
4. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
5. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
6. Receive approval from the Departmental Graduate Education Committee.
7. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Master of Science in Developmental Science requires a minimum of 36 semester credits of graduate work beyond the baccalaureate, including a master's project based upon the student's original research. A maximum of 6 credits of post-baccalaureate course work may be transferred from another institution with the approval of the student's advisor.

Required Courses

Developmental Science MS students would be required to complete the 9 credits of departmental common core course requirements, along with more specialized content and breadth courses and a course involving supervised research, as listed below:

1. Common core courses (9 credits comprised of following Statistics/Methodology courses or other courses approved by the program director)

PSY 5939	Special Topics in Psychology: Quantitative Methods I
PSY 5939	Special Topics in Psychology: Quantitative Methods II

PSY 5246C Multivariate Analysis in Applied Psychological Research

2. Developmental Science Theory and Methods Requirement (9 credits comprised of the following 3 credit courses):

DEP 5608 Theoretical Perspectives in Developmental Psychology
DEP 5796 Developmental Methods
PSY 5605 History & Systems

3. Developmental Science Breadth Requirement (3 credits drawn from the following list of 3 credit courses, or other courses approved by the program director):

DEP 5099 Proseminar in Infancy, Childhood and Adolescence
DEP 5405 Proseminar in the Psychology of Adulthood and Aging
DEP 5936 Integrating Theory and Research in Developmental Science.

4. Biological Breadth Requirement (3 credits drawn from the following list of 3 credit courses, or other courses approved by the program director):

DEP 5058 Bio-Behavioral Development
EXP 5667 Cognitive Neuroscience

5. Cognitive Breadth Requirement (3 credits drawn from the following list of 3 credit courses, or other courses approved by the program director):

DEP 5065 Cognitive Development
DEP 6645 Cognition and Language

6. Social Breadth Requirement (3 credits drawn from the following list of 3 credit courses, or other courses approved by the program director)

DEP 5275 Seminar in Psychosocial Development
DEP 7096 Seminar in Psychology of Life-Span Social Development
SOP 5058 Proseminar in Social Psychology

7. Master's Project (6 credits of supervised research)

Master of Science in Psychology: Major in Industrial-Organizational Psychology

The Industrial Organizational (I/O) Psychology major focuses on issues such as the psychology of Human Resource Management, Group Behavior, Cultural Diversity in Organizations, Personality, Team Effectiveness, Personnel Selection, Leadership, Organizational Stress, and Training and Development. The major emphasizes a commitment both to research and application as a part of individual specialty area development. Students master a series of core courses designed to provide a thorough grounding in theory, methodology, and content in applied and basic research in psychology. These courses are taught by faculty who are involved in research and practice in the relevant areas.

In addition, seminars reflecting the specialized foci of the Industrial-Organizational area faculty are offered. There are also opportunities for practice and occasional internships for students to gain firsthand experience in the application of psychological knowledge to real challenges of organizations. Students are also encouraged to participate in professional conferences.

Admission Requirements*

To be admitted into the Master's degree program in I/O Psychology, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores.
3. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
4. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
5. Receive approval from the Departmental Graduate Education Committee.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Master of Science in Industrial and Organizational Psychology requires a minimum of 36 semester credits of graduate work beyond the baccalaureate. A maximum of 6 credits of post-baccalaureate course work may be transferred from another institution with the approval of the Advisory Committee.

Required Courses

The Master's in I/O Psychology requires 36 credit hours beyond the Bachelor's degree. This includes 6 credits of departmental common core requirements for the M.S. degree. Students have the option of following either a thesis or a non-thesis option. Students planning to apply to a doctoral program must elect the thesis option.

1. Common core (statistics/methodology) courses plus an additional statistics/methods course (9 credits)
2. I/O content courses (12 credits drawn from the following 3 credit courses and approved by the program director):

INP 5095 Proseminar in Industrial Psychology
INP 5136 Psychology of Legal Consultation
INP 6090 Applied Psychology and Organizational Consulting
INP 6115 Psychology of Culture and Organizations
INP 6216 Personnel Selection
INP 6235 Applied Psychology of Training and Development
INP 6611 Organizational Stress
INP 6940 Strategies and Methods of Applied Psychological Research
PSY 5939 Special Topics
SOP 5058 Proseminar in Social Psychology
SOP 5616 Social Psychology of Organizations

3. Supervised research/internship (3 credits)
4. Electives (6 credits)
5. PSY 6971 Masters thesis (thesis option) or additional content courses (non-thesis option) (6 credits)

Master of Science in Psychology: Major in Legal Psychology

Legal psychology is a growing and popular field that sits at the nexus of psychology and law. This program offers students broad training in psychology and in-depth training in legal psychology as well as more traditional concentrations (e.g., social psychology, cognitive psychology). Research, professional, and pedagogical

skills are strongly emphasized. Students may also obtain significant field experience in the legal system by participating in applied research, expert witness cases, providing assistance to trial consultants, and through other formal training experiences, such as collaborations with FIU's law school.

Admission Requirements*

Students will apply to be admitted directly to the doctoral program in Legal Psychology based on the following criteria (applications will not be accepted and students will not be admitted for a terminal degree).

1. Hold a Bachelor's degree in a relevant discipline from an accredited college of university.
2. Have strong GPA during their undergraduate program and strong scores on the Graduate Record Exam.
3. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
4. Receive approval from the Departmental Graduate Education Committee.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Master of Science Major in Legal Psychology requires a minimum of 36 semester credits of graduate work beyond the baccalaureate, including a thesis research project based upon the student's original research.
Students who have already completed a thesis in a relevant area of research while enrolled in another program, with program director approval can have the thesis project requirement waived. 9 credits of common core requirements are included in these requirements in order to meet the Board of Governors' Policy on degree structures.

Required Courses

In order to obtain their M.S., Legal Psychology doctoral students will be required to complete 36 credit-hours of coursework, as listed below:

1. Common core requirements (9 credits of statistics/methodology courses)
2. Basic Psychology and Applied Legal Psychology courses (18 credits from the following), or as approved by the program director

EXP 5099 Pro-Seminar in Experimental Psychology
EXP 5508 Applied Cognitive Psychology
PSY 5939 Special Topics in Psychology: Eyewitness Psychology
PSY 5939 Special Topics in Psychology: Developmental Psychology and the Law
SOP 6098 Proseminar in Legal Psychology
PSY 5939 Special Topics in Psychology: Interrogation and Deception
PSY 5939 Special Topics in Psychology: Child Witnesses
SOP 6098 Proseminar in Legal Psychology
PSY 5939 Special Topics in Psychology: Investigative Interviewing
PSY 5939 Special Topics in Psychology: Actual Innocence

3. Basic Psychology courses (9 credits from the following)

SOP 5058 Proseminar in Social Psychology
SOP 6098 Proseminar in Legal Psychology
SOP 6441 Seminar in Social Cognition

4. PSY 5918 Supervised Research (9 credits), a Master's Project consisting of an empirical paper based on the student's independent research, approved by the student's mentor and at least two additional readers.

Master of Science in Psychology: Organizational Sciences

Organizational Sciences focus on the cognitive, social and behavioral bases of employee motivation and behavior, and using that knowledge to design effective systems to enhance productivity. By providing a rigorous foundation in theory, research methods, and the practice of I/O psychology, this program prepares students for advanced study in psychology as well as training practitioners and researchers who can function in a wide variety of applied settings. Students are trained to utilize and apply principals of I/O Psychology to issues of critical relevance to organizations including: 1) recruitment, assessment, and personnel selection; 2) training needs assessments and design; 3) performance measurement and talent management; 4) workplace health promotion 5) employee satisfaction, morale, and work-life balance; and 6) team and group dynamics.

Admission Requirements*

Admissions will be based on the following criteria:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores
3. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Program Director
4. Send a brief essay stating reasons for interest in the program and career goals to the program director
5. International graduate student applicants whose native language is not English are required to submit a score for the Teof English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Master of Science in Organizational Sciences requires 36 semester credits of coursework at the graduate level and includes a terminal project focused on a workplace issue.

Required Courses

Students will complete 6 credits of coursework based on departmental core course requirements:

PSY 5939 Quantitative Methods in Psychology I
SOP 5058 Proseminar in Social Psychology

Students will also complete the following 30 credits of content courses:

INP 5095	Pro Seminar in Industrial Psychology
SOP 5616	Social Psychology of Organizations
INP 6216	Personnel Selection
INP 6235	Applied Psychology of Training and Development
INP 6611	Organizational Stress
INP 6940	Strategies and Methods of Applied Psychological Research
INP 6115	Psychology of Culture and Organizations
INP 6090	Applied Psychology and Organizational Consulting
PSY 5908	Directed Individual Study

Doctor of Philosophy in Cognitive Neuroscience

This program will train students to become experts in the study of the neuroscience of cognition and behavior. The program has a central focus in training of scholars and professors of Cognitive Neuroscience, which is a rapidly growing research area in Psychology. Thus, the primary goal of the program is to equip students with the skills necessary to function as academic and/or research scientists. As such, the program provides a rigorous, broad-based graduate education with an emphasis on topic-specific skills in neuroscience research methodology and data analysis; cognitive, developmental, and behavioral neuroscience; learning and memory; and neuropsychological disorders, combined with broader STEM-related skills.

Students benefit from the diversity of faculty's areas of interest and expertise that converge to provide a well-rounded training program in cognitive neuroscience. Hands-on research experience is an essential part of the training, and students become involved in research at an early point in their graduate training by participating in faculty research projects and by carrying out individual research under the guidance of one or several faculty members. Students will receive guidance in every aspect of conducting research, including developing ideas, designing and conducting studies, and dissemination, presenting papers at national conferences and publishing papers in scientific journals. In addition, we emphasize the students' development in grant writing skills, a necessary component of a successful research career.

Admission Requirements*

To be admitted into the Cognitive Neuroscience doctoral program, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores.
3. Have completed an undergraduate or graduate research methods course as a prerequisite.
4. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
5. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
6. Receive approval from the Departmental Graduate Education Committee.
7. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.

*These are minimum requirements. Admission is competitive.

Degree Requirements

The Ph.D. in Cognitive Neuroscience requires a minimum of 75 semester credits of graduate work beyond the baccalaureate, including a master's project and a dissertation based on the student's original research. A maximum of 36 credits may be transferred from a completed master's degree program with the approval of the program director. Cognitive Neuroscience doctoral students are required to complete the following minimum requirements. The remaining credits to complete the post-baccalaureate 75-credit requirement can be drawn from supervised research, directed individual study, dissertation research, electives, or the PSY 5938 Current Topics in Neuroscience Series.

1. **Common core courses in Statistics/Methodology** (Minimum 9 credits)
   Students must take all three of the following 3-credit courses or a course approved by the program director:
   - PSY 5939 Special Topics in Psychology (Quantitative Methods I)
   - PSY 5939 Special Topics in Psychology (Quantitative Methods II)
   - PSY 5246C Multivariate Analysis in Applied Psychological Research
2. **Cognitive Neuroscience Content Courses** (Minimum 6 credits)
   Students must take 2 courses drawn from the following 3-credit courses or a course approved by the program director:
   - DEP 5058 Biological Basis of Behavior Development
   - EXP 5667 Cognitive Neuroscience
   - EXP 5508 Applied Cognitive Psychology
   - EXP 5527 Memory and Consciousness
   - PSB 6247 Biological Bases of Behavior
   - PSB 6215 Human Neuroanatomy
   - CBH 5256 Animal Cognition
   - CLP 6426 Neuropsychology
   - PSB 6350 Cognitive Neuroimaging Methods I
   - PSB 6351 Cognitive Neuroimaging Methods II
   - PSB 5115 Introduction to Psychophysiology: Basics of Electroencephalography and Event-Related Potentials
   - PSB 6035 Introduction to Computational Cognitive Neuroscience
     PSB 5247 Neurobiology of Learning and Memory
3. **Electives** (Minimum 3 credits approved by the program director)
   - Students may choose electives from the list of content courses provided above or identify

electives outside of the department based on their research interest.

4. **Current Topics** (Variable Credits)
   - Students must take PSY 5938 Current Topics in Neuroscience Series (0-1) every Fall and Spring while enrolled in the Doctoral Program.
5. **Master's Project** (6 Credits PSY 5918 Supervised Research)
6. **Supervised research** (Variable Credits)
   - PSY 5918 Supervised Research (VAR)
7. **Comprehensive exam**
8. **PSY 7980 Ph.D. Dissertation** (Minimum 15 credits)

Doctor of Philosophy in Psychology: Major in Clinical Science in Child and Adolescent Psychology

The clinical science in child and adolescent psychology major is consistent with the training model articulated by the Academy of Psychological Clinical Science. Clinical Science is defined as a "psychological science directed at the promotion of adaptive functioning; at the assessment, understanding, amelioration, and prevention of human problems in behavior, affect, cognition or health; and at the application of knowledge in ways consistent with scientific evidence." Emphasis on the term "science" underscores the commitment to evidence based approaches to the assessment and treatment of child and adolescent problems, as well as the integration of research and theory of other relevant sciences. Emphasis on the term "science" also underscores that training facilities careers in which scientific knowledge is skillfully produce, applied, or both. The focus of the clinical science major is on child, adolescent and family clinical psychology within a multicultural context.

Students admitted to the major are expected to maintain full-time status and to become involved in research from the onset of their entry into the program by participating in faculty research projects and by carrying out individual research under the guidance of one or several faculty members. Students also are guided and encouraged to publish their individual research projects, to seek their own external funding to help support their research, and to present their work at professional conferences. Students receive clinical and teaching opportunities as part of their graduate training, within the context of continued student advancement as clinical scientists in child and adolescent psychology.

Admission Requirements*

To be admitted into the Clinical Science doctoral program, a student must:

1. Hold a Bachelor's or Master's degree in psychology from an accredited college or university or submit Graduate Record Exam - Psychology Subject Test Score.
2. Have a 3.0 average or higher GPA during the last two years of the undergraduate program, or, for students with a terminal Master's degree in psychology, have a minimum 3.5 average or higher GPA.
3. Have a minimum Total GRE score=300
4. Arrange for their application to the University Graduate School to be accompanied by three letters of recommendation evaluating potential for graduate work.
5. Include with their application to the University Graduate School a brief personal statement outlining their experiences, reasons for interest in doctoral training in psychological clinical science, and career goals.
6. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.

Admission into the Clinical Science Doctoral Program in Child and Adolescent Psychology is competitive. Successful applications have significant research experience and strong letters of recommendation. Enrolled students evidenced interest in psychological clinical science by clear articulation (in personal statement and interviews) of research questions, a desire for a clinical science career, strong record of academic achievement, and professional accomplishment described in personal statement and recommendations from past mentors.

Degree Requirements

The Ph.D. in Psychology requires a minimum of 75 semester credits of graduate work beyond the baccalaureate, including a dissertation based on the student's original research. The Major in Clinical Science in Child and Adolescent Psychology requires an additional 15 credits of clinical practicum (90 credits total) and a year-long internship. We adhere to the UGS policy regarding credit transfer toward a doctoral degree. However, it is policy of the Clinical Science Program to require all students to participate in the core clinical science courses. Students may apply to transfer credits for courses that overlap substantively in learning objectives and content with core analytic courses or breadth requirements. Research and practicum credits may be considered for transfer as well.

Required Courses

Clinical Science students are required to complete the 9 credits of departmental core course requirements established across majors in the Department, along with more specialized content courses, clinical practicum, and courses involving directed independent effort, as listed below, for a total of 90 credits:

1. Common core courses (9 credits comprised of the following Statistics/Methodology courses or other courses approved by the major area director):

PSY 5939	Special Topics in Psychology: Quantitative Methods I
PSY 5939	Special Topics in Psychology: Quantitative Methods II
PSY 5246C	Multivariate Analysis in Applied Psychological Research

2. Clinical science content courses (24 credits comprised of the following 3 credit courses):

CLP 5007	Psychological Clinical Science I: Historical Perspectives and Current Controversies
PSY 6219	Research Methods in Clinical Child Psychology

PSY 5605 Proseminar: History and Systems of Psychology
CLP 6471 Assessment and Treatment I: Internalizing Problems
CLP 6472 Assessment and Treatment II: Externalizing Problems
CLP 6473 Assessment and Treatment III: Developmental, Learning and Pediatric Disorders
CLP 6530 Dissemination and Implementation of Research

3. Breadth Requirements [12 credits drawn from the following list of 3 credit courses, or other courses approved by the major area director, to fulfill training in Biological and Cognitive Aspects of Behavior (3 credits); Affective Aspects of Behavior (3 credits); and Social Aspects of Behavior (3 credits)]:

CLP 6426 Neuropsychology
EXP 5667 Cognitive Neuroscience
CLP 6060 Affective Bases of Behavior
SOP 5058 Proseminar in Social Psychology

4. Advanced Analytic Requirement (3 credits drawn from the following list of 3 credit courses or other courses approved by the major area director):

PSY 5939 Special Topics in Psychology: Structural Equation Modeling
PSY 5939 Special Topics in Psychology: Categorical Data Analysis
PHC 6056 Longitudinal Health Data Analysis
PHC 6062 Systematic Reviews and Meta-Analysis

5. Electives (3 credits drawn from courses within or outside of the department, approved by the major area director, to facilitate depth of independent research)
6. Supervised Clinical Training (minimum 500 hours, 15 credits) comprised of the following:

CLP 6432 Foundation Practicum I: Assessment
CLP 6947 Foundations Practicum II: Treatment
CLP 6943 Advanced Clinical Practicum (9 credits)

7. PSY 5918 Supervised Research (12 credits)
8. Master's Project submitted for publication
9. Comprehensive Examination comprises a dissertation grant application and candidacy manuscript submitted for publication
10. PSY 7980 Ph.D. Dissertation (15 credits)
11. Internship (CLP 6948 Clinical Internship)

Master of Science in Psychology: Major in Cognitive Neuroscience

Admission Requirements

Students will apply and be admitted directly to the doctoral program in Cognitive Neuroscience based on the following criteria (applications will not be accepted and students will not be admitted for a terminal M.S. degree):

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores.
3. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
4. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
5. Receive approval from the Departmental Graduate Education Committee.
6. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.

*These are minimum requirements. Admission is competitive.

Degree Requirements

The M.S. in Cognitive Neuroscience requires a minimum of 36 semester credits of graduate work beyond the baccalaureate, including a master's project based upon the student's original research. A maximum of 6 credits of post-baccalaureate course work may be transferred from another institution with the approval of the student's advisor.

Required Courses

Cognitive Neuroscience Master's students are required to complete 6 credits of departmental core course requirements established across majors in the Department, along with specialized content courses and courses involving directed independent effort, as listed below:

(a) Common core courses (6 credits)
Statistics/Methodology courses (6 credits minimum)
(b) Cognitive Neuroscience Content Courses (15 credits drawn from the following 3 credit courses and approved by the major area director):

DEP 5058 Bio-Behavioral Development
EXP 5667 Cognitive Neuroscience
EXP 5508 Applied Cognitive Psychology
EXP 5527 Memory and Consciousness
ZOO 5785 Advanced Neurobiology
or
PSB 6247 Biological Bases of Behavior
PSB 6215 Human Neuroanatomy
PSB 5256 Animal Cognition
CLP 6426 Neuropsychology
PSB 6350/PHZ 6706 Cognitive Neuroimaging Methods
PSB6351/PHZ 6707 Cognitive Neuroimaging Methods II

(c) Supervised research/independent study|/field experience/internship courses (6 credits)
(d) Electives (9 credits approved by the major area director)
(e) Master's Project (6 credits supervised research)

Doctor of Philosophy in Psychology: Major in Applied Social and Cultural Psychology

Doctoral Admission Requirements

To be admitted into the Applied Social and Cultural Psychology doctoral program, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program
3. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
4. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
5. Submit a current resume or CV
6. Receive approval from the Departmental Graduate Education Committee.
7. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.
8. Official GRE scores**

**These are minimum requirements. Admission is competitive.*
***In response to research showing little correlation between GRE scores and success in graduate school, and concern that the test puts marginalized groups at a disadvantage, the ASCP faculty do not place weight on GRE scores in admissions.*

Degree Requirements

The Ph.D. in Psychology requires a minimum of 75 semester credits of graduate work beyond the baccalaureate, including a dissertation based on the student's original research. A maximum of 9 credits may be transferred into the Applied Social and Cultural Psychology major from a completed master's degree program with the approval of the major director. A student must enroll for dissertation credit after completing all coursework, passing the candidacy examination, and being advanced for candidacy. Dissertation credits cannot be taken before advancement to candidacy. After a doctoral student is admitted to candidacy, continuous registration for at least three dissertation credits is required until the dissertation requirement is fulfilled.

Required Courses

Applied Social and Cultural Psychology doctoral students are required to complete the 15 credits of departmental core course requirements established across majors in the Department, along with more specialized content courses and courses involving directed independent effort, as listed below, for a total of 75 credits:

Common core courses (12 credits):

PSY 5939	Special Topics in Psychology: Quantitative Methods I
PSY 5939	Special Topics in Psychology: Quantitative Methods II
PSY 5246C	Multivariate Analysis in Applied Psychological Research
SOP 5058	Proseminar in Social Psychology

Cognitive Neuroscience Content Courses (18 credits):

PSY 5605	Proseminar in History and Systems of Psychology
SOP 5316	Theories and Methods of Cross-Cultural Research
PSY 6919	Current Research Topics in Psychology
CLP 5007	Psychological Clinical Science I: Historical Perspectives and Current Controversies
CLP 6530	Dissemination and Implementation of Research
CYP 6936	Current Issues in Community Psychology

Breadth Requirements (9 credits drawn from the following list of 3 credit courses, or other courses approved by the major director, to fulfill training in Identity (3 credits); Social Justice (3 credits); and Methods (3 credits):

Identity (choose 1)

DEP 5325	Proseminar in Identity Development
	or
WST 5936	Women and Leadership

Social Justice (choose 1)

SOP 5726	Proseminar on the Psychology of Stereotyping, Prejudice and Discrimination
	or
CYP 6766	The Psychology of Crosscultural Sensitization in a Multicultural Context

Methods (choose 1)

PSY 5930	Qualitative Research Methods in Psychology
	or
CYP 6526	Psychological Methods of Program Evaluation

1. Electives (6 credits, drawn from courses within or outside of the department, approved by the major area director, to facilitate depth of independent research)
2. Supervised research courses (15 credits)
3. Master's Project
4. Comprehensive exam
5. PSY 7980 Ph.D. Dissertation (15 credits)
6. All students must also complete specific major requirements one semester prior to graduation. This will include:
    a. Diversity Statement
    b. One of the following written documents:
        i. Manuscript for publication that demonstrates engagement in a community-based and/or participatory action research project
        ii. Reflective essay demonstrating a leadership role in a community-based and/or participatory action research project
    c. One of the following public engagement activities:
        i. Public workshop
        ii. White paper
        iii. Policy Brief
        iv. Op-Ed

Additional public engagement activities for the ASCP Major Portfolio will be approved on a case-by-case basis; the approval memo must be signed by a minimum of two Core ASCP Faculty members for activities not listed above.

Doctor of Philosophy in Psychology: Major in Cognitive Neuroscience

This program will train students to become experts in the study of the neuroscience of cognition and behavior. Students will explore the neurobiology of cognition with developmental, cognitive, and clinical neuroscience researchers in the areas of sensorimotor behavior and perception, language, memory, executive function, and substance abuse. The faculty in the program employ "under-the-skin" electrophysiological and functional imaging methodologies on humans, with a special emphasis on understanding typical and atypical development. The faculty also conduct research on birds and non-human primates. Students complete coursework in basic neuroscience, neuroanatomy, neuropsychology, and cognitive neuroscience, as well as a complement of courses in research methods, history, and systems, and statistics to complete their training as psychologists.

The program has a central focus in training of scholars and professors of cognitive neuroscience, which is a rapidly growing research area in Psychology. Thus, the primary goal of the program is to equip students with the skills necessary to function as academic and/or research psychologists. The program has a strong emphasis on learning basic neuroanatomy and physiology, cognitive neuroscience research methodologies and analytic skills, and neural bases of psychology and psychopathology. Students benefit from the diversity of faculty's areas of interest and expertise that converge to provide a well-rounded training program in cognitive neuroscience.

Hands-on research experience is an essential part of the training, and students become involved in research at an early point in their graduate training by participating in faculty research projects and by carrying out individual research under the guidance of one or several faculty members. Students will receive guidance in every aspect of conducting research, including developing ideas, designing and conducting studies, and dissemination, presenting papers at national conferences and publishing papers in scientific journals. In addition, we emphasize the students development in grant writing skills, a necessary component of a successful research career.

Admission Requirements*

To be admitted into the Cognitive Neuroscience doctoral program, a student must:

9. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
10. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores.
11. Have completed an undergraduate or graduate research methods course as a prerequisite.
12. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
13. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
14. Receive approval from the Departmental Graduate Education Committee.
15. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Ph.D. in Psychology requires a minimum of 75 semester credits of graduate work beyond the baccalaureate, including a master's project and a dissertation based on the student's original research. A maximum of 36 credits may be transferred from a completed master's degree program with the approval of the program director.

Required Courses

Cognitive Neuroscience doctoral students are required to complete 9 credits of departmental core course requirements established across majors in the Department, along with more specialized content courses and courses involving directed independent effort, as listed below:

7. Common core courses (9 credits)

Statistics/Methodology courses (9 credits minimum)

8. Cognitive Neuroscience Content Courses (15 credits drawn from the following 3 credit courses and approved by the major area director):

DEP 5058	Biological Basis of Behavior Development
EXP 5667	Cognitive Neuroscience
EXP 5508	Applied Cognitive Psychology
EXP 5527	Memory and Consciousness
ZOO 5785	Advanced Neurobiology
	or
PSB 6247	Biological Bases of Behavior
PSB 6215	Human Neuroanatomy
CBH 5256	Animal Cognition
CLP 6426	Neuropsychology
PHZ 6706	Physics of Cognitive Neuroimaging Methods I
	or
PSB 6350	Cognitive Neuroimaging Methods I
PHZ 6707	Physics of Cognitive Neuroimaging Methods II
	or
PSB 6351	Cognitive Neuroimaging Methods II
PSB 5115	Introduction to Psychophysiology: Basics of Electroencephalography and Event-Related Potentials
PSB 6035	Introduction to Computational Cognitive Neuroscience
PSB 5247	Neurobiology of Learning and Memory

9. Supervised research/independent study/field experience/internship courses (18 credits)
10. Electives (12 credits approved by the major area director) Students may take PSY 5938 Current Topics in Neuroscience Series to meet elective credits, up to 6 credits.
11. Master's Project (6 credits supervised research)
12. Comprehensive exam
13. PSY 7980 Ph.D. Dissertation (15 credits)

Doctor of Philosophy in Psychology: Major in Developmental Science

Developmental science is concerned with the description and explanation of change over time in humans and other organisms. The Developmental Science area integrates a life-span orientation toward developmental science in an international and interdisciplinary multicultural urban context. Students are expected to master a series of core course requirements designed to facilitate a thorough grounding in theory, methodology, and content in both basic and applied research in developmental science. A number of seminars reflecting the specialized foci of the program are also offered. Students have the opportunity to specialize in any phase of the lifespan or on any issues or topics that span phases of the lifespan and to focus on basic or applied research.

Students admitted to the program are expected to maintain full-time status throughout their four years in the doctoral program and to become involved in research at an early point in their graduate training by participating in faculty research projects and by carrying out individual research under the guidance of one or several faculty members. Students are also guided and encouraged to publish their individual research projects and to present their work at professional conferences. They are provided opportunities for teaching as part of their graduate training.

Admission Requirements*

To be admitted into the Developmental Science doctoral program, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores.
3. Have completed an undergraduate or graduate research methods course as a prerequisite.
4. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
5. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
6. Receive approval from the Departmental Graduate Education Committee.
7. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Ph.D. in Psychology requires a minimum of 75 semester credits of graduate work beyond the baccalaureate, including a dissertation based on the student's original research. A maximum of 36 credits may be transferred from a completed masters degree program with the approval of the program director.

Required Courses

Developmental Science doctoral students are required to complete the 9 credits of departmental core course requirements established across majors in the Department, along with more specialized content courses and courses involving directed independent effort, as listed below:

1. Common core courses (9 credits comprised of the following Statistics/Methodology courses or other courses approved by the program director):

PSY 5939 Special Topics in Psychology: Quantitative Methods I
PSY 5939 Special Topics in Psychology Quantitative Methods II
PSY 5246C Multivariate Analysis in Applied Psychological Research

2. Developmental science Theory and Methods Requirement (9 credits comprised of the following 3 credit courses):

DEP 5608 Theoretical Perspectives in Developmental Psychology
DEP 5796 Developmental Methods
PSY 5605 History & Systems

3. Development Science Breadth Requirement (3 credits drawn from the following list of 3 credit courses, or other courses approved by the program director):

DEP 5099 Proseminar in Infancy, Childhood, and Adolescence
DEP 5405 Proseminar in the Psychology of Adulthood and Aging
DEP 5936 Integrating theory and Research in Developmental Science

4. Biological Breadth Requirement (3 credits drawn from the following list of 3 credit courses, or other courses approved by the program director):

DEP 5058 Bio-Behavioral Development
EXP 5667 Cognitive Neuroscience

5. Cognitive Breadth Requirement (3 credits drawn from the following list of 3 credit courses, or other courses approved by the program director):

DEP 5065 Cognitive Development
DEP 6645 Cognition and Language

6. Social Breadth Requirement (3 credits drawn from the following list of 3 credit courses, or other courses approved by the program director):

DEP 5725 Seminar in Psychosocial Development
DEP 7096 Seminar in Psychology of Life-Span Social Development
SOP 5058 Proseminar in Social Psychology

7. Supervised research/independent study/field experience/internship courses 18 credits
8. Electives (6 credits approved by the program director)
9. Master's Project (6 credits of supervised research)
10. Comprehensive exam
11. PSY 7980 P.h.D. Dissertation (15 credits)

Doctor of Philosophy in Psychology: Major in Industrial-Organizational Psychology

The Industrial Organizational (I/O) Psychology major focuses on issues such as the psychology of Human Resource Management, Group Behavior, Cultural Diversity in Organizations, Personality, Team

Effectiveness, Personnel Selection, Leadership, Organizational Stress, and Training and Development. Program requirements include core courses that provide a strong knowledge base and a selection of optional seminars that allows specialization and applied experience. Idea exchange and research collaboration among students are goals of many of these courses. These courses are taught by faculty who are involved in research and practice in the relevant areas.

In addition to master's and doctoral dissertation projects, activity in a variety of research projects is highly encouraged. Involvement with I/O program events, applied internships, conference attendance and presentations is also encouraged.

Admission Requirements*

To be admitted into the I/O Psychology doctoral program, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program submit Graduate Record Exam (GRE) scores.
3. Have completed an undergraduate or graduate research methods course as a prerequisite.
4. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
5. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.
6. Receive approval from the Departmental Graduate Education Committee.
7. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Ph.D. in Psychology requires a minimum of 75 semester credits of graduate work beyond the baccalaureate, including a dissertation based on the student's original research. A maximum of 36 credits may be transferred from a completed masters degree program with the approval of the Advisory Committee.

Required Courses

Industrial/Organizational Psychology doctoral students are required to complete the 9 credits of departmental core course requirements established across majors in the Department, along with more specialized content courses and courses involving directed independent effort, as listed below:

1. Common core courses (9 credits)

Statistics/Methodology courses (9 credits minimum)

2. Substantive I-O content courses (21 credits drawn from the following 3 credit courses and approved by the program director):

INP 5095	Proseminar in Industrial Psychology
INP 5136	Psychology of Legal Consultation
INP 6090	Applied Psychology and Organizational Consulting
INP 6115	Psychology of Culture and Organizations
INP 6216	Personnel Selection
INP 6235	Applied Psychology of Training and Development
INP 6611	Organizational Stress
INP 6940	Strategies and Methods of Applied Psychological Research
PSY 5939	Special Topics
SOP 5058	Proseminar in Social Psychology
SOP 5616	Social Psychology of Organizations

3. Electives (9 credits with approval from I/O program director)
4. Supervised research/internship (15 credits)
5. Master's Project (6 credits approved by the program director)
6. Comprehensive exam
7. PSY 7980 Ph.D. Dissertation (15 credits)

Doctor of Philosophy in Psychology: Major in Legal Psychology

The Legal Psychology major area is focused on issues related to the overlap between psychology and law, including areas such as: jury decision-making, investigative interviewing, eyewitness memory, and detecting deception. The program is research-oriented, with the goal of training students to conduct research in academic, government, or legal consulting settings. Research in this area revolves mostly around three traditional areas of psychology: cognitive, developmental, and social psychology. As such, training is provided in these basic areas of psychology, along with training in methodology and statistics, and in related areas of law, and most notably, the overlap between law and psychology.

Program requirements include seminar courses in basic psychological processes (e.g. cognition, social psychology), statistics and methodology, and legal psychology. While taking courses, students conduct independent research and collaborate with other faculty and students. Students are encouraged to work on projects with a variety of colleagues. In addition to taking formal courses, students also have the opportunity to participate in weekly, informal research meetings with other students and faculty.

Admission Requirements*

To be admitted into Legal Psychology doctoral program, a student must:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university.
2. Have a 3.0 average or higher during the last two years of the undergraduate program and submit Graduate Record Exam (GRE) scores.
3. Have completed an undergraduate or graduate research methods course as a prerequisite.
4. Arrange to have three letters of recommendation evaluating the applicant's potential for graduate work sent to the Psychology Graduate Program Director.
5. Send a brief essay stating reasons for interest in the program and career goals to the Psychology Graduate Secretary.

6. Receive approval from the Departmental Graduate Education Committee.
7. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 92 on the iBT TOEFL (equivalent to 580 in the TOEFL) is required.

**These are minimum requirements. Admission is competitive.*

Degree Requirements

The Ph.D. in Psychology requires a minimum of 75 semester credits of graduate work beyond the baccalaureate, including a dissertation based on the student's original research. A maximum of 36 credits may be transferred from a completed masters degree program with the approval of the Advisory Committee.

Required Courses

Legal Psychology doctoral students are required to complete the 9 credits of departmental core course requirements established across majors in the Department, along with more specialized content courses and courses involving directed independent effort, as listed below:

1. Common core courses (9 credits)

Statistics/Methodology courses (9 credits minimum)

2. 6 courses (total of 18 credits) on basic psychology, applied legal psychology approved by the program director):

CJE 5024	Violent Crime
CJL 6418	Law and Social Control
CLP 5185	Current Issues in Mental Health
CLP 6395	Forensic Psychology
CLP 6438	Clinical Psychological Assessment
DEP 5068	Applied Life Span Developmental Psychology
DEP 5099	Proseminar in Infancy, Childhood, and Adolescence
EXP 5099	Proseminar in Experimental Psychology
EXP 5527	Memory and Consciousness
EXP 5508	Applied Cognitive Psychology
INP 5095	Proseminar in Industrial Psychology
INP 5136	Psychology of Legal Consultation
INP 6115	Psychology of Culture and Organizations
INP 6940	Strategies and Methods of Applied Psychological Research
POS 6286	Judicial Research
POS 6612	Seminar US Supreme Court
PSY 5939	Special Topics
SOP 5058	Proseminar in Social Psychology
SOP 6098	Proseminar in Legal Psychology
SOP 6441	Seminar in Social Cognition
SOP 6752	Psychology of Juries
LAW 6310	Alternative Dispute Resolution
LAW 6112	Criminal Procedure
LAW 6114	Advanced Criminal Procedure
LAW 6330	Evidence
LAW 6710	Family Law
LAW 6381	Interviewing and Counseling
LAW 6363	Trail Practice
LAW 7549	Employment Discrimination
LAW 6714	Children and the Law
LAW 6253	Comparative Criminal Law
LAW 7308	Complex Litigation
LAW 6720	Health Law
LAW 6555	Law and Economics
LAW 6313	Negotiation and Mediation
LAW 6234	Race and the Law
LAW 6235	Women and the Law

3. Electives (6 credits approved by the student's graduate advisor)
4. Supervised research (18 credits)
5. Master's Project
6. Comprehensive Examination
7. PSY 7980 Ph.D. Dissertation (15 credits)

Graduation Requirements

A grade of "B" or higher must be obtained in all courses with a cumulative average of 3.0 or higher in the 75 credits; the program requirements must be completed, and a dissertation must be completed and accepted by the University.

Deadline for review of completed applications is December 1 for fall admission.

Juris Doctor/Master of Science in Psychology Joint Degree Pathway

Under the joint degree pathway, a student can obtain both degrees in less time than it would take to obtain each degree if pursued consecutively. Essential criteria relating to the joint degree pathway are as follows:

1. Candidates for the pathway must meet the entrance requirements for and be accepted by both Colleges. Both Colleges must be informed by the student at the time of application to the second program that the student intends to pursue the joint degree.
2. The joint degree pathway is not open to students who have already earned one degree.
3. For law students, enrollment in the M.S. program is required no later than the completion of 63 credit hours in the J.D. program. For M.S. students, enrollment in the J.D. program is required no later than the third semester after beginning the M.S. program. For purposes of this paragraph, a summer session is counted as half a semester.
4. A student must satisfy the curriculum requirements for each degree before either degree is awarded. The College of Arts, Sciences and Education will allow 9 credit hours toward the M.S. degree for successful completion of 9 credit hours of upper level law school electives from a list of courses approved by the Chair of the Department of Psychology. These 9 credit hours of law classes will be in lieu of 9 hours of courses required for the M.S. degree with the specialization in Legal Psychology as approved for each student by the Legal Psychology faculty committee, but not to include the required statistics classes of Proseminars. If the student is pursuing a non-thesis M.S. with the specialization in Legal Psychology, 6 of the 9 credit hours of law classes will be in lieu of the six credit hours normally allotted to the thesis. Reciprocally, law students may receive 9 hours of credit toward the satisfaction of the J.D. degree for courses taken in the M.S. curriculum upon

completion of the M.S. degree curriculum with a grade point average of 3.0 or higher.

5. A student enrolled in the joint degree pathway may begin the student's studies in either College, but full-time law students must take the first two semesters of law study consecutively and part-time students must take the first three semesters of law study consecutively. Students admitted to one College but electing to begin study in the other College under the joint degree pathway may enter the second College thereafter without once again qualifying for admission so long as they have notified the second College before the end of the first week of the first semester in the second College and are in good academic standing when studies commence in the second College.
6. A student enrolled in the joint degree pathway will not receive either degree until the student has satisfied all of the requirements for both degrees, or until the student has satisfied the requirements of one of the degrees as if the student had not been a joint degree candidate.
7. Students in the joint degree pathway will be eligible for the graduate teaching assistantships and research assistantships in the College of Arts, Sciences and Education on the same basis as other M.S. students, subject to the guidelines and restrictions set by the College of Arts, Sciences and Education.

Non-Thesis Track with a Specialization in Legal Psychology

The new non-thesis track culminating in the award of a Master of Science in Psychology, with a specialization in Legal Psychology, from the College of Arts, Sciences and Education complements the joint degree pathway that awards a Master of Science from the College of Arts, Sciences and Education and a Juris Doctor degree awarded by the College of Law. Essential criteria relating to this non-thesis option are as follows:

1. The non-thesis track is available only to graduate students who are admitted to the joint J.D./M.S. pathway. Admission requirements to that pathway are outlined above. Students entering the J.D./M.S. pathway will be placed on the non-thesis track.
2. Students on the non-thesis track may change to the thesis track with approval from the Director of the Legal Psychology Program and the Chair of the Psychology Department.
3. Except for the thesis requirement, the requirements for the M.S. degree, as specified by the Legal Psychology Program and the Psychology Department, apply to all students in the non-thesis track. As currently outlined, students must complete 9 hours of statistics classes, 12 hours of core Legal Psychology classes, and 9 hours of electives. Non-thesis track students must complete these requirements, plus 6 hours of additional electives. Unless otherwise specified, any changes made to the M.S. curriculum in the future will apply equally to thesis and non-thesis track students.
4. As outlined in the joint degree pathway proposal, 9 hours of credit toward the M.S. degree may be allowed for upper level law school electives from a list of courses approved by the Chair of the Department of Psychology. These law school classes will be in lieu of 9 hours of credit as approved for each student by the Legal Psychology Graduate Committee, but not to include the required statistics classes or Proseminars.
5. In lieu of a thesis, students must complete a comprehensive critical review paper that includes both legal and psychological analysis of a chosen topic. Students must complete this paper no later than the last semester of the student's coursework. Students must have taken all required courses by the end of the term during which they complete the critical review paper. At least two faculty members of either the Department of Psychology or the College of Law will review the paper and must agree on satisfactory completion.
6. Students on the non-thesis track are required to take at least 3 credit hours of Supervised Research (PSY 5918).

Courses

List of proposed courses in the College of Law that may be taken for credit toward the M.S. in Psychology (with specialization in Legal Psychology)

LAW 6310	Alternative Dispute Resolution	2-3
LAW 6112	Criminal Procedure	3
LAW 6114	Advanced Criminal Procedure	3
LAW 6330	Evidence	3-4
LAW 6710	Family Law	2-3
LAW 6381	Interviewing and Counseling	2
LAW 6363	Trial Practice	2-4
LAW 7549	Employment Discrimination	3
LAW 6714	Children and the Law	2-3
LAW 6253	Comparative Criminal Law	2-3
LAW 7308	Complex Litigation	2-3
LAW 6720	Health Law	2-3
LAW 6555	Law and Economics	2-3
LAW 6313	Negotiation and Mediation	2-3
LAW 6234	Race and the Law	2-3
LAW 6235	Women and the Law	2-3

Course Descriptions

Definition of Prefixes

CBH-Comparative Psychology and Animal Behavior; CLP-Clinical Psychology; CYP-Community Psychology; DEP-Developmental Psychology; EAB-Experimental Analysis of Behavior; EDP-Educational Psychology; EXP-Experimental Psychology; INP-Industrial and Applied Psychology; LIN-Linguistics; PCO-Psychology for Counseling; PSB-Psychobiology; PSY-Psychology; SOP-Social Psychology

CBH 5256 Animal Cognition (3). Survey of comparative cognition between humans and other animals. Major topics include perception, attention, learning, memory, reasoning, tool use, and language. Prerequisites: Graduate standing or permission of the instructor.

CLP 5007 Psychological Clinical Science I: Historical Perspectives and Current Controversies (3). This course overviews clinical child psychology, including (a) history and philosophy of psychological clinical science and (b) challenges and controversies related to bridging science and service. Prerequisite: Graduate standing.

CLP 5165 Psychopathology (3). This course will provide a comprehensive introduction to the literature on psychopathology with a focus on understanding its relationship to other areas of psychology. Prerequisite: Graduate standing.

CLP 5166 Advanced Abnormal Psychology (3). Advanced study of the causes, psychopathology manifestations, and social and personal consequences of behavior disturbance. Emphasis is placed on the critical examination of current research on the biological, psychological, and social aspects of these disorders. Clinical approaches to diagnosis, course, and prognosis in the contemporary mental health context (including 'practicum' assignments if feasible) are covered.

CLP 5169 Proseminar in Developmental Psychopathology (3). A comprehensive review of topics in developmental psychopathology including history, scope, methods, individual and contextual influences, developmental course, long-term outcomes, and resilience. Prerequisites: Graduate standing or permission of the instructor.

CLP 5185 Current Issues in Mental Health (3). A critical, intensive examination of selected, important issues in mental health. Emphasis is given to the empirical study of contemporary problems related to the making of mental patients; planning, programming, and administering mental health services; political, ethical, and legal constraints on the operation of mental health facilities; interdisciplinary cooperation among helping and human service professionals; and evaluation of preventive care and treatment services. Prerequisites: Abnormal Psychology or permission of the instructor.

CLP 5483 Psychological Clinical Science II: Ecologies of Development and Theories of Psychopathology (3). This course provides an overview of theories of clinical child psychology, including (a) ecologies of development as related to psychopathology and (b) theories of development psychopathology. Prerequisites: Graduate standing, CLP 5007.

CLP 5931 Ethical Code in Psychological Practice (3). Ethical principles, rules, procedures of Psychologists. Clinical application and incorporation of the principles into professional interactions. Ethical reasoning is emphasized.

CLP 6060 Affective Bases of Behavior (3). A comprehensive introduction to the literature on affective science with a focus on: behavioral, biological, cognitive, and social dimensions, as well as the relevance to clinical science. Prerequisite: Graduate Standing

CLP 6168 Psychopathology Across the Life-Span (3). Exploration of the causes of psychopathology from a life-span developmental orientation and implications for theories of personality. Prerequisites: CLP 5166 and permission of the instructor.

CLP 6375 Clinical Psychology (3). Introduction to the science-profession of clinical psychology, as it is applied to preventing, diagnosing and treating maladaptive or deviant human behavior and relationships. Prerequisites: Admission to the Graduate Program in Psychology or Education and permission of the instructor.

CLP 6395 Forensic Psychology (3). This course surveys the practical and ethical issues surrounding the interface between clinical psychology and the law. Prerequisites: CLP 4144, CLP 6168, or equivalent of either.

CLP 6426 Neuropsychology (3). Introduces students to basic foundations and some advanced concepts in Neuropsychology, with a focus on clinical applications. Topics covered will include functional neuroanatomy, brain disorders across the lifespan, and assessment of neuropsychological functions. Prerequisite: Permission of the instructor.

CLP 6432 Foundation Practicum I (3). This course provides a comprehensive introduction to the principles of psychological assessment and measurement in children and hands on practice in the administration of selected cognitive tests. Prerequisite: Graduate standing.

CLP 6436 Introduction to Psychological Assessment (3). This course provides instruction in the principles and methods underlying the administration, construction and evaluation of psychological tests and measures. Prerequisite: Graduate standing.

CLP 6437 Behavioral Assessment in Childhood (3). Standardized tests and inventories for the behavior assessment of infants, children, and adolescents will be surveyed. Prerequisites: Proseminar courses and second year graduate standing.

CLP 6438 Clinical Psychological Assessment (3). Supervision and didactic material will facilitate continued growth in psychological assessment for Ph.D. students. The focus is on selection, administration, and interpretation of psychological tests. Prerequisites: CLP 6432, CLP 6947, permission of the instructor.

CLP 6449 Career Development in Adolescence and Adulthood (3). An overview of career development and other life factors relevant to life stages from adolescence and beyond. Issues related to theory, research and application will be reviewed. Prerequisite: Graduate standing.

CLP 6471 Assessment and Treatment I: Internalizing Problems (3). Provides an in-depth examination of the evidenced-based assessments used in the psychological evaluation and treatment for children and adolescents with internalizing problems. Prerequisite: CLP 5007.

CLP 6472 Assessment and Treatment II: Externalizing Problems (3). Provides an in-depth examination of the evidenced-based assessments used in the psychological evaluation and treatment for children and adolescents with externalizing problems. Prerequisite: CLP 5007.

CLP 6473 Assessment and Treatment III: Developmental, Learning and Pediatric Disorders (3). Provides an overview of theory, research, and evidenced-based practices relevant for evidence based assessment and intervention for use with developmental, learning and pediatric disorders. Prerequisite: CLP 5007.

CLP 6498 Diagnosis and Treatment of Sexual Disorders (3). Clinical examination of sexual functioning, emphasizing disorders of gender identity, paraphilias and other dysfunctions and intimacy problems. Prerequisites: Graduate standing or permission of the instructor. Corequisites: SOP 3772 or equivalent.

CLP 6530 Dissemination and Implementation of Research (3). Addresses the increasing need to bridge

research and practice to inform a new generation of effective services that are accessible to the large numbers of children and families in need.

CLP 6625 Clinical Supervision in Mental Health Counseling (1-20). Supervised experience in clinical supervision techniques and methods. Prerequisite: Master's degree.

CLP 6943 Advanced Clinical Practicum (1-20). Allows students to practice clinical skills through participation in interactive classroom exercises while gaining clinical experience. Prerequisite: Clinical Practicum (CLP 6945).

CLP 6945 Clinical Practicum in Psychology (1-3). Supervised experience in clinical techniques and methods. Prerequisites: Graduate standing and permission of the instructor.

CLP 6947 Foundations Practicum II (Treatment) (3). This course provides a comprehensive introduction to the principles of psychological treatments for children and adolescents, with applied practice and supervision in psychotherapy techniques. Prerequisites: PSY 5939 (Foundation Practicum I: Assessment).

CLP 6948 Clinical Internship (1-3). Clinical Internship in Psychology for Ph.D. candidates who have completed the Clinical Practicum and at least 45 graduate credit hours. Prerequisites: Graduate standing and permission of the instructor, CLP 6945.

CLP 6949 Advanced Clinical Internship (1-20). Advanced clinical internship is the second semester of internship. Students receive supervision in advanced clinical techniques and personal and professional development. Prerequisites: Graduate standing and permission of instructor.

CYP 5534 Groups as Agents of Change (3). Theory and practice in utilizing groups as agents of change or development in communities and organizations. Didactic presentation and structured exercises focus on relevant issues. Students design and implement problem-focused interventions, using class as client system.

CYP 6526 Psychological Methods of Program Evaluation (3). Development of skills for the psychological assessment monitoring and evaluation of human service programs with emphasis on the application of basic principles of behavioral science research in the field, exclusive of public school settings.

CYP 6536 Principles and Methods of Psychological Consultation (3). An analysis of the basic psychological approaches underlying consultation, with special emphasis on the practical application of the processes of learning, cognition, and interpersonal relations to techniques of consulting with various 'target' agencies, individual clients, and other professionals in community settings. Prerequisites: Graduate standing at FIU or permission of the instructor.

CYP 6766 The Psychology of Crosscultural Sensitization in a Multicultural Context (3). A series of weekly seminars to increase student sensitivity to working with clients from different cultural backgrounds. The objectives of the course are: (1) facilitating student awareness of cultural differences and their impact on social and human services delivery systems, (2) identifying the student's own personal cultural biases and values when interacting with culturally different persons, and (3) teaching students to develop culturally appropriate intervention skills.

CYP 6936 Current Issues in Community Psychology (3). An intensive analysis of contemporary theoretical, practical, and professional aspects of the field of Community Psychology. Topics discussed may lead to the graduate project required of each student. Prerequisites: Admission to graduate study in psychology (other graduate students admitted by permission of the instructor).

DEP 5056 Issues in Life-Span Developmental Psychology: Infancy through Old Age (3). A in-depth survey of theories, issues, methods, and data in life-span developmental psychology through the entire age range. Prerequisites: DEP 3001 or DEP 4464, or their equivalents, are recommended.

DEP 5058 Biological Basis of Behavior Development (3). Introduction to theory and research underlying behavioral development. Covers such pre-and post-natal determinants as evolution, genetics, neuroendocrines, as well as social development, behavioral ecology, and sociobiology. Prerequisites: Graduate standing or permission of the instructor. Corequisite: Proseminar courses.

DEP 5065 Cognitive Development (3). An overview of cognitive development, with a focus on the theories, experimental evidence, and milestones in cognitive development. Topics include the development of attention, perception, memory, problem solving, categorization, concepts, language, reasoning, theory of mind, metacognition, and executive function. Prerequisites: Graduate standing or permission of the instructor.

DEP 5068 Applied Life Span Developmental Psychology (3). This course is designed to acquaint the student with various applications in life-span developmental psychology. An overview of general issues and areas of application is offered, and specific applications are considered. Prerequisites: Graduate standing or permission of the instructor.

DEP 5099 Proseminar in Infancy, Childhood, and Adolescence (3). Provides a comprehensive review of issues in perceptual, cognitive, social, emotional, and personality development from infancy through adolescence. Prerequisites: Graduate standing or permission of the instructor. Corequisite: Proseminars.

DEP 5118 Current Issues in Cognitive and Perceptual Development in Infancy (3). Provides an in-depth analysis of current issues, methods, research and theory of cognitive and perceptual development during the first year of life. Special emphasis on object and event perception, memory, and imitation. Prerequisites: Two courses in developmental psychology -any level recommended.

DEP 5185 Emotional Learning and its Reversal (3). Theoretical analyses and methodological issues in the study of emotional learning. Prerequisites: Graduate standing or permission of the instructor.

DEP 5325 Proseminar in Identity Development (3). This class uses foundational identity theories and concepts to understand cross cultural development and psychological

outcomes at an advanced level. Prerequisite: Graduate standing.

DEP 5344 Psychology of Moral Development (3). An introduction to the literature on moral development. Review and discussion of recent developments in this area. Prerequisites: Graduate standing or permission of the instructor.

DEP 5405 Proseminar in Psychology of Adulthood and Aging (3). A comprehensive review of topics in adulthood and aging including: biological changes, social processes, work, family, cognition, memory, personality, and psychopathology. Prerequisites: Graduate standing or permission of the instructor.

DEP 5608 Theoretical Perspectives in Developmental Psychology (3). The focus of this course is on the major paradigms, models, and theories that have been influential in developmental psychology, both historically and contemporaneously. Meta-theoretical issues, paradigmatic influences, and specific theories are considered. Prerequisites: Graduate standing or permission of the instructor.

DEP 5725 Seminar in Psychosocial Development (1). This course is designed to develop research skills and competencies in the area of psychosocial development. The emphasis of the course is on involvement in original research. Prerequisite: Permission of the instructor. Corequisites: Senior undergraduate or graduate standing.

DEP 5796 Methods of Developmental Research (3). Survey of issues and methods at all stages of life-span developmental research including theory, methods, design, and data reduction. Prerequisites: Graduate standing or permission of the instructor. Corequisite: Proseminars.

DEP 5936 Theory and Research Experience in Developmental Science (3). An advanced seminar that integrates research in the lab with readings and discussion of current issues, theory, and methods in developmental science. May be repeated. Prerequisites: Graduate standing and permission of instructor. Corequisites: Independent research in a developmental lab (PSY 5918 or PSY 6971).

DEP 6117 Psychology of Caregiving (3). An advanced seminar focusing on one or more topics in depth and requiring literature reviews and research design. Topics may include timing of parenthood, adoption, and fatherhood.

DEP 6145 Psychology of Culture and Childhood (3). Extensive cross-cultural readings will serve as the focus for seminar discussion of cultural influences on children's biological, motor, perceptual, cognitive, social, and personality development. Prerequisites: Graduate standing or permission of the instructor.

DEP 6186 Social Development and Learning (3). Theories and facts of socio-emotional development, learning, and the acquisition and maintenance of social relationships in early life are examined critically. Prerequisites: DEP 2000 or DEP 2001 or equivalent.

DEP 6465 Psychology of Culture and Aging (3). An intensive examination of cultural influences on social and psychological aging processes including minority aging and involving seminar discussion and independent projects. Prerequisite: Graduate standing.

DEP 6466 Cognitive Processes in Aging (3). An intensive analysis of the background and recent developments in the area of age changes and age differences in intellectual functioning and learning memory processes. Prerequisite: DEP 5405.

DEP 6477 Psychology of Social Processes in Aging (3). An intensive analysis of the background and recent developments in theoretical models of social development, personality processes, and social processes in the older adult. Prerequisite: DEP 5405.

DEP 6645 Cognition and Language (3). Course covers the acquisition of cognitive processes and language, and their interdependence. Theory and research focusing on innate vs. learned aspects are discussed. Prerequisites: Graduate standing or permission of the instructor.

DEP 6936 Current Literature in the Psychology of Infancy, Childhood, and Adolescence (3). This seminar will present and evaluate current research articles in the major journals in infant, child, and adolescence psychology. Prerequisite: Second year graduate standing.

DEP 6937 Current Literature in the Psychology of Adulthood and Aging (3). This seminar will present and evaluate current research articles in the major journals in the psychology of adulthood and aging. Prerequisite: Second year graduate standing.

DEP 6945 Life-span Developmental Psychology Practicum (3). This is an individually tailored program where students will work in an agency on a specific problem or project, culminating in a final written report. Prerequisite: Second year graduate standing.

DEP 7069 Seminar in Life-Span Cognitive Developmental (3). This graduate seminar will examine, through intensive reading and seminar discussion, the major theories, issues and empirical research on cognitive growth, change and decline from infancy through old age. Prerequisites: Two courses in Developmental Psychology (any level).

DEP 7096 Seminar in Psychology of Life-Span Social Development (3). This course includes a consideration of general issues and discussion of the application of life-span models to selected topics development. Prerequisites: Graduate standing or permission of the instructor.

EAB 5098 Proseminar in the Experimental Analysis of Behavior (3). An advanced survey of the principles of respondent and operant conditioning and the bases of action in both social and non-social settings. Prerequisites: EAB 3002 or equivalents.

EAB 5655 Advanced Methods of Behavior Change (3). An intensive study of selected methods of modifying human behavior, emphasizing the applications of the principles of respondent and operant conditioning, as well as those derived from modern social learning theories. Practice and role playing opportunities are provided in behavior therapy, relaxation therapy, behavior modification, biofeedback or similar behavioral approaches. Prerequisites: EAB 3794, CLP 4374, CYP 4144; enrollment in an authorized program; equivalent background; or permission of the instructor.

EAB 5700 introduction to the Concepts and Principles of Applied Behavior Analysis (3). In depth study of learning principles and methods of behavior change and complex learning processes, including Skinner's analysis of verbal behavior. Prerequisite: Graduate Standing.

EAB 5701 Behavior Assessments (3). Behavior analytic assessment including descriptive assessment and functional analysis, identification of behavior function, assessment of skill deficits, and identifying treatment goals. Prerequisite: Graduate standing.

EAB 5797 Single-Case Research Methods (3). Intensive study of designs, strategies, and methods of single-case behavioral research. Prerequisites: Graduate standing or permission of the instructor.

EAB 5917 Supervised Research in Behavior Analysis (0-3). Students complete an applied research capstone project in their practicum placement. The project is proposed, conducted and defended across 3 semesters. Course can be repeated. Prerequisites: Graduate standing and instructor permission.

EAB 5937 Special Topics in Behavior Analysis (0-3). The purpose of this course is to expand the student's breadth and depth of knowledge in a variety of behavior analysis topics. Course can be repeated. Prerequisites: Graduate standing and permission of the instructor.

EAB 6005 Advanced Concepts and Principles of Applied Behavior Analysis (3). A critical examination of the theory, concepts, and principles of applied behavior analysis. The course will cover historical figures and events that led to the development of the field. Prerequisite: Graduate standing.

EAB 6707 Learning and Development (3). A survey of the application of the principles, methods, and applications of experimental behavior analysis to various life-span segments and developmental themes. Prerequisites: Proseminar in Behavioral Analysis or an undergraduate EAB course (EAB 3002 or EAB 3794).

EAB 6717 Science and Practice of Verbal Behavior (3). Behavior is analyzed by function. Structural and developmental issues as well as implications for language training and ethical application integrated throughout. Prerequisite: Graduate standing.

EAB 6770 Behavioral Technologies (3). Evaluating interventions, staff training, managing treatment teams, as well as, data-based evaluation of teaching procedures, behavior outcomes and team member performance. May be taken twice for credit. Prerequisite: Graduate standing.

EAB 6780 Ethical Code in Behavior Analysis (3). Ethical issues in clinical Behavior Analysis are examined including selecting behavior targets, monitoring intervention success and transferring control to existing environmental contingencies. Prerequisite: Graduate standing.

EAB 6941 Practicum in Applied Behavior Analysis (1-3). Supervised experience in behavior analysis that meets BCBA certifications standards. Includes completion of a capstone project. May be repeated.

EDP 6935 Special Topics in Educational Psychology (VAR). An intensive analysis of a particular topic in educational psychology. Students must have topics approved by the instructor prior to registration. Open only to advanced and graduate students in the College of Education.

EXP 5099 Proseminar in Experimental Psychology (3). Provides a comprehensive review of current research and theory in areas such as learning, memory, cognition, sensation, and perception. Prerequisites: Graduate standing or permission of the instructor.

EXP 5406 Theories of Learning (3). The major theoretical systems of learning are covered, with the intent of determining how well each accounts for the phenomena of learning. Emphasis is placed on exploring the controversial issues raised by extant theories, and the experimental resolution of these theoretical controversies. The impact of theory on current thinking about learning is considered.

EXP 5508 Applied Cognitive Psychology (3). Covers the basic theories of cognitive psychology perception, attention, memory, learning, knowledge, with emphasis on application to real-world problems. Prerequisite: Graduate standing.

EXP 5527 Memory and Consciousness (3). The relation of memory and consciousness is explored with emphasis on issues of current research and theoretical work from both a cognitive and a neuropsychological perspective. Prerequisite: Graduate standing.

EXP 5667 Cognitive Neuroscience (3). Investigation of the relation between mind and brain. Discuss literature from both patient studies and from the growing research in neuroimaging. Prerequisite: Graduate standing.

EXP 7747 Practicum in Causal Modeling (3). Introduction to linear structural relations models, emphasizing logical and practical problems in inferring causation for experimental and correlational research designs.

INP 5095 Proseminar in Industrial Psychology (3). Provides coverage of industrial and personnel psychology topics such as job analysis, personnel recruitment and selection, legal aspects of employment, performance appraisal, and training design and evaluation. Prerequisites: Acceptance to Master's or Ph.D. program in Psychology.

INP 5136 Psychology of Legal Consultation (3). Practice in basic non-clinical areas in which psychologists assist attorneys, including jury selection, surveys, and simulations. Prerequisites: SOP 6098 or equivalent.

INP 6058 Job Analysis and Criteria (3). Process, sources of data, and methods for analyzing jobs. Use of job analysis in criterion development. Survey of the industrial/organizational theories and practices in performance appraisal.

INP 6090 Applied Psychology and Organizational Consulting (3). An overview of the organizational consulting process, including proposal development, managing projects and client relationships, ensuring information integrity, and understanding ethical issues. Prerequisite: Graduate standing.

INP 6115 Psychology of Culture and Organizations (3). An overview of theory and research examining the psycho-social environment of organizations, including the

factors that shape organizational cultures and climate, along with the implications for workplace motivation, morale, and productivity. Prerequisite: Graduate standing.

INP 6216 Personnel Selection (3). Characteristics of Personnel Selection systems used in organizations. Validity generalization, utility, applicant reactions, and legal cases pertaining to employee selection. Prerequisites: Proseminar in I/O and graduate level statistics course.

INP 6235 Applied Psychology of Training and Development (3). In-depth study of principles of behavior and attitude change in organizations. Topics include organization analysis, program design and implementation, and evaluation of results. Prerequisites: Acceptance to M.S. or Ph.D. program in Psychology and SOP 5616.

INP 6611 Organizational Stress (3). This seminar examines conceptualizations, causes, consequences, and correlates of stress, strain, and coping in the workplace.

INP 6940 Strategies and Methods of Applied Psychological Research (3). A practicum course in the psychological research strategies and the application of computers in the analyses of psychological data.

LIN 5701 Psychology of Language (3). An overview of the psychology of language and the psychological 'reality' of linguistic structure. Behavioristic vs. cognitive views of psycho-linguistics are examined. Consideration is given to the biological bases of language and thought, language acquisition, and language pathology.

PCO 5251 Couples and Family Systems (3). An overview of theory, research, and treatment issues related to couples and family systems. The course covers relevant techniques, training, and professional issues. Prerequisite: Graduate standing.

PCO 5252 Theory and Techniques in Couples and Marital Therapy (3). An overview of the theories and techniques used in couples and marital therapy with an examination of treatment approaches and evidence-based practice. Consideration of clinical issues and problems.

PCO 5253 Theory and Techniques in Family Therapy (3). An examination of the major theories and techniques used in family therapy with an in-depth exploration of the skills and strategies used for treating clinical issues from multiples perspectives.

PCO 5311 Theory, Treatment, and Research of Addictive Behavior (3). An overview of theory, treatment, and research findings pertaining to the process and development of addictive behavior. This course covers treatment issues related to substance abuse disorders. Prerequisite: Graduate standing.

PCO 5750 Contemporary Issues in Family Life and Process (3). An examination of selected issues that are faced during the development and life cycle of the family. Family intergenerational history and sociocultural factors will be explored.

PCO 6206 Principles & Practices of Counseling & Psychotherapy (3). Examination of the principles & practices of counseling and psychotherapy derived chiefly from cognitive behavioral psychology. Prerequisite: Graduate standing.

PCO 6254 Principles and Practices in Couples and Family Therapy (3). An examination of the principles and practices used in couples and family therapy. Counseling skills and practical issues related to couples and family therapy will be examined.

PSB 5115 Introduction to Psychophysiology: Basics of Electroencephalography and Event-Related Potentials (3). This course introduces students to the concepts, theory, and methods of human psychophysiology with a specific focus on electroencephalography (EEG) and event-related potentials (ERPs). Prerequisite: Permission of the instructor.

PSB 5247 Neurobiology of Learning and Memory (3). Seminar focusing on the themes and questions of how the brain supports learning and memory.

PSB 5615 Visual & Visuospatial Cognitive Neuroscience (3). Survey of contemporary visual cognitive neuroscience research; covers visual representation, how cognitive processes operate on such representation via interaction of visual and non-visual brain areas

PSB 6035 Introduction to Computational Cognitive Neuroscience (3). Survey of models and methods from the computational neuroscience literature that are helpful to answer questions about the mechanisms of cognition and behavior. Prerequisite: Permission of instructor.

PSB 6215 Human Neuroanatomy (3). Survey of human spinal, brainstem, subcortical, and cortical neuroanatomy with reference to physiology and disease. Prerequisite: Permission of the instructor.

PSB 6247 Biological Bases of Behavior (3). Advanced survey of biological bases of behavior. Topics include neuroanatomy, functional organization and electro-chemical processes of the nervous system, and neural bases of learning and memory. Prerequisites: Graduate standing or permission of the instructor.

PSB 6350 Cognitive Neuroimaging Methods I (3). Data acquisition methods and their psychological application in cognitive neuroimaging, including techniques from nuclear medicine, electrophysiology, and magnetic resonance imaging.

PSB 6351 Cognitive Neuroimaging Methods II (3). Data analysis methods and psychological applications in cognitive neuroimaging, including image pre-processing, statistical modeling, brain connectivity techniques, and the visualization, interpretation, and reporting of results. Prerequisite: PSB 6350.

PSY 5206C Fundamentals of Design of Experiments (3). CRD and RCB designs. Latin square designs. Factorial, nested and nested-factorial experiments. Fixed, random and mixed models. Split-plot designs. Covariance analysis. Prerequisites: STA 2122 and 3123, or their equivalents.

PSY 5246C Multivariate Analysis in Applied Psychological Research (3). Covers basic techniques of multivariate analysis, emphasizing the rationale and applications to psychological research. Includes multiple regression, Hotellings T, MANOVA, principal component analysis, and factor analysis. Prerequisites: STA 3123 or equivalent; linear algebra recommended.

PSY 5605 Proseminar: History and Systems of Psychology (3). An examination of the historical foundations of modern psychology and survey of current systems and schools of psychology. Prerequisites: Graduate standing or permission of the instructor.

PSY 5908 Directed Individual Study (VAR). Under the supervision of an instructor in the graduate degree program, the graduate student delves individually into a topic of mutual interest which requires intensive and profound analysis and which is not available in a formal offering. May be repeated once. Prerequisite: Permission of the instructor.

PSY 5918 Supervised Research (VAR). Research apprenticeship under the direction of a research professor or a thesis advisor. Prerequisite: Full graduate admission.

PSY 5930 Qualitative Research Methods in Psychology (3). Critical issues, theoretical and practical applications for conducting qualitative research in psychology. The focus will be on key research strategies and principles for research design.

PSY 5938 Current Topics in Neuroscience Series (0-1). This course provides students with the opportunity to present current topics in Neuroscience either from recently published literature or their own research. Course may be repeated for up to six credits.

PSY 5939 Special Topics in Psychology (3). Special topics will be announced in advance.

PSY 6061 Advanced Qualitative Methods Psychology (3). An advanced qualitative research analysis course that focuses on applying theory, and interpretation to hands data analysis practices and presentation. Prerequisite: PSY 5930

PSY 6219 Research Methods in Clinical Child Psychology (3). An in-depth examination of research methods used in clinical child psychology, with an emphasis on intervention research. Prerequisites: CLP 5007; CLP 5483.

PSY 6919 Current Research Topics in Psychology (3). An overview of current theory and research in psychology with a focus on the research process. Case studies illustrate the development of research programs designed to advance theory in psychology. Prerequisite: Graduate standing.

PSY 6945 Teaching of Psychology (1). An introduction to the art of college teaching and specifically the art of teaching psychology. It is designed for first-year graduate students to provide instruction and support for teaching college classes. Prerequisite: Graduate standing.

PSY 6956 Psychology Field Experience (VAR). Placement of students in applied settings for the purpose of developing community-based experience in the application of theoretical and methodological approaches. Prerequisite: Graduate standing.

PSY 6971 Master's Thesis in Psychology (3-6). Supervised research on an original research project submitted in partial fulfillment of Master's degree requirement.

PSY 7940 Supervised Teaching in Psychology (1). Supervised teaching under the guidance of faculty advisor. May be repeated only three times. Prerequisite: Doctoral graduate study.

PSY 7980 Ph.D. Dissertation (1-12). Supervised research on an original research project submitted in partial fulfillment of doctoral degree requirements. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

SOP 5058 Proseminar in Social Psychology (3). An in-depth examination of the role of social psychology in the social sciences and the major substantive problems as they relate to contemporary societal issues. Minimum Prerequisites: An introductory course in social psychology or its equivalent.

SOP 5081 Psychological Influences on Health and Illness (3). Provides a comprehensive review of theory, research, and interventions in the field of health psychology. Prerequisites: Graduate standing or permission of the instructor.

SOP 5316 Theories and Methods of Cross-Cultural Research (3). An intensive analysis of contemporary theories and methods of cross-cultural research in psychology including topics such as: culture as a research treatment, differential incidence of personality traits, the use of ethnographies, 'etic' vs. 'emic' distinction. Prerequisites: Graduate standing or permission of the instructor.

SOP 5616 Social Psychology of Organizations (3). The application of concepts and theories from social psychology and sociology to the organizational setting. Emphasis will be on role theory, value formation and the operation of norms, including their development and enforcement. Formal and informal organization structure, power and authority concepts, and leadership theories will be covered. Communication processes and networks and their effects on task accomplishment and satisfaction will be included.

SOP 5726 Proseminar on the Psychology of Stereotyping, Prejudice, and Discrimination (3). This class uses social psychology theory and concepts to understand stereotyping, prejudice, discrimination, and minority experience at an advanced level. Prerequisite: Graduate standing.

SOP 6098 Proseminar in Legal Psychology (3). The application of psychological research methods and psychological knowledge to contemporary issues in criminal and civil litigations. Prerequisite: Graduate standing.

SOP 6441 Seminar in Social Cognition (3). Provides a critical review of current theory and research on social cognition and its relationship to stereotyping, persuasion, attribution, and social perception. Prerequisite: Graduate standing.

SOP 6752 Psychology of Juries (3). A review of psychological research on juries and jury decision-making. Emphasis is placed on the critical analysis of jury research and relevant case law. Prerequisite: Graduate standing.

Certificate Programs

Graduate Certificate in Applied Behavior Analysis

Maricel Cigales, *Director, Department of Psychology*

The Graduate Certificate in Applied Behavior Analysis is a distance-learning program that is designed for individuals who wish to become Board Certified Behavior Analysts and who already have or are completing a master's degree in a related discipline. The curriculum consists of seven courses (21 credits) that comprise an approved Verified Course Sequence, under the 5th Edition Task List of the Behavior Analyst Certification Board ©. The program does not include supervised experience. Details regarding the certification process and requirements are available at www.bacb.com. This certificate program is open to degree-seeking and non-degree-seeking students.

Admission Requirements

In addition to the application, prospective students must submit the following:

1. Official academic transcripts confirming the completion of a baccalaureate degree from an accredited institution of higher education (or equivalent) and a minimum 3.0 GPA in the last two years of undergraduate work
2. Current resume or curriculum vitae. Admission to the program is competitive. Therefore, meeting these minimum requirements does not guarantee admission.

Admission to the program is competitive. Therefore, meeting these minimum requirements does not guarantee admission.

Program Requirements

The program will be delivered via a combination of an asynchronous online component with synchronous, digital class meetings. The courses will be offered over three consecutive semesters, in the spring, summer and fall, following the standard University course calendar.

Courses

EAB 6780	Ethical Code in Behavior Analysis	3
EAB 6770	Behavioral Technologies	3
EAB 5655	Advanced Methods of Behavior Change	3
EAB 6707	Learning and Development	3
EAB 6717	Science and Practice of Verbal Behavior	3
EAB 5098	Proseminar in the Experimental Analysis of Behavior	3
EAB 5797	Single-Case Research Methods	3

Graduate Certificate in Applied Social and Cultural Psychology

Graduate Certificate in Applied Social and Cultural Psychology (ASCP) is designed to train advanced doctoral psychology students in becoming action scientists prepared to work in a variety of settings in order to understand, transform, and improve the social and cultural contexts and systems in which humans develop across the lifespan. The curriculum consists of six courses (18 credits). The certificate is open to students already accepted in the Department of Psychology Doctoral program.

Admission Requirements

In addition to acceptance into the Department of Psychology Doctoral program, prospective students must complete:

- An online application
- An interview with two Core ASCP committee members

Program Requirements

Students must take a total of six graduate level classes to earn the ASCP Certificate; this is a total of 18 graduate level credits. The six must be selected from 10 approved classes. These ten courses are as follows:

CLP 5007	Psych & Clinical Science Historical Perspectives & Current Controversies
CLP 6530	Dissemination & Implementation of Research
CYP 6766	The Psychology of Cross-cultural Sensitization in a Multicultural Context
CYP 6936	Current Issues in Community Psychology
DEP 5325	Proseminar in Identity Development
PSY 6919	Current Research Topics in Psychology
PSY 5918	Supervised Research
PSY 5930	Qualitative Methods in Psychology
SOP 5058	Proseminar in Social Psychology
SOP 5316	Theories & Methods in Cross Cultural Research

Additional classes will be approved on a case by case basis; approval memo must be signed by two Core ASCP Committee Members. Additionally, all students will be required to complete specific ASCP Certificate Portfolio requirements.

Graduate Certificate in Biodiversity Conservation and Management

Hong Liu, *Director***,** *Earth and Environment*
Clinton Jenkins, *Earth and Environment*
Christopher Baraloto, *Biological Sciences*

The Graduate Certificate in Biodiversity Conservation and Management draws on areas of strength within the Department of Earth and Environment and the Department of Biological Sciences (College of Arts and Sciences) to provide students with specialized knowledge about managing and conserving the earth's biological resources. It is designed for students who seek careers in agencies that manage and conserve biological resources, for people in the private sector who seek specialized knowledge in this area, for educators seeking advanced training, or for others interested in the topic. The certificate is managed by the Department of Earth and Environment and the Biodiversity and Conservation Certificate Committee. This certificate program is open to degree-seeking students only.

Admission Requirements

Students must have an earned bachelor's degree with a minimum of a 2.75 in the last 60 credits of their upper division coursework. Students must be in good academic standing. Students should have completed a minimum of 2

courses in general biology and one course in ecology as a prerequisite to the program.

Program Requirements

Students are required to take 15 credit hours of graduate level course work outlined below. Other related courses may be approved subject to consideration by the program director and committee on a case by case basis.

1. Foundational

EVR 5409	Advanced Conservation Biology	3

2. Conservation Sciences and Management, 6 credits total

Take two courses from this list:

PCB 5046	Plant Conservation Biology	3
EVR 5069	Wetland Ecology and Management	3
EVR 5376	Advanced Ecology and Management of Invasive Species	3
SWS 5305	Advanced Soil Resources Analysis	3

3. Integrated Biological Resources Management, 6 credits total

Take two courses from this list:

PCB 5418C	Advanced Marine Protected Areas	4
BOT 5816	Ethnobotany	3
EVR 6360	Protected Area Management	3
EVR 6406	U.S. Endangered Species Management	3
EVR 6330	Tropical Ecosystems Management	3

Graduate Certificate in Cognitive Neuroscience

Aaron Mattfeld, *Director, Psychology*
Anthony Steven Dick, *Psychology*
Timothy Allen, *Psychology*
George Buzzell, *Psychology*
Sean Allen-Hermanson, *Philosophy*
Prem Chapagain, *Physics*
Raul Gonzalez, *Psychology*
Angela Laird, *Physics*
Robert Lickliter, *Psychology*
Wei-Chiang Lin, *Biomedical Engineering*
Kinsuk Maitra, *Occupational Therapy*
Dana McMakin, *Psychology*
Eliza Nelson, *Psychology*
Elaine Ramos, *Communication Sciences & Disorders*
Bennett Schwartz, *Psychology*
Fabián Soto, *Psychology*
Matthew Sutherland, *Psychology*
Jamie Theobald, *Biological Sciences*

The Graduate Certificate in Cognitive Neuroscience is designed to advance the scientific education and professional development of students through coursework covering a broad range of areas of neuroscience. The 15-credit program specifically will provide students with an interdisciplinary background in cognitive psychology/cognitive science and neuroscience. The curriculum concentrates on teaching theory and methodology for conducting and understanding research in cognitive neuroscience and its potential application to education and clinical practice. This certificate program is open to degree-seeking students only.

Admission Requirements

1. Matriculation into a graduate program or baccalaureate degree from an accredited institution of higher education (or equivalent) with a minimum 3.0 GPA in the last two years of undergraduate work;
2. Current resume or curriculum vitae;
3. Official academic transcript

Program Requirements

There are two Core Course Categories, Cognitive Neuroscience and Neuroscience, from which students must take one course each (6 credits). The remaining 9 credits can be taken from the listed Electives or from the remaining courses in the Core Course categories. Additional courses may be accepted for the certificate with approval of the Program Director.

Core Requirement 1: Cognitive Neuroscience (3 credits)

DEP 5058	Biological Basis of Behavior Development	3
EXP 5667	Cognitive Neuroscience	3
PHI 5931	Advanced Topics in Philosophy of Mind and Cognitive Science	3

Core Requirement 2: Neuroscience (3 credits)

BME 5505C	Engineering Foundation of Medical Imaging Instrument	3
PHY 6716	Advanced Biophysics	3
ZOO 5785	Advanced Neurobiology	3

Electives: (Up to 9 Credits)

CHM 5305	Graduate Biological Chemistry	3
EXP 5508	Applied Cognitive Psychology	3
EXP 5527	Memory and Consciousness	3
OTH 5524	Adaptation of Human Occupation and Environment for Neuromotor Disorders I	3
OTH 5438	Adaptation of Human Occupation and Environment for Neuromotor Disorder II	3
PCB 5835	Neurophysiology	3
PCB 5835L	Neurophysiology Lab	1
SPA 6410	Aphasia and Related Disorders	3
ZOO 5745	Advanced Neuroanatomy	3

Graduation Requirements

The graduate certificate program requires that students maintain a cumulative GPA of 3.0 or higher and earn a “B” or better in all courses counted toward the certificate.

Graduate Certificate in Environmental Studies

Mahadev Bhat, *Director, Earth and Environment*
Rod Neumann, *Global and Sociocultural Studies*
Tiffany Troxler, *Earth and Environment*
Maruthi Sridhar B. Bhaskar, *Earth and Environment*

This graduate certificate is an interdisciplinary program focused on various environmental issues that is analogous to the undergraduate Certificate in Environmental Studies. This certificate program is open to degree-seeking students only. It is aimed primarily at graduate students in Politics and International Relations, Economics, and Global and Sociocultural Studies as well as those doing an environmental concentration or track in graduate programs in Tourism, Liberal Studies, Journalism, Education (particularly Parks and Recreation

Management), and Latin American Studies. The Certificate Program provides an analytic basis for understanding local, regional and global environmental problems and their solutions.

Certificate Requirements

The Graduate Certificate in Environmental Studies requires 15 graduate credit hours as follows:

Two Core Courses: (6)

EVR 5006	Environmental Science and Sustainability
RLG 5183	Religion, Nature, and Globalization

Three Environmental Electives from the following: (9)

ANG 5267	Environmental Anthropology
SYD 5045	Population and Society
INR 5352	Environment and Security
EVR 5061	South Florida Ecology: Field Studies
EVR 5320	Environmental Resource Management
EVR 5355	Environmental Resource Policy
EVR 6360	Protected Area Management
EVR 6300	Topics in Urban Ecology
EVR 6406	U.S. Endangered Species Management
EVR 6067	Tropical Forest Conservation/Utilization
EVR 6330	Tropical Ecosystem Management
GIS 5050	Environmental GIS
EVR 5935	Special Topics in Environmental Studies
EVR 5907	Research and Independent Study
LEI 5605	Philosophical and Social Basis of Parks and Recreation
HMG 6706	Environmental Management for Tourism
EDF 6766	Education, Environment and Sustainable Future
SYD 6901	Migration and Environment
INR 6056	Environment and Development
LAA 6551	Sustainable Landscapes
EVR 7322	Methods of Sustainable Resource Management
ECP 6305	Advanced Environmental Economic

Graduate Certificate in Geographic Information Systems

Assefa Melesse, *Director, Earth and Environment*

Coordinating Committee

Maruthi Sridhar B. Bhaskar *Earth and Environment*
Zhaohui Jennifer Fu, *Library GIS-RS Center*
Jennifer Gebelein, *Earth and Environment*
Dean Whitman, *Earth and Environment*
Xin Jin, *Civil and Environmental Engineering*

A Geographic Information System (GIS) is a set of computer hardware and software used to organize, manipulate, and analyze maps and spatial data. GIS is a rapidly developing technology that can be applied to many areas of the natural sciences, social sciences, engineering, and planning.

The Graduate Certificate in Geographic Information Systems provides students with an interdisciplinary background in GIS. The program consists of graduate level courses in Geographic Information Systems and related subjects offered by the departments of Biology, Civil and Environmental Engineering, Computer Science, Earth and Environment, Global and Sociocultural Studies, Public Administration, and Statistics. This certificate program is open to degree-seeking students only.

For more information, contact the Program Director, Assefa Melesse: phone: (305) 348-6518; email: **melessea@fiu.edu**, or visit the GIS Center website: **http://gis.fiu.edu**.

Admission Requirements

Applicants must currently be enrolled in a Graduate Degree program at FIU and must exhibit basic proficiency with computers.

Prescribed Courses and Other Requirements

The certificate program will require 15 graduate level credits (5 courses) distributed as follows:

Required Courses: (One course from each of the following 3 categories)

1. Introduction to GIS

CGN 5320	GIS Applications for Civil and Environmental Engineering
GIS 5050	Environmental GIS

Students who demonstrate prior GIS course work or substantial GIS work experience may substitute this requirement with 3 elective credits from the courses listed below with approval of the Program Director.

2. Intermediate/Advanced GIS

CGN 6325	Advanced GIS for Civil and Environmental Engineering
EVR 5044	Advanced GIS and Environmental Data Analysis
GLY 5758	GIS and Spatial Analysis for Earth Sciences
SYA 6356	GIS and Social Research

or equivalent

3. Remote Sensing

GLY 5754	Applied Remote Sensing in Earth Sciences

or equivalent

Electives: (6 credits out of the following)

CCJ 6079	Geospatial Crime Analysis
COP 6727	Advanced Database Systems
EVR 6268	Remote Sensing in Hydrology
EVR 7056	GIS in Water Resources
EVR 7329	Watershed Analysis and Management
GIS 5620	Surveillance, Intelligence, and International Relations
GIS 5935	Topics in GIS
MET 5412	Remote Sensing in Meteorology
PCB 5328	Spatial Ecology
PAD 6710	IT and E-government
PAD 6717	GIS Applications for Urban Management

or equivalent

or

Additional intermediate/advanced GIS courses under Category 2 Required Courses,

or

Other GIS-related courses approved by the Program Director in consultation with the Coordinating Committee. Up to 3 credits of a graduate level statistics or data analysis course may be counted towards the Certificate requirements with approval of the Program Director.

Graduate Certificate in Quantitative Environmental Finance

Mario Loyola, *Director, Environmental Finance & Risk Management Program*
Todd Crowl, *Director, Institute of Environment*
Enrique Villamor, *Department of Mathematics & Statistics*

The Graduate Certificate in Quantitative Environmental Finance gives students the opportunity to explore the crucial intersection of environmental science, financial engineering, and climate policy. This certificate program is designed for individuals seeking to advance their careers in the financial sector as well as students wishing to integrate scholarship about environment and finance into a coherent Masters or Ph.D. program or as a free-standing program of graduate study. The certificate is open to both degree and non-degree seeking students. The certificate and its component classes will generally be offered online.

Certificate Requirements Eligibility

1. All graduate students in a Masters or Ph.D. program at FIU are eligible to apply to this program if permitted by their respective programs. The Environmental Finance & Risk Management program encourages graduate students from all colleges to participate.
2. Students with a Baccalaureate degree from an accredited university may be admitted to the graduate certificate program as non-degree seeking students.

Admissions Requirements

Students applying for the Graduate Certificate in Quantitative Environmental Finance must meet the following requirements for admission in addition to submitting the application:

1. All students must hold a bachelor's degree or equivalent from an accredited college or university;
2. All students must submit a current résumé;
3. Non-degree seeking students must have a minimum GPA of 3.0 on a 4.0 scale during the last two years of upper division coursework; and
4. Degree-seeking students must be fully admitted to a graduate program and be in good academic standing.

Admission to the program is competitive. Therefore, meeting these minimum requirements does not guarantee admission.

Program Requirements

Certificate candidates must complete a total of 15 credit hours from the approved classes. All students must take the Foundation course, but this requirement can be waived for students with the necessary math background. All students must take the two Core Requirement classes and the Capstone class. Students must complete the fifteen credits with electives from among the list of Elective Courses or an approved alternative.

Students must maintain an average GPA of 3.0 or above and must earn a "C" or above in all courses counting toward the certificate.

Foundation

MAP 5620 Primer on the Mathematics of Environmental Financial Engineering (Can be waived for students who have the necessary background) (3 credits)

Core Requirements (6 credits)

MAP-6622 Quantitative Environmental Finance
EVR 5086 Advanced Environmental Data Analysis for Environmental Finance

Elective Courses

LAW 6470	Natural Resources Law	3
MET 5365	Techniques for Earth System Modeling and Research	3
GLY 5457	Geophysical Data Analysis	3
MAP 5117	Mathematical and Statistical Modeling	3

Capstone Course (Required)

MAP 5629	Quantitative Capstone in Environmental Finance	3

Graduate Certificate in Marriage and Family Therapy

Lisa Arango, *Director, Psychology*

The Graduate Certificate in Marriage and Family Therapy offered through the Department of Psychology, is a 15-credit program that offers advanced education and specialized training in Marriage and Family Therapy. The curriculum concentrates on teaching theory, skills, and techniques for conducting therapy with couples and families within multicultural populations. Students will also gain knowledge and understanding of the legal and ethical guidelines in couples and family therapy, and socio-cultural issues that impact families.

The curriculum will fulfill partial educational requirements for licensure as a Marriage and Family Therapist by the Florida Board of Clinical Social Work, Marriage and Family Therapy, and Mental Health Counseling. Courses from this program can also be applied as elective courses for students in the Counseling Psychology Masters Program offered through the Department of Psychology. This certificate program is open to both degree- and non-degree seeking students.

Admission Requirements

Students applying for the Graduate Certificate in Marriage and Family Therapy must meet the following requirements for admission in addition to submitting the application:

1. Hold a bachelors degree or equivalent from an accredited college or university;
2. Have a minimum GPA of 3.0 on a 4.0 scale during the last two years of upper division coursework;
3. Statement of intent;
4. Two letters of recommendation;
5. Current resume; and
6. Official academic transcript.

Program Requirements

The graduate certificate program requires that students maintain a GPA of 3.0 or higher for successful completion of the program and earn a "B" or better in all courses of the certificate.

Semester I

PCO 5251	Couples and Family Systems	3

And one of the following:

PCO 5750	Contemporary Issues in Family Life and Process	3
CYP 6766	The Psychology of Crosscultural Sensitization in a Multicultural Context	3

Semester II

PCO 5253	Theory and Techniques in Family Therapy	3
PCO 5252	Theory and Techniques in Couples and Marital Therapy	3

And one of the following:

PCO 6254	Principles and Practices in Couples and Family Therapy	3
LAW 6710	Family Law	2-3

Graduate Certificate in Water, Environment and Development Studies

Assefa M. Melesse, *Chair, Earth and Environment*

Coordinating Committee
Shlomi Dinar, *Politics and International Relations*
René Price, *Earth and Environment*
Mike Sukop, *Earth and Environment*

The goal of the Graduate Certificate in Water, Environment, and Development Studies is to provide students with a multidisciplinary education in the occurrence, characteristics, and management of water resources in South Florida and internationally. Students will learn about the natural occurrence and dynamics of surface and ground water, the key biological and chemical factors affecting water resource quality, and the fundamental linkages between water and development. The graduate certificate program promotes an integrated understanding of the theoretical and practical elements of water resources management. This certificate program is open to degree-seeking students only.

Certificate Requirements

The Graduate Certificate Program requires the successful completion of 15 credit hours of graduate course work. Students must maintain an average GPA of 3.0 or above and must earn a "C" or above in all courses counting toward the certificate. All students in the program are required to take one foundation course and at least one course from both the natural science and social science lists below. The remaining 6 credits may be satisfied with any combination of approved courses listed below. Additional courses may be considered with the approval of the Certificate Chair.

Required Foundation Course

EVR 5332	Integrated Solutions for Water in Environment and Development	3

Natural Science, Engineering, and Public Health Courses

(all students must take at least one)

PCB 4301	Freshwater Ecology	3
EVR 5219	Water Resources Assessment	3
EVS 5145	Ecotoxicology	3
GLY 5245	Water-Rock Interaction	3
GLY 5266	Stable Isotope Biogeochemistry	3
PCB 5307	Limnology	3
ISC 6153	Environments of a Changing Planet	3
GLY 5827	Hydrogeology	3
BOT 5406	Algal Physiology	3
ENV 5517*	Design of Wastewater Treatment Plants	3
ENV 5666*	Water Quality Management	3
GLY 5754	Applied Remote Sensing in the Earth Sciences	3
CHM 5765	Aquatic Chemistry	3
GLY 5826	Hydrogeologic Modeling	3
GLY 5827	Hydrogeology	3
GLY 5828	Chemical Hydrogeology and Solute Transport	3
EVR 5905	Independent Study (or any other independent study from other departments)	3
EVR 7056	GIS in Water Resources	3
CWR 5125	Groundwater Hydrology	3
CHM 6340*	Organic Geochemistry	3
CWR 5140C*	Ecohydrology	3
ENV 6615	Environmental Impact Assessment	3
GLY 6896	Advanced Topics in Hydrology	3
EVR 7329	Watershed Analysis and Management	3
EVR 6268	Remote Sensing in Hydrology	3
EVR 5069	Wetland Ecology and Management	3

*Engineering graduate courses are offered for graduate students with a relevant engineering background or other students meeting needed prerequisites and applicable criteria. Students must confirm their eligibility, in advance to any registration, with either the Civil and Environmental Engineering Graduate Program Director and the responsible instructor.

Social Science and Public Health Courses

(all students must take at least one)

CPO 5036	Politics of Development	3
SYD 5045	Population and Society	3
INR 5352	Environment and Security	3
EVR 6377	Nat Resource Conservation & Policy	3
ANG 5267	Environmental Anthropology	3
INR 5409	International Law I	3
SYP 5447	Development and Post-Development	3
INR 5507	International Organizations	3
INR 5607	International Relations and Development	3
INR 6056	Environment and Development	3
SYD 6236	International Migration and Refugees	3
PHC 6315	Introduction to Environmental Health Sciences	3
EVR 7322	Methods of Sustainable Resource Management	3
PHC 6410	Health Behavior and Public Health	3
PHC 6425	Legal and Regulatory Aspects of Environmental Health	3
PHC 6520	Public Health Aspects of Foodborne Diseases	3
PHC 6115	Global Perspectives of Env Health in the Caribbean and Latin America	3

Seminar Requirements

Students are expected to attend at least five seminars during each semester that they are enrolled in the Certificate Program. Early in each semester, students will be provided with a schedule of water-related seminars offered in departments across campus. The departments of Biology, Chemistry and Biochemistry, Civil and Environmental Engineering, Earth and Environment, Environmental and Occupational Health, Global and Sociocultural Studies, and Politics and International

Relations each sponsor seminar series that commonly include water-related topics.

Students are also required to give a presentation on a water-related theme in a departmental seminar or professional conference.

Graduate Certificate in Women's and Gender Studies

M. Alexandra Cornelius, *Director, Center for Women's and Gender Studies and Associate Teaching Professor, Center for Women's and Gender Studies*
Victoria Burns, *Associate Teaching Professor, Women's and Gender Studies*
R. Gabriel Mayora, *Assistant Teaching Professor, Women's and Gender Studies and English*
Michaela Moura-Koçoğlu, *Associate Teaching Professor, Women's and Gender Studies*

The Women's and Gender Studies Graduate Certificate provides students the opportunity to integrate scholarship about women and gender differences into a coherent program of graduate study, i.e., for a Masters and Ph.D. in a variety of disciplines or as a free standing program of graduate study. This certificate program is open to both degree and non-degree seeking students. For more information, please visit our website at: **http://cwgs.fiu.edu/**

Certificate Requirements

Eligibility

1) All graduate students in an M.A. or Ph.D. program at FIU are eligible to apply to this program. The Center for Women's and Gender Studies encourages graduate students from all colleges to participate.
2) Students with a Baccalaureate degree from an accredited university may be admitted to the graduate certificate program as a non-degree seeking student.
3) Undergraduate students in their senior year may take graduate level courses to complete their graduate certificate as a post-baccalaureate certificate.

Admissions Requirements

Students applying for the Graduate Certificate in Women's and Gender Studies must meet the following requirements for admission in addition to submitting the application:

1) Hold a bachelor's degree or equivalent from an accredited college or university;
2) Have a minimum GPA of 3.0 on a 4.0 scale during the last two years of upper division coursework;
3) Statement of intent;
4) Current resume;
5) Official academic transcript.

Certificate candidates must complete a total of 15 credit hours at the **5000 level or higher.** Students must maintain an average GPA of 3.0 or above and must earn a "C" or above in all courses counting toward the certificate. **6** credit hours from the core requirements + **9** credit hours from the list of graduate level electives = 15 credit hours:

Core Requirements (6 credits)
Choose two of the following courses of from any other graduate level WST courses:

WST 5116	Gender Violence and the Law: Global Perspectives
WST 5507/ LIT 5556	Feminist Theory
WST 5618	Gender and Genocide
WST 5935	WST Special Topics
WST 5946	Women's Studies Internship
WST 5936	Women and Leadership
WST 5905	Independent Study

Graduate Level Electives (9 credits)
Choose from approved list of graduate level Women's and Gender Studies electives. These include:

EDH 6050C	Women in Higher Ed
EDH 7931	Seminar on Class, Gender, and Race in Higher Ed
INR 5088	Feminism and IR
LBS 5155	Workplace Diversity
LBS 5215	Women in the Workplace
SYD 5708	Advanced Race, Gender, Sexuality: Entanglements Across Time and Space

For more options, please see our current full list of approved courses on our website: **http://cwgs.fiu.edu/**.

Students may apply up to three credit hours of thesis or dissertation research to the certificate if the research has a prominent focus on women and gender.

College of Arts, Sciences and Education

Executive Dean **Michael R. Heithaus**
Dean, School of Education and Human Development **Laura Dinehart**
Dean, School of Environment, Arts, and Society **Anna Luszczynska**
Dean, School of Integrated Science and Humanity **Walter Van Hamme**
Associate Dean, Undergraduate Studies **Maricel Cigales**
Associate Dean, Graduate Studies **Brian Raue**
Associate Dean, Research **Rita Teutonico**
Assistant Dean, Accreditation and Assessment **Deborah J. Hasson**
Assistant Dean, College Operations **Hector Junco**
Director of Liberal Studies **Wanda Raiford**

Chairpersons and Program Directors:

Biological Sciences **De Etta Kay Mills**
Chemistry and Biochemistry **Yong Cai**
Counseling, Recreation and School Psychology **Aaron Kuntz**
Earth and Environment **Leonard Scinto**
Educational Leadership and Policy Studies **Daniel Saunders**
English **Shawn Christian**
Forensic Science **De Etta Mills**
Liberal Studies **Wanda Raiford**
Linguistics **Yao Bin Liu**
Mathematics and Statistics **Louis Roder Tcheugoue Tebou**
Philosophy **Paul R. Warren**
Physics **Werner Boeglin**
Psychology **Raul Gonzalez**
Teaching and Learning(Interim) **Sara Mathews**
Women's and Gender Studies **Marie Alexandra Cornelius**

Faculty

Abad, Carla V., Ph.D. *(Florida International University), Assistant Teaching Professor, Psychology*
Abrahamyan, Tigran., Ph.D. *(Florida International University), Assistant Teaching Professor, Physics*
Acuna-Borrero, Yasbel, Ph.D. *(University of Miami), Associate Teaching Professor, English*
Adelman, Andrea, Ph.D. *(University of Miami), Clinical Assistant Professor, Early Childhood Education*
Allen, Amanda N., Ph.D., *(University of Missouri), Assistant Professor, Counseling, Recreation and School Psychology*
Allen, Leila M., Ph.D. *(University of California Irvine), Assistant Teaching Professor and Director of Behavioral Neuroscience, Psychology*
Allen, Timothy A., Ph.D. *(University of California-Irvine), Associate Professor, Psychology*
Allen-Hermanson, Sean J., Ph.D. *(University of Toronto), Professor, Philosophy*
Almirall, Jose R., Ph.D. *(University of Strathclyde, Scotland), Professor, Chemistry and Biochemistry*
Amorim, Jacqueline, Ph.D. *(University of Florida), Associate Teaching Professor, English*
An, Dongmei, M.S. *(Mississippi State University), Associate Teaching Professor, Mathematics and Statistics*
Anderson, Elizabeth, Ph.D. *(University of Georgia), Associate Professor, Earth and Environment*
Anderson, Emily, Ph.D. *(Pennsylvania State University), Assistant Professor, International/Intercultural Education Educational Policy Studies*
Anderson, Matthew, Ph.D. *(Oklahoma State University), Assistant Teaching Professor, Biological Sciences*
Anderson, William T., Ph.D. *(Swiss Federal Institute of Technology, Zurich), Professor, Earth and Environment Associate Vice President, Office of Research and Economic Development*
Arango, Lisa L., Ph.D. *(Florida International University), Teaching Professor, Psychology*
Aylsworth, Timothy, *Ph.D. (University of Wisconsin Madison), Assistant Professor, Philosophy*
Bagner, Daniel M., Ph.D. *(University of Florida), Professor, Psychology*
Bahrick, Lorraine, Ph.D. *(Cornell University), Distinguished University Professor, Psychology*
Bang, Hyejin, Ph.D. *(University of Minnesota), Associate Professor, Recreation and Sport Management, Counseling, Recreation and School Psychology*
Baraloto, Christopher J., Ph.D. *(University of Michigan), Professor, Biological Sciences, Director, International Center for Tropical Botany, and Associate Director of the Institute of Environment*
Barbetta, Patricia, Ph.D. *(Ohio State University), Associate Professor, Special Education, Teaching and Learning*
Barbieri, Manuel A., Ph.D. *(Universidad Nacional de San Luis, Argentina), Professor, Biological Sciences*
Barnes, Marie, Ph.D., *(Florida International University), Assistant Teaching Professor, Psychology*
Barrett, Lynne M., M.F.A. *(University of North Carolina-Greensboro), Professor, English*
Becker, David A., Ph.D. *(Massachusetts Institute of Technology), Associate Professor, Chemistry and Biochemistry*
Beer, Michelle C., Ph.D. *(University of Pittsburgh), Associate Professor, Philosophy*
Belcher, Kacee, **M.F.A.** *(Florida International University) Associate Teaching Professor, English*
Bekker, Leonid, M.S. *(Florida International University), Teaching Professor, Mathematics*
Benaduce, Ana Paula, Ph.D. *(Florida International University), Assistant Teaching Professor, Biological Sciences*
Bennett, Bradley C., Ph.D. *(University of North Carolina-Chapel Hill), Professor, Biological Sciences and Earth and Environment*
Bennett, Kyle, Ed.D. *(Florida Atlantic University), Assistant Professor, Special Education, Teaching and Learning*
Bentley-Baker, Dan B., M.F.A. *(Florida International University), Teaching Professor, English*
Berk, Lynn, Ph.D. *(Purdue University), Professor Emerita, English*
Berry, John P., Ph.D. *(Cornell University), Associate Professor, Chemistry and Biochemistry*
Bessaih, Hakima, Ph.D. *(Scuola Normale Superiore, Italy), Professor, Mathematics and Statistics*
Bhaskar, Maruthi Sridhar B., Ph.D. *(Mississippi State University), Associate Professor, Earth and Environment*
Bhat, Mahadev G., Ph.D. *(University of Tennessee-*

Knoxville), Professor, Earth and Environment

Bickman, Leonard, Ph.D., *(City University of New York), Research Professor, Psychology*

Bigger, Charles H., Ph.D. *(Florida State University), Professor Emeritus, Biological Sciences*

Bigliassi, Marcelo, Ph.D. *(Brunel University, UK), Assistant Professor, Physical Education, Kinesiology, and Exercise Science, Teaching and Learning*

Blanchard, Jesse, Ph.D. *(Florida International University), Assistant Teaching Professor, Earth and Environment*

Blanco, Richard, M.F.A, *(Florida International University), Associate Professor, English*

Blanton, Linda, Ed.D. *(Indiana University), Professor Emeritus, Special Education, Teaching and Learning*

Blatt, Heather E., Ph.D. *(Fordham University), Associate Professor, English*

Bleiker, Charles, Ph.D. *(Stanford University), Associate Professor, Early Childhood Education, Teaching and Learning*

Bliss, Leonard, Ph.D. *(Syracuse University), Professor Emeritus, Statistics and Research Design, Counseling, Recreation and School Psychology*

Bluck, Asa, Ph.D. *(University of Nottingham-UK), Assistant Professor, Physics*

Boeglin, Werner U., Ph.D. *(University of Basel, Switzerland), Professor and Chair, Physics*

Bolson, Jessica, Ph.D. *(University of Miami), Teaching Professor, Earth and Environment*

Bone, Richard A., Ph.D. *(University of West Indies, Jamaica), Professor, Physics*

Boswell, Kevin Mershon, Ph.D. *(Louisiana State University), Associate Professor and Director of Marine Biology Undergraduate Studies, Biological Sciences*

Bracken-Grissom, Heather, Ph.D. *(University of Louisiana at Lafayette), Associate Professor, Biological Sciences and Assistant Director of the Coastline and Oceans, Division of the Institute of the Environment*

Bradham-Cousar, Michelle, Ph.D. *(University of South Florida), Clinical Assistant Professor, Counselor Education, Counseling, Recreation and School Psychology*

Bray, David B., Ph.D. *(Brown University), Professor, Earth and Environment*

Brew, Eric, Ph.D. *(Arizona State University), Associate Professor, Science Education, Teaching and Learning*

Brinn, Lisa S., Ph.D. *(University of Sao Paulo), Teaching Professor, Biological Sciences*

Brinn, Richard, Ph.D. *(University of Sao Paulo State), Teaching Professor, Biological Sciences*

Brookes, David T., Ph.D. *(Rutgers University), Assistant Professor, Physics*

Bruk-Lee, Valentina, Ph.D. *(University of South Florida), Associate Professor, Psychology*

Bukhryakov, Kostantin, Ph.D. *(Lomonosov Moscow State University) Assistant Professor, Chemistry and Biochemistry*

Burgman, Robert J., Ph.D. *(George Mason University), Associate Professor, Earth and Environment*

Burkepile, Deron E., Ph.D. *(Georgia Institute of Technology), Assistant Professor, Biological Sciences*

Burns, James, Ed.D. *(George Washington University), Associate Professor, Curriculum and Instruction, Teaching and Learning*

Burns, Victoria, Ph.D. *(University of Miami), Associate Teaching Professor, Women's and Gender Studies*

Burt, Isaac, Ph.D. *(University of Central Florida), Associate Professor, Counselor Education, Counseling, Recreation and School Psychology*

Butler, Mark J. IV, Ph.D. *(Florida State University), Walter and Rosalie Goldberg Professor of Tropical Ecology and Conservation, Biological Sciences*

Buzzell, George, Ph.D*., (George Mason University), Assistant Professor, Psychology*

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Wang, Xiaotang, Ph.D. *(University of Iowa), Associate Professor, Chemistry and Biochemistry*

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Wells, Jeffrey D., Ph.D. *(University of Illinois at Chicago), Associate Professor, Biological Sciences and MSFS Graduate Program Director*

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Yacoub, Mohamed, Ph.D., *(Missouri State University), Assistant Teaching Professor, English*
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Yavas, Mehmet S., Ph.D. *(University of Kansas), Professor, English*
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Zhang, Yuying, Ph.D. *(University of Maine), Associate Professor, Biological Sciences*
Zhu, Ping, Ph.D. *(University of Miami), Professor, Earth and Environment and International Hurricane Center*
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Zuniga, Noel E., Ph.D. *(University of Paris XI-Orsay), Lecturer, Mathematics and Statistics*
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College of Business
Alvah H. Chapman, Jr., Graduate School of Business

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Associate Dean, International Programs	**Sumit Kundu**
Associate Dean for Research and Doctoral Studies	**George Marakas**
Executive Director, Marketing and National Branding	**Jeffrey Heebner**
Executive Director, Student Success and Innovation	**Kelly G. Ferguson**
Director, Graduate Program Administration	**Angel Burgos**
Director, Executive and Professional Education	**Jacqueline Sousa**
Director, Global Recruitment and Operations	**Anna Pietraszek**
Director, Business Career Management	**John Nykolaiszyn**

Department Chairs and School Directors:

School of Accounting	**Mark Myring**
Finance	**Shahid Hamid**
Global Leadership and Management	**Ravi Gajendran**
Information Systems and Business Analytics	**Karlene Cousins**
International Business	**William Newburry**
Marketing and Logistics	**Anthony Miyazaki**
Director, Tibor and Sheila Hollo School of Real Estate	**Eli Beracha**

Mission Statement

The Chapman Graduate School in the College of Business exists to create enduring educational value for our students, for our alumni, and for the business, professional, and academic communities we serve.

For our students—whom we prepare to succeed in a rapidly changing, technology-driven global business environment;

For our alumni—to whom we provide opportunities for continuing professional development and a legacy that appreciates as our excellence grows;

For the business and professional communities—to whom we offer knowledgeable graduates, educational programs, research, and collaborative projects;

For the academic community—to whom we bring new knowledge through high-quality research and the development of future scholars.

The Alvah H. Chapman Jr., Graduate Business School is a school distinguished among urban public business schools as a center for global business education, technology, and research. Our most noteworthy teaching and research expertise lies in the business arenas linking South Florida, Latin America, and the world economy.

The College itself offers undergraduate, graduate, professional education, customized training, and executive education programs to enterprises around the world. While continuing to meet the needs of students in the South Florida community, we are intensifying our educational service delivery to international students and enterprises, especially those in Latin America.

In all of our programs, we strive to instill in students a profound understanding of the changing nature of international business in an integrated and digital global economy. We ensure they are well versed in the impact information technology is having on how enterprises are organized and managed and on how products and services are created and marketed. We provide them with a solid grasp of business processes, the ability to think critically and to solve problems ethically, and the sense to conduct themselves with integrity and within the context of social and environmental responsibility. We foster their commitment to life-long learning in a dynamic, complex, and competitive world.

Our faculty engage in basic and applied research and in instructional development to contribute not only to the general knowledge base in the field of business but also to the ways in which this knowledge is created and shared. The College boasts a state-of-the-art information technology infrastructure that enables us to provide leading edge instruction and research, including online course delivery. At the same time, our IT investment supports our ongoing curricular innovation in related fields like enterprise-wide computing and logistics.

Organization

The College is organized into the Alvah H. Chapman, Jr., Graduate School of Business, the School of Accounting, the Tibor and Sheila Hollo School of Real Estate, and the Departments of Finance, Global Leadership and Management, Information Systems and Business Analytics, International Business, as well as Marketing and Logistics.

The College also houses several centers of excellence dedicated to teaching, research, and service. These include the Jerome Bain Real Estate Institute, the Ryder Center for Supply Chain Systems, the Knight Ridder Center for Excellence in Management, the Office of Professional Education, the Office of Executive and Professional Education, and the Global Center for Entrepreneurship and Innovation.

Graduate Programs

The Chapman Graduate School offers a Doctor of Philosophy (Ph.D.) in Business Administration, and a Doctorate in Business Administration (D.B.A.) as a track under the Ph.D. program, Master of Business Administration (MBA), Master of Business administration in Business Analytics, Master of International Business (MIB), Master of Accounting (MACC), Master of Science in Finance (MSF), Master of Science in International Real Estate (MSIRE), Master of Science in Information Systems (MSIS), Master of Science in Health Informatics and Analytics (MSHIA), Master of Science in Human Resource Management (MSHRM), and Master of Science in Marketing (MSM). In addition, the school offers programs leading to a Certificate in Healthcare Management, Certificate in Business Analytics, Graduate Certificate in Advanced Business Analytics, Graduate Certificate in Cybersecurity Management and a Certificate in Health Informatics and Analytics.

Ph.D. Program

The Chapman School offers a Ph.D. in Business Administration. The objective of this degree program is to prepare students for a career in academia by building their understanding of the substantive domains and literature within their selected areas of concentration. It provides them with the methodological and analytical tools required for executing research and creating knowledge. It develops their skills in formulating, conducting, and communicating quality research. In the process, it also fosters their ability to teach effectively.

The Ph.D. program typically requires a minimum of four years of full-time study. The first two years involve coursework and summer projects. The remaining two years focus on completion of a dissertation. Students will take a minimum of 16 courses (with a minimum of six courses in their chosen area of concentration). Students also will complete summer research projects under faculty supervision.

Areas of Concentration

Accounting, Management Information Systems, Marketing, Finance, and Management, which includes the sub-areas:

- Strategic Management
- Entrepreneurship
- International Business and International Management
- Human Resource Management
- Organizational Behavior
- Hospitality Management

Ph.D. Admission Requirements

All qualified students are encouraged to apply to the program, regardless of their sex, age, race, color, creed, handicap, marital status, or national or ethnic origin. Applications are accepted from prospective students with a broad variety of educational backgrounds, including areas like business, liberal arts, and the sciences. Those students selected for the Ph.D. program must demonstrate strong evidence of ability, scholarly interest, and success.

Applicants should submit the following:

1. A completed application form and processing fee.
2. Three letters of recommendation.
3. Official transcripts from all institutions in which the applicant has completed any undergraduate and graduate course work.
4. All applicants are required to have taken either the GMAT or GRE within five years of their application. A GMAT score (or its GRE equivalent) of 600 or higher and a 3.0 GPA or better in post-secondary education is desired, although some applicants falling short of these desired scores and grades have been accepted into our program. Those with GMAT score below 500 or its GRE equivalent score will NOT be considered for admission. For more information about how to covert a GRE score into its GMAT equivalent, go to: **http://www.ets.org/gre/comparison**.
5. A formal statement of purpose for seeking the doctoral degree and specific reasons for applying to Florida International University.
6. A curriculum vitae.
7. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required. Such applicants also should review the "General Admission Requirements for Foreign Students" in the "Admission" section of this catalog.

The College admits a new class of doctoral students every year during the Fall semester.

Complete applications must be received by January 15. Acceptance decisions for fall admission are typically made not later than March.

Applicants are considered once all the required documents have been received.

Degree Requirements

General degree requirements for all candidates for a Ph.D. in Business Administration include:

1. Successful completion of all required coursework.
2. Successful completion of a comprehensive examination at the end of this coursework.
3. Successful completion of a doctoral dissertation.

Financial Aid

Applicants to the doctoral program may request financial aid by completing the appropriate form. Stipends requiring a mixture of research and teaching are also available. These stipends may include both a cash award and a tuition waiver, depending upon the applicant's qualifications. If you wish to apply for a stipend include this request with your application documents.

Note: The programs, policies, requirements, and regulations listed in this catalog are subject to continual review in order to meet the needs of the University's various publics and to respond to the mandates of the State Board of Education and the Florida Legislature. Changes may be made without advance notice. Please refer to the "General Information" section of this catalog for the University's policies, requirements, and regulations.

For more information please refer to our website: **http://business.fiu.edu** or call (305) 348-1746.

Doctorate in Business Administration Track

The Chapman School offers a Doctorate in Business Administration (DBA). This program is offered as a track under the Ph.D. program and is designed for working senior-level professionals who desire to achieve a doctoral degree in business while continuing their work responsibilities and careers. The DBA will prepare students with the advanced knowledge necessary to manage complex organizational environments and solve real-world problems via the conduct of applied research in all areas of business. It provides them with the methodological and analytical tools required for executing applied research as well as the skills in formulating and communicating quality applied research.

The FIU DBA program of study is a 75-hour, three-year curriculum that focuses on every aspect of applied business research including strategic planning, organizational behavior, human resource management, financial management, innovation and entrepreneurship, and quantitative research. The program is taught using a cohort-based approach and a combination of online and

on-campus instruction. A total of 27 residencies are required over the three-year program. The students will take 21 courses and will be required to complete a dissertation project in their third year under faculty supervision.

DBA Track Admission Requirements

All qualified students are encouraged to apply to the program, regardless of their sex, age, race, color, creed, handicap, marital status, or national or ethnic origin. Applications are accepted from prospective students with a broad variety of educational backgrounds, including areas like business, liberal arts, and the sciences. Successful applicants must have a minimum of 10 years of work experience with a minimum of seven years of which must have been in a documented managerial role (managing people, budgets, projects), and a Master's degree from an accredited college or university. Those students selected for the DBA program must demonstrate strong evidence of ability, scholarly interest, and success.

Applicants should submit the following:

1. A completed application form and processing fee.
2. Two letters of recommendation.
3. Official transcripts from all institutions in which the applicant has completed any undergraduate and graduate course work.
4. A formal statement of purpose for seeking the DBA degree and specific reasons for applying to Florida International University.
5. A resume detailing chronological professional experience and dates of earned degrees.

The College admits a new class of DBA students every year during the Fall semester. Applications for the DBA program are accepted on a rolling basis. Acceptance decisions for fall admission are typically made up through August 1 of each intake year. Applicants are considered once all the required documents have been received.

Degree Requirements

General degree requirements for all candidates for a Doctorate in Business Administration include:

1. Successful completion of all required coursework.
2. Successful completion of a doctoral dissertation.

The following courses and sequence are required for the DBA:

Fall A Year I		
QMB 7910	Quantitative Research Methods I	3
GEB 7918	Philosophy and Process of Applied Business Research	3
Fall B Year I		
GEB 7910	Quantitative Research Methods II	3
GEB 7912	Experiment and Survey Design	3
Spring A Year I		
MAN 7207	Theory of Organizations	3
GEB 7892	Advanced Theory Development	3
Spring B Year I		
GEB 7366	Financial Issues in the Global Environment	3
	OR	
GEB 7897	Advanced Statistical Analysis and Structural Equation Modeling	3
MAN 7916	Doctoral Research Project in Business	3
Summer Year I		
GEB 7913	Summer Research Project and Qualifying Examination	3
Fall A Year II		
GEB 7911	Qualitative Research Methods I	3
GEB 7365	International Business Theory and Practice	3
Fall B Year II		
GEB 7915	Qualitative Research Methods II	3
MAN 7275	Organizational Behavior	3
Spring A Year II		
GEB 7876	Marketing and Behavioral Theory	3
	OR	
ISM 6136	Business Intelligence Applications	3
MAN 7718	Analysis of Corporate Policy Methods	3
Spring B Year II		
MAN 7206	Organizational Analysis	3
GEB 7981	DBA Dissertation Preparation	3
Summer Year II		
GEB 7982	DBA Dissertation	3
Fall Year III		
GEB 7982	DBA Dissertation	9
Spring Year III		
GEB 7982	DBA Dissertation	9
Summer Year III		
GEB 7982	DBA Dissertation	3

Residencies

Each semester will have four required residencies plus one additional residency at the beginning of each Fall term for a total of 27 required residencies over the three-year program. The initial Fall term residency will be the Thursday before the first residency for orientation (typically during third week of August) with all remaining residencies occurring monthly on a Friday and Saturday (typically toward the end of each month).

Financial Aid

Applicants to the DBA program may request financial aid through external scholarships, and federal student loans by completing the FAFSA application for those who qualify.

Note: The programs, policies, requirements, and regulations listed in this catalog are subject to continual review in order to meet the needs of the University's various publics and to respond to the mandates of the State Board of Education and the Florida Legislature. Changes may be made without advance notice. Please refer to the "General Information" section of this catalog for the University's polices, requirements, and regulations.

For more information, please refer to our website: http://business.fiu.edu or call (305)348-0148.

Master's Degree Programs

The Chapman Graduate School of Business aims to provide a high-quality graduate educational experience rooted in our Miami location and focused on the unique

requirements for doing business in a global and interconnected market.

Application Procedures

To apply for admission to graduate study in the Chapman Graduate School, prospective students must:

1. Submit a Graduate Application for Admission to the Admissions Office. The application form can be accessed online at (**https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html**).
   The admission process may take as long as two months after the University receives a student's application, depending upon the time involved in obtaining transcripts and test scores. Students are encouraged to apply early.
2. Have a copy of the official transcripts of all previously earned college or university credits sent from the formerly attended institution(s) to the Chapman's Graduate Admissions Office. Copies submitted directly by student applicants will not be accepted.
3. Submit scores, if applicable, on the Graduate Management Admissions Test (GMAT) or Graduate Record Examination (GRE), administered by the Educational Testing Service (ETS), Box 966, Princeton, New Jersey 08540. Scores must be submitted by the ETS. Registration forms will be mailed upon request. Have the ETS submit TOEFL scores as well, if applicable. For additional requirements, consult individual program offices listed below.
4. Applications are normally accessed on a program by program basis and there is some variation in requirements across programs. Applicants should review the requirements for a specific program.
5. The Associate Dean of the Chapman Graduate School of Business, in consultation with and advisement by program academic directors, retains the right to waive an individual Chapman Graduate School of Business admissions requirement for a specific applicant upon petition. This ability does not include waivers for University Graduate School (UGS) requirements such as those for English proficiency.

Transfer Credit

A student may receive permission to transfer up to a maximum of nine semester hours of graduate credit towards a Master of Science degree program or twelve semester hours of credit for a Master of Business Administration degree program, if:

1. The courses were taken at the graduate level at an accredited college or university;
2. The courses were not introductory or survey in nature;
3. The student earned grades of "B" or higher in the courses;
4. The courses are judged by the Department Chair, College Dean, Graduate School Dean, and program manager to be relevant to the student's graduate program;
5. The credits were completed within six years immediately preceding the College's awarding of the degree. Credits are not transferable until the student has earned 15 semester hours in a Chapman School graduate degree program.

Degree Requirements

To be eligible for a Master's degree, a student must:

1. Satisfy all University requirements for a Master's degree;
2. Satisfy required prerequisites;
3. Meet the requirements of his or her graduate "Course of Study." This "Course of Study" is developed by the student and his or her graduate advisor or degree program director following his or her admission to a program and is approved by the appropriate Department Chair, Academic Advisor, or Program Director.
4. Complete the required courses in the specific graduate program in which he/she is enrolled.
5. Earn a minimum average of "B" (3.0) in all approved courses in the student's approved course of graduate study.

No courses in which a graduate student earns a grade below "C" may be counted towards any Master's degree program in the Chapman School. However, all approved undergraduate and graduate course work a graduate student takes will be counted in computing his or her grade point average, including courses in which he or she has earned a "D" or "F" grade. To improve a grade, please refer to the University Forgiveness Policy under General Information.

Faculty have the discretion to administratively drop students who do not attend the first class of a course.

Time Limit

All work applicable to a Master's degree, including transfer credit, must be completed within six years immediately preceding the awarding of the degree.

Study Abroad Programs

Graduate students in the College may earn a maximum of three (3) credit-hours for study abroad programs unless otherwise prescribed by their degree program.

Dual Degree Programs

The Chapman School has developed a series of dual degree programs with universities in Asia, Europe, and Latin America whereby partial credit is given by both institutions for academic work carried out in each respective program. This leads to the possibility of obtaining two Masters degrees, one from each partner institution, in less time and with fewer credits than if the two degree programs were taken sequentially.

Joint Degree Programs

Approval has been obtained for students in one of the Chapman School's Masters programs to qualify for a joint degree program with other Chapman School programs (e.g., MBA and MS in Finance) as well as with other university graduate programs (e.g., Joint MBA-JD program). See below for more information.

Scholarships

The Chapman Graduate School of Business has set aside funds from operations and donations to the School to support a limited program of scholarships destined to cover tuition and fees for our International MBA, Master of International Business, and other value-added Master's degree programs. These scholarships are limited. Priority will be given to students who are admitted to a program and exhibit extraordinary academic merit in addition to

financial hardship. For more information, interested students and candidates should contact the respective Program Manager.

Master of Business Administration (MBA)

The College offers several programs leading to the MBA degree. Programs are designed to meet different student needs and are offered in different locations and delivery modes including online, face-to-face, and blended, hybrid modes. The MBA programs are: the Executive MBA, the Professional MBA, the Professional MBA Healthcare Management Track, and the International MBA.

An overview of each of these programs is provided below. For specific degree requirements in each program, please contact the program office or director.

Executive Master of Business Administration (EMBA)

The Executive Master of Business Administration (EMBA) degree program is designed for working business professionals at the director level and above. FIU's Executive MBA delivers unique graduate level experiences that broaden executives' horizons and prepares them for new and expanding responsibilities.

The curriculum includes 4 eight-hour interdisciplinary courses that synthesize concepts and techniques from a variety of business disciplines to address a variety of complex and ambiguous issues senior manages typically face. It is a rigorous hands-on program where we focus on:

- application rather than theory,
- learning by doing rather than lecturing, and
- critical thinking in addition to quantitative analysis.

It is a distinctive program for a select number of qualified students who see their "body-of-work" as unfinished.

Program participants earn their MBA degree without interrupting their careers. Structured so that all requirements can be completed in twenty-two months, the program is offered on Saturdays at the FIU complex at 1101 Brickell in the heart of Miami's financial district. The EMBA program incorporates these unique features:

- An interdisciplinary curriculum specifically designed for executives and strategic decision-making
- Leadership & Innovation Project teams focus curriculum in each semester on application not theory
- Class meetings every other Saturday focus on discussions not lectures
- Small class of 25 +/- of nominated candidates provides opportunity to learn from a diverse and highly select group of peers
- Access to a professional executive coach
- Interact with top notch experienced faculty and international business executives
- International Research that includes a one-week residency abroad
- Professional staff provides logistical support that caters to the needs of participating executives

Admission Requirements

The Executive Master of Business Administration (EMBA) program considers students' work experience, industry knowledge and management skills as strengths in a candidate's qualifying portfolio. Candidate's professional maturity and managerial experience are highly considered in the admission selection process because the EMBA program at FIU fosters students' ability to contribute real-world experiences to add value to overall student learning in this competitive degree program.

To be eligible for admission to the EMBA program in the Chapman Graduate School of Business, applicants must meet the following qualifications:

1. Hold a bachelor degree or equivalent from either a U.S. accredited college or university or the equivalent degree from institutions outside the U.S. in addition to being in good standing with all previously attended colleges and universities; and
2. Have eight years of demonstrated professional full time work experience, with five of those in management.

Additional Requirements:

1. Resume describing current and past responsibilities, leadership and management experience highlights and, if any, demonstrated accomplishments in the application of quantitative and analytical skills;
2. Statement of purpose (short essay) describing how the program fits within your personal and career goals. The essay will be evaluated for applicants' effective and succinct writing skills;
3. Two letters of recommendation from employers and/or faculty who can attest to applicants' motivation to succeed in EMBA program at FIU; and
4. International graduate student applicants whose studies were completed outside of the U.S. must demonstrate proficiency of the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version or 213 on the computer based version of the test of English as a Foreign Language) or 6.5 overall on the International English Language Testing System (IETLS).

Applicants are encouraged to provide any additional documentation to strengthen their application portfolio. Examples of documentation include: Master's degree in any discipline other than an MBA, law degree, professional certifications (i.e. CPA, CFA, SHRM, etc.), GMAT or GRE scores, specialized leadership experience or training documentation that the applicant is part of a "fast track" or "high potential" management group at their organization, or any other similar evidence.

Candidates with diverse backgrounds are encouraged to apply. While all applications will be evaluated based on a full review of the application portfolio, we desire students with an undergraduate upper division grade point average (GPA) of 3.0.

An interview, by invitation only, may be required prior to the final selection.

Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission.

For additional information about this value-added program, call the EMBA office at (305) 779-7896 or email **emba@fiu.edu**.

Degree Requirements

In order to complete the EMBA, students must successfully complete:

- 1-week residency at beginning of program, international week residency in the middle of the program, and 1 week residency at end of program,
- 4 eight-credit-hour interdisciplinary courses,
- 4 one-credit-hour leadership courses,
- 3 three-credit-hour experiential courses (International research, Innovation Projects, Corporate Simulation),
- Total of 45 credit hours

The following courses and sequence are required for the EMBA:

Semester I		
GEB 6368	Navigating in a Globalizing World	8
MAN 6891	Leadership Development Seminar I	1
Semester II		
GEB 6529	Creating Economic and Social Value	8
MAN 6892	Leadership Development Seminar II	1
Semester III		
GEB 6528	Organizational Processes that Deliver Economic and Social Value	8
MAN 6893	Leadership Development Seminar III	1
Semester IV		
GEB 6896	Strategy Development and Implementation	8
MAN 6898	Leadership Development Seminar IV	1
Semester V		
MAN 6675	Special Topics in International Business	3
MAN 6057	Managing Innovation	3
MAR 6816	Corporate Simulation	3

Residencies

- Residency One – August of first year: Teamwork, Curriculum overview, Leadership, Personal Development, and Innovation Project brainstorming
- Residency Two – Fall Semester of second year: International Research Course and Company visits. Students choose to attend one of the 7-day Business Innovation in a Global Economy programs, hosted by the 9 universities around the world who are members of our EMBA Consortium on Business Innovation
- Residency Three – last week in April of last semester intensive interactive corporate simulation

Professional Master of Business Administration (PMBA)

Designed for working professionals, the Professional MBA program offers a fast-paced, intense program in which you can network with your peers and learn from each other in a dynamic environment.

Admission Requirements

The Professional Master of Business Administration (PMBA) program considers students' work experience, industry knowledge, management skills and undergraduate education as strengths in candidate's qualifying portfolio. Candidate's professional maturity, and managerial experience are highly considered in the admission selection process because the PMBA program at FIU fosters students' ability to contribute real-world experiences to add value to the overall student learning in this competitive degree program.

To be eligible for admission to the PMBA program in the Chapman Graduate School of Business, applicants must:

1. Hold a bachelor degree or equivalent from either a U.S. accredited college or university or the equivalent degree from institutions outside the U.S.; Students coming from programs where the primary degree is at the master level or higher will meet this requirement;
2. Show high promise of success in graduate studies as determined by the faculty based upon academic performance, work experience or a combination of academic and work experience.
3. Evidence a minimum score of 500 on the Graduate Management Admission Test (GMAT) or similar Graduate Record Exam (GRE) score. A GMAT waiver at the discretion of the academic director is available for:
    A. Applicants with two years of demonstrative work experience and success in completing other academic programs;
    B. Applicants who have an undergraduate business or related degree (economics, hospitality management, etc.) with an upper division grade point average (GPA) of 3.25;
    C. Applicants without a business or related degree having an upper division GPA of 3.35;
    D. If the applicant has already completed a graduate degree from an accredited university with a minimum grade point average (GPA) of 3.0, or is entering a business master's program under a special agreement for admissions with specific foreign and domestic universities;
4. Should, in general, have a minimum upper division grade point average (GPA) of 3.0. An applicant with substantial work experience and industry/work related recommendations will be evaluated based on academic qualifications, work experience, and performance;
5. Provide a resume describing current and past responsibilities, leadership and management experience highlights and, if any, demonstrated accomplishments in the application of quantitative and analytical skills;
6. Provide a statement of purpose (short essay) describing how the program fits within your personal and career goals. The essay will be evaluated for applicants' effective and succinct writing skills;
7. When the applicant's studies were completed in non-English speaking countries, demonstrate proficiency of the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper based version or 213 on the computer based version of the test of English as a Foreign Language) or 6.5 overall on the International English Language Testing System (IETLS) or by other university level English proficiency standards as they are approved.

Applicants are encouraged to provide any additional documentation to strengthen their application portfolio. Examples of documentation include: master degree in any discipline other than an MBA, law degree, professional certifications (i.e. CPA, CFA, SHRM, etc.), GMAT or GRE scores, specialized leadership experience or training documentation that the applicant is part of a "fast track" or "high potential" management group at their organization, or any other similar evidence including letters of reference and recommendations.

Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission.

For additional information about this value-added program, please contact the PMBA office at (305) 779-7897 or email pmba@fiu.edu

Degree Requirements

In order to complete the Professional Master in Business Administration (PMBA), students must successfully complete a total of 42 credit hours, 27 credit hours of core and 15 credit hours of electives and three professional development seminars.

The following courses are required:

ACG 6026	Accounting for Managers
ACG 6175	Financial Reporting & Analysis
FIN 6406	Corporate Finance
FIN 6446	Competitive Strategy
MAN 6245	Organizational Behavior
MAN 6726	Strategic Management
ISM 6021	Management of Information Systems
MAR 6805	Marketing Management in the Global Environment
QMB 6357	Business Statistical Analysis

Elective (can be in specialization area)
Elective (can be in specialization area)
Elective (in legal, regulatory or related Issues)
Elective (in an international business area)
Elective (in analytical and quantitative analysis)

Professional development seminars I, II, and III

Each of the seminars will focus on soft skills such as leadership, team building, oral presentation, writing skills and career exploration.

Seminars will be mandatory, non-credit.

The MBA academic director in consultation with the Associate Dean for the Chapman Graduate School of Business can substitute up to two required courses.

The MBA academic director can waive a professional development seminar.

Professional Master of Business Administration: Healthcare Management Track (PMBA/HM)

Designed for the early to mid-level working professional with a minimum of two years professional work experience, the Professional MBA in Healthcare Management program offers a fast-paced, intense program in which you gain the necessary skills for a management career in various health services organizations.

The PMBA program incorporates these unique features:

- Complete the MBA in approximately eighteen months;
- Study in convenient locations: FIU Downtown on Brickell, FIU at I-75, or online;
- Study with, learn from and network with a diverse group of peers in lock-step program;
- Strengthen critical thinking, leadership, team building and interpersonal skills;
- Enjoy a high level of customer service, catering to the needs of participating professionals;
- Have access to personalized career services;

Admission Requirements

To be eligible for admission to the Professional MBA Program in the Chapman Graduate School, students must:

1. Hold a Bachelor's degree from an accredited college or university;
2. Have a minimum upper division grade point average (GPA) of 3.0;
3. Demonstrate at least two years of professional work experience;
4. Graduate student applicants whose studies were completed outside of the US must demonstrate proficiency of the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version) or 6.5 overall on the International English Language Testing System (IETLS);
5. Provide two letters of recommendation from professional contacts;
6. Provide a personal statement on the motivation to attend the program, including personal and career goals;
7. Be in good standing with all previously-attended colleges and universities.

Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission. For more information about this program, please contact the Healthcare MBA office at (305) 779-7900 or visit **http://healthcaremba.fiu.edu**.

Degree Requirements

Students must successfully complete 14, three-credit hour courses for a total of 42 credit hours and three non-credit Professional Development Seminars.

The following courses are required for the PMBA/HM:

BUL 6810	Legal Environment of Business
MAN 6095	Management of Healthcare Organizations in the 21st Century
QMB 6616	Business Process and Operational Analysis
MAN 6245	Organizational Behavior
MAN 6098	Management of Healthcare Finance and Reimbursement
MAR 6805	Marketing Management in the Global Environment
ISM 6021	Management of Information Systems
ACG 6026	Accounting for Managers
BUL 6605	Healthcare Fraud and Abuse Law and Regulation

MAN 6726	Strategic Management
FIN 6406	Corporate Finance
MAN 6097	Managerial Decision-Making in Health Economics
MAN 6974	Master's Project in Management
ACG 6175	Financial Reporting & Analysis

Professional Development Seminars I, II, and III

Each of the Professional Development Seminars will focus on soft skills such as leadership, team building, oral presentation, writing skills, health analytics, and career development. There will be team-building activities which include classroom exercises in group decision-making and problem-solving. Students will also work with a presentation and writing skills coach to improve the communication and writing skills that are critical to managerial success.

Seminars will be mandatory, non-credit.

Professional Development Seminars I, II, III

Team Building, Writing Skills, Presentation Skills, Oral Communications, Excel and Statistics Fundamentals, Accounting Boot Camp, Quantitative Methods, Leadership, Lean Enterprise Training and Certification

Flexible Master of Business Administration (Flex-MBA)

Designed for working professionals, the Flex MBA program offers a fast-paced, intense program in which you can network with your peers and learn from each other in a dynamic environment. Core competencies include problem solving on a local and global level; building teamwork and collaboration; analyzing balance sheets and budgeting; and identifying ethical problems.

Admission Requirements

The Flex Master of Business Administration (Flex-MBA) program considers students' work experience, industry knowledge, management skills and undergraduate education as strengths in candidate's qualifying portfolio. Candidate's professional maturity, and managerial experience are highly considered in the admission selection process because the Flex-MBA program at FIU fosters students' ability to contribute real-world experiences to add value to the overall student learning in this competitive degree program.

To be eligible for admission to the Flex-MBA program in the Chapman Graduate School of Business, applicants must:

1. Hold a bachelor degree or equivalent from either a U.S. accredited college or university or the equivalent degree from institutions outside the U.S.; Students coming from programs where the primary degree is at the master level or higher will meet this requirement.
2. Show high promise of success in graduate studies as determined by the faculty based upon academic performance, work experience or a combination of academic and work experience.
3. Evidence a minimum score of 500 on the Graduate Management Admission Test (GMAT) or similar Graduate Record Exam (GRE) score. A GMAT waiver at the discretion of the academic director is available for:
    a. Applicants with two years of demonstrative work experience and success in completing other academic programs;
    b. Applicants who have an undergraduate business or related degree (economics, hospitality management, etc.) with an upper division grade point average (GPA) of 3.25, or higher;
    c. Applicants without a business or related degree having an upper division grade GPA of 3.35, or higher;
    d. If the applicant has already completed a graduate degree from an accredited university with a minimum grade point average (GPA) of 3.0, or is entering a business master's program under a special agreement for admissions with specific foreign and domestic universities;
4. Should, in general, have a minimum upper division grade point average (GPA) of 3.0. An applicant with substantial work experience and industry/work related recommendations will be evaluated based on academic qualifications, work experience, and performance;
5. Provide a resume describing current and past responsibilities, leadership and management experience highlights and, if any, demonstrated accomplishments in the application of quantitative and analytical skills;
6. Provide a statement of purpose (short essay) describing how the program fits within your personal and career goals. The essay will be evaluated for applicants' effective and succinct writing skills;
7. When the applicant's studies were completed in non-English speaking countries, demonstrate proficiency of the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version or 213 on the computer based version of the test of English as a Foreign Language) or 6.5 overall on the International English Language Testing System (IETLS) or other university level English proficiency standards as they are approved;

Applicants are encouraged to provide any additional documentation to strengthen their application portfolio. Examples of documentation include: master degree in any discipline other than an MBA, law degree, professional certifications (i.e. CPA, CFA, SHRM, etc.), GMAT or GRE scores, specialized leadership experience or training documentation that the applicant is part of a "fast track" or "high potential" management group at their organization, or any other similar evidence including letters of reference and recommendations.

Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission.

For additional information about this value-added program, call the Flex-MBA office at (305) 779-7897 or email **pmba@fiu.edu**.

Degree Requirements

In order to complete the Flex-MBA, students must successfully complete a total of 42 credit hours, 27 credit hours of core and 15 credit hours of electives and three professional development seminars.

The following courses are required:

ACG 6026	Accounting for Managers
ACG 6175	Financial Reporting & Analysis
FIN 6406	Corporate Finance
FIN 6446	Competitive Strategy
MAN 6245	Organizational Behavior
MAN 6726	Strategic Management
ISM 6021	Management of Information Systems
MAR 6805	Marketing Management in the Global Environment
QMB 6357	Business Statistical Analysis

Elective (can be in specialization area)
Elective (can be in specialization area)
Elective (in legal, regulatory or related Issues)
Elective (in an international business area)
Elective (in analytical and quantitative analysis)

Professional development seminars I, II, and III

Each of the seminars will focus on soft skills such as leadership, team building, oral presentation, writing skills and career exploration.

Seminars will be mandatory, non-credit.

The MBA academic director in consultation with the Associate Dean for the Chapman Graduate School of Business can substitute up to two required courses.

The MBA academic director can waive a professional development seminar.

International Master of Business Administration (IMBA)

The IMBA (International MBA) degree program features an MBA curriculum with an international business focus. This value-added program has been especially designed for students and professionals interested in pursuing a career in international business. For students from outside the U.S., it represents an opportunity for them to prepare for executive positions in the U.S. as well as in other parts of the world. For students in the U.S. who would like to pursue business leadership in international businesses, it provides an integrated perspective of international business issues and the knowledge they need to succeed in a rapidly evolving, global economy.

Given the Chapman School's Miami location and expertise in Latin American and Caribbean business, the program is particularly valuable for those who want to secure executive positions in the Americas.

The IMBA program incorporates these unique features:

- An MBA curriculum that can be completed in 12 months;
- Day-time classes;
- Global and multicultural perspective throughout;
- Have access to personalized career services;
- Opportunity to participate in study abroad programs and attend;
- Professional development seminars focused on leadership, team-building skills, oral and written presentation skills, and career preparation.

Admission Requirements

To be eligible for admission to the International MBA Program in the Chapman Graduate School, students must:

1. Hold a bachelor degree or equivalent from either a U.S. accredited college or university or the equivalent degree from institutions outside the U.S.; Students coming from programs where the primary degree is at the master level or higher will meet this requirement;
2. Show high promise of success in graduate studies as determined by the faculty based upon academic performance, work experience or a combination of academic and work experience.
3. Evidence a minimum score of 500 on the Graduate Management Admission Test (GMAT) or similar Graduate Record Exam (GRE) score. A GMAT waiver at the discretion of the academic director is available for:
    a) Applicants with two years of demonstrative work experience and success in completing other academic programs;
    b) Applicants who have an undergraduate business or related degree (economics, hospitality management, etc.) with an upper division grade point average (GPA) of 3.25, or higher;
    c) Applicants without a business or related degree having an upper division grade GPA of 3.35, or higher;
    d) If the applicant has already completed a graduate degree from an accredited university with a minimum grade point average (GPA) of 3.0, or is entering a business master's program under a special agreement for admissions with specific foreign and domestic universities;
4. Should, in general, have a minimum upper division grade point average (GPA) of 3.0. An applicant with substantial work experience and industry/work related recommendations will be evaluated based on academic qualifications, work experience, and performance;
5. Provide a resume describing current and past responsibilities, leadership and management experience highlights and, if any, demonstrated accomplishments in the application of quantitative and analytical skills;
6. Provide a statement of purpose (short essay) describing how the program fits within your personal and career goals. The essay will be evaluated for applicants' effective and succinct writing skills;
7. When the applicant's studies were completed in non-English speaking countries, demonstrate proficiency of the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper based version or 213 on the computer based version of the test of English as a Foreign Language) or 6.5 overall on the International English Language Testing System (IETLS) or by other university level English proficiency standards as they are approved.

Applicants are encouraged to provide any additional documentation to strengthen their application portfolio. Examples of documentation include: master degree in any discipline other than an MBA, law degree, professional certifications (i.e. CPA, CFA, SHRM, etc.), GMAT or GRE

scores, specialized leadership experience or training documentation that the applicant is part of a "fast track" or "high potential" management group at their organization, or any other similar evidence including letters of reference and recommendations.

Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission.

Students may also be eligible to pursue joint degree programs with the Master of Science in Finance (MBA/MSF), the Master of Science in Information Systems (MBA/MSIS), the Master of International Business (MBA/MIB), the Master of Science in Human Resource Management (MBA/MSHRM), the Master of Science in International Real Estate (MBA/MSIRE), the College of Law (MBA/JD), and the Master of Arts in Latin American and Caribbean Studies (MBA/MALACS).

For more detailed information about the IMBA program, please contact the program manager at (305) 348-6880 or by email **imba@fiu.edu**.

Degree Requirements

In order to complete the IMBA, students must successfully complete 45 credit hours of course work; including 42 credit hours of core course work; and three-credit hours of elective course work. In addition, Professional Development Seminars are required.

The following courses are required for the IMBA:

Core

QMB 6357	Business Statistical Analysis
ACG 6026	Accounting for Managers
MAN 6608	International Business
MAN 6830	Organizational Information Systems
MAN 6245	Organizational Behavior
FIN 6406	Corporate Finance
MAN 6974	Master's Project in Management
MAN 6501	Operations Management
MAR 6805	Marketing Management in the Global Environment
BUL 6810	Legal Environment of Business
ACG 6175	Financial Reporting & Analysis
FIN 6644	Global Financial Strategy
MAN 6726	Strategic Management
MAR 6816	Corporate Simulation
IMBA Elective	

Elective Options (Choose one)

- MAN 6930 Master's Seminar in
- Management – Study Abroad
- GEB 6941C Graduate Internship
- Any course offered in the Summer term in any of the business disciplines.

Each of the Professional Development Seminars will focus on soft skills such as leadership, team building, oral presentation, writing skills and career exploration. There will be team-building activities which include classroom exercises in group decision-making and problem-solving. Challenging outdoor exercises will be included to help participants build the skills they will need to work together in the program and to succeed in today's team-based organizations. Students will also work with a presentation and writing skills coach to improve the communication and writing skills that are critical to managerial success.

Professional Development Seminars will be mandatory, non-credit.

Professional Development Seminars include topics such as:

- Team Building
- Career Development
- Presentation Skills
- Writing Skills
- Leadership

The IMBA and MBA academic directors in consultation with the Associate Dean for the Chapman Graduate School of Business can substitute up to six credit hours of required courses.

The IMBA academic director can waive a professional development seminar.

Master of Business Administration in Business Analytics

Graduate business students opting to earn a Master of Business Administration in Business Analytics (MBA-BA) will gain a solid foundation in the application of statistical methods, techniques, and tools to large data sets. The major provides students with the background needed to applying statistical methods and techniques through use of decision support systems (DSS), expert systems (ES), business intelligence (BI) reporting tools, and business analytics (BA) data mining tools. Depending on background and experience, graduates will be prepared for a wide range of positions including entry-level and management business analytics and reporting positions.

Admission Requirements

The Master of Business Administration in Business Analytics (MBABA) program considers students' work experience, industry knowledge, management skills and undergraduate education as strengths in the candidates qualifying portfolio. Candidate's professional maturity and managerial experience are highly considered in the admission selection process because the MBA-BA program at FIU fosters students' ability to contribute real-world experiences to add value to the overall student learning in this competitive degree program.

To be eligible for admission to the MBA-BA program in the Chapman Graduate School of Business, applicants must:

1. Hold a bachelor degree or equivalent from either a U.S. accredited college or university or the equivalent degree from institutions outside the U.S.; Students coming from programs where the primary degree is at the master level or higher will meet this requirement;
2. Show high promise of success in graduate studies as determined by the faculty based upon academic performance, work experience or a combination of academic and work experience.
3. Evidence a minimum score of 500 on the Graduate Management Admission Test (GMAT) or similar Graduate Record Exam (GRE) score. A GMAT waiver at the discretion of the academic director is available for:
    A. Applicants with two years of demonstrative work experience and success in completing other academic programs;

B. Applicants who have an undergraduate business or related degree (economics, hospitality management, etc.) with an upper division grade point average (GPA) of 3.25;
C. Applicants without a business or related degree having an upper division GPA of 3.35;
D. If the applicant has already completed a graduate degree from an accredited university with a minimum grade point average (GPA) of 3.0, or is entering a business master's program under a special agreement for admissions with specific foreign and domestic universities;

4. Should, in general, have a minimum upper division grade point average (GPA) of 3.0. An applicant with substantial work experience and industry/work related recommendations will be evaluated based on academic qualifications, work experience, and performance;
5. Provide a resume describing current and past responsibilities, leadership and management experience highlights and, if any, demonstrated accomplishments in the application of quantitative and analytical skills;
6. Provide a statement of purpose (short essay) describing how the program fits within your personal and career goals. The essay will be evaluated for applicants' effective and succinct writing skills;
7. When the applicant's studies were completed in non-English speaking countries, demonstrate proficiency of the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper based version or 213 on the computer based version of the test of English as a Foreign Language) or 6.5 overall on the International English Language Testing System (IETLS) or by other university level English proficiency standards as they are approved.

Applicants are encouraged to provide any additional documentation to strengthen their application portfolio. Examples of documentation include: master degree in any discipline other than an MBA, law degree, professional certifications (i.e. CPA, CFA, SHRM, etc.), GMAT or GRE scores, specialized leadership experience or training documentation that the applicant is part of a "fast track" or "high potential" management group at their organization, or any other similar evidence including letters of reference and recommendations.
Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission.
For additional information about this value-added program, please contact the MBA-BA office at (305) 779-7897 or email mbaba@fiu.edu

Degree Requirements

Students must successfully complete 15, three-credit hour courses for a total of 45 credit hours, inclusive of the MBA Core*, and three noncredit Professional Development Seminars.
Professional development seminars I, II, and III Each of the seminars will focus on soft skills such as leadership, team building, oral presentation, writing skills and career exploration.
Seminars will be mandatory, non-credit.

*ACG 6026	Accounting for Managers	3
*ACG 6175	Financial Reporting & Analysis	3
*FIN 6406	Corporate Finance	3
ISM 6205	Database Management	3
ISM 6208	Data Warehousing	3
ISM 6128	Business Process Design	3
ISM 6136	Business Analytics Applications	3
ISM 6427	Artificial Intelligence Strategy	3
ISM 6316	Project Management	3
ISM 6404	Business Data Visualization and Reporting	3
ISM 6217	Data Management, Strategy, and Governance	3
*MAN 6245	Organizational Behavior	3
*MAR 6805	Marketing Management in the Global Environment	3
*QMB 6357	Business Statistical Analysis	3
QMB 6603	Analyzing and Leveraging Transactional Data	3

*MBA Core

Global MBA Programs

The Chapman Graduate School also offers the Professional MBA in Jamaica and Panama. Curriculum and admission requirements are identical to those of the PMBA. For more information about these programs, please contact the Program Manager at (305) 348-3468.

Other Master's Program

The Chapman School offers a variety of Master of Science and professional master's degree programs: Master of Accounting, Executive Master of Science in Taxation, Master of Science in Finance, Master of Science in International Real Estate, Master of Science in Information Systems, Master of Science in Human Resource Management, Master of Science in Marketing, and Master of Science in Logistics and Supply Chain Management. These programs are described in the respective departmental pages of this catalog or at: **http://business.fiu.edu**.

Master of Accounting/Master of Business Administration Joint Degree Pathway

The School of Accounting and the IMBA program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University offer a joint degree pathway culminating in both a Master of Accounting (MACC) and a Master of Business Administration. Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree program are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree pathway.

2. Applications for a joint degree will not be accepted from candidates who have already completed either degree.
3. Domestic undergraduate non-accounting degree holders; and international degree holders, regardless of major, will take the following courses, for a saving of 15 credits:
   - 34 credits at the 6000-level from the IMBA
   - 15 credits at the 5000-level from the MACC
   - 30 credits at the 6000-level from the MACC
4. Domestic undergraduate accounting degree holders from AACSB accredited universities, may petition to waive the 5000-level MACC courses, for a saving of an additional 15 credits.
5. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. Directors of the MACC and MBA degree programs may adjust these exact course requirements as a result of future changes to the MACC or MBA curriculums.
6. Joint degree candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate.

Master of Business Administration/ Master of Arts in Latin American and Caribbean Studies Joint Degree Pathway

The Alvah H. Chapman Jr. Graduate School of Business and the Latin American and Caribbean Center at Florida International University have approved a joint degree pathway culminating in both a Master of Business Administration degree (MBA), awarded by the College of Business, and a Master of Arts in Latin American and Caribbean Studies degree (MALACS), administered by the Latin American and Caribbean Center (LACC) for the College of Arts and Sciences. Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. Essential criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program.
2. Applications for a joint degree will not be accepted from candidates who have already completed either degree. Business Administration students must apply and be admitted by no later than the semester in which they are expected to complete 18 pre-core and core credit hours in the MBA program. MALACS students must apply and be admitted by no later than the semester in which they are expected to complete 18 credit hours in that program.
3. Candidates must satisfy all requirements for each degree. Twelve (12) credit hours from the MBA curriculum pre-core and core requirements may count toward the MALACS degree to satisfy MALACS concentration requirements. Nine (9) credit hours from the MALACS course offerings may be applied to satisfy MBA elective requirements. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MALACS courses transferred to meet MBA elective credit must be 6000 or 7000 level courses approved by the University Curriculum Committee and be from the approved MALACS course list in the social science disciplines of anthropology, economics, environmental studies, history, international relations, Latin American and Caribbean Studies (interdisciplinary), political science, or sociology. The Dean of the Chapman Graduate School of Business (or his/her delegate) has final authority on the approval of which courses may be transferred to meet MBA elective requirements.
4. Based on existing MBA and MALACS curriculums, specifics on the transfer of credits include the following. Participants in the joint degree pathway will obtain a MALACS concentration in International Business. Four MBA pre-core or core courses (12 credits) may be transferred to meet the student's MALACS concentration requirements. Students who have not taken MAN 6910 Research Methods in Management as an MBA elective course will be required to take a MALACS-approved social science research methods course as one of their first MALACS courses. With the 12 credit transfer from the MBA program, to obtain the MALACS degree, the student will be required to take the MALACS gateway interdisciplinary course LAS 6003 Survey of Latin America and the Caribbean (3 credits), the MALACS required data analysis course LAS 6930 Latin American and Caribbean Data Analysis (3 credits), one additional course in the MALACS concentration of International Business (the social science research methods course may meet this requirement) (3 credits), three additional courses in at least two MALACS concentrations other than International Business (9 credits), and a MALACS graduation exit option (6 credits), for a total of 24 MALACS credits. Candidates for the MALACS degree must also meet MALACS language proficiency requirements. With the 9 credit transfer from the MALACS program, to obtain the MBA degree, the student will be required to take all MBA pre-core, core, and professional development seminar courses, plus one MBA elective, for a total of 46 MBA credits. Directors of the MBA and MALACS degree programs may adjust the exact course numbers and titles required for degree completion as a result of future changes to the MBA or MALACS curriculums.
5. If the joint degree candidate chooses the thesis exit option for the MALACS degree, the thesis must address a Latin American or Caribbean business or management issue. The thesis committee must be chaired by a College of Arts and Sciences faculty member. Furthermore, the thesis committee must have at least one member from both the College of Business and College of Arts and Sciences. Thesis committee co-chairs with faculty members from both colleges are recommended. Candidates selecting a MALACS exit option other than the thesis must follow the procedures established by the MALACS program. MALACS will establish the necessary thesis, internship, independent study, or directed research course numbers to allow Graduate School of Business faculty to participate in MALACS exit options for joint degree students.

6. Candidates accepted to the joint degree pathway may begin their studies in either program first. All candidates must register for classes during the regular registration period for the respective program. Additionally, joint degree pathway students must register for a course or courses in their second degree no later than the semester commencing the second half of their first degree program.
7. Joint degree candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree candidate. Subject to prior approval, graduate students are normally allowed six (6) credit hours from graduate level courses offered by other units of the University as counting toward single degrees.
8. Candidates in the joint degree pathway will be eligible for the graduate teaching assistantships, graduate research assistantships, and scholarships in the Chapman Graduate School of Business and LACC on the same basis as other graduate students, subject to the guidelines and restrictions set by either program.
9. Future changes to the joint MBA/MALACS degree pathway must be endorsed by the College of Business Faculty Curriculum Committee and Associate Dean of the Chapman Graduate School of Business; the College of Arts and Sciences Faculty Curriculum Committee and Dean of the College of Arts and Sciences; and approved by the University Curriculum Committee, Graduate Council, the Faculty Senate, Dean of the University Graduate School, and the Provost.

For additional information, contact the Evening MBA office at (305) 348-3256 or the Latin American and Caribbean Center (LACC) at (305) 348-2894.

Master of Business Administration/Juris Doctor Joint Degree Pathway

Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. Essential criteria relating to the joint degree pathway are as follows:

1. Candidates for the pathway must meet the entrance requirements for and be accepted by both Colleges. The college of Business may accept LSAT scores in lieu of GMAT or GRE scores for candidates from the College of Law as part of the admission requirement in the MBA. Both Colleges must be informed by the student at the time of application to the second program that the student intends to pursue the joint degree.
2. The joint degree pathway is not open to students who have already earned one degree.
3. For law students, enrollment in the MBA program is required no later than the completion of 63 credit hours in the JD program. For MBA students, enrollment in the JD program is required no later than the third semester after beginning the MBA program. For purposes of this paragraph, a summer session is counted as half a semester.
4. A student must satisfy the curriculum requirements for each degree before either degree is awarded. The College of Business will allow 12 credit hours of upper level business and commercial law courses to be credited toward both the M.B.A. and J.D. degrees. These 12 credit hours of law classes will be in lieu of the Legal Environment of Business course (3 credit hours) and three of the elective courses (totaling 9 credit hours) required for the M.B.A. degree. A student may obtain a concentration in the M.B.A. program in accordance with the College of Business curriculum requirements for concentrations. Reciprocally, law students may receive 9 hours of credit toward the satisfaction of the J.D. degree for courses taken in the M.B.A. curriculum upon completion of the M.B.A. degree curriculum with a grade point average of 3.0 or higher.
5. A student enrolled in the joint degree pathway may begin the student's studies in either College, but full-time law students must take the first two semesters of law study consecutively and part-time law students must take the first three semesters of law study consecutively. Students admitted to one College but electing to begin study in the other College under the joint degree pathway may enter the second College thereafter without once again qualifying for admission so long as they have notified the second College before the end of the first week of the first semester in the second College and are in good academic standing when studies commence in the second College.
6. A student enrolled in the joint degree pathway will not receive either degree until the student has satisfied all of the requirements for both degrees, or until the student has satisfied the requirements of one of the degrees as if the student had not been a joint degree pathway candidate.
7. Students in the joint degree pathway will be eligible for the graduate teaching assistantships and research assistantships in the College of Business on the same basis as other MBA students, subject to the guidelines and restrictions set by the College of Business.

For additional information, contact the Chapman Graduate School of Business at (305) 348-0148 or the Law School Admissions Office at (305) 348-8006.

Master of International Business/Master of Business Administration Joint Degree Pathway

The MIB and MBA programs in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University offer a joint degree pathway culminating in both a Master of Business Administration degree (MBA), and a Master of International Business (MIB). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option. Candidates deciding to pursue the joint degree option

after having been admitted to one program will indicate this intention only on their second application.

2. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree. MBA or MIB students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. The two degrees will have four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MIB courses transferred to meet MBA elective credit and vice versa must be 6000 level courses approved by the University Curriculum Committee. Directors of the MBA and MIB degree programs may adjust these exact course requirements as a result of future changes to the MBA or MIB curriculums.

3.1 Joint Flex MBA/MIB Degree Pathway

3.1.1 To obtain MIB degree, Flex MBA students must complete the following courses for a total of 63 credit hours as follows:

In the MIB program (36 credits hours):

ACG 6026	International Accounting	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3

Professional Development Seminars (PDS)

In the MIB program (24 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

3.2.2. To obtain the International MBA (IMBA), MSIS degree students must complete a total of 69 credits as follows:

In the MIB program (36 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6606	Fundamentals of International Business	3
ACG 6026	Accounting for Managers	3
BUL 6850	International Business Law	3
FIN 6644	Global Financial Strategy	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

In the IMBA program (33 credit hours):

ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6703	Colloquium in Managing Organizational Ethics	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS) I, II, III		2

In the MIB program (24 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

3.2.2. To obtain the International MBA (IMBA), MSIS degree students must complete a total of 69 credits as follows:

In the MIB program (36 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6606	Fundamentals of International Business	3
ACG 6026	Accounting for Managers	3
BUL 6850	International Business Law	3

FIN 6644	Global Financial Strategy	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

In the IMBA program (33 credit hours):

ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6703	Colloquium in Managing Organizational Ethics	1
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS) I, II, III		2

3.3. Joint Professional MBA/MIB Degree Pathway

3.3.1. To obtain the MIB degree. Professional MBA (PMBA) students must complete the following courses for a total of 66 credit hours as follows:

In the PMBA program *(*42 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financing Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
FIN 6644	Global Financial Strategy	3
MAN 6608	International Business	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

In the MIB program (24 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
MAN 6606	Fundamentals of International Business	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

3.3.2. To obtain the Professional MBA (PMBA). MIB degree students must complete a total of 66 credits as follows:

In the MIB program (36 credit hours):

In the MIB program (36 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6606	Fundamentals of International Business	3
ACG 6026	Accounting for Managers	3
BUL 6850	International Business Law	3
FIN 6644	Global Financial Strategy	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

In the PMBA program *(*30 credit hours):

ACG 6175	Financing Reporting & Analysis	3
FIN 6406	Corporate Finance	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

Notes:

[1] Requirements for the CMBA depend on track chosen. If a candidate has elected the option of a specialization, the number of credit hours required and shared for the Flex will be used. Otherwise, the number of credit hours required and shared for the PMBA will be used.

[2] The Executive MBA and Professional MBA in Healthcare Management programs are not included as an option for the joint degree.

1. Joint degree candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree candidate.

For additional information, contact the MIB office at (305) 348-3279 or the MBA office at (305) 348-0148.

Master of Science in Finance/Master of Business Administration Joint Degree Pathway

The Department of Finance and the MBA program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University have a joint degree pathway culminating in both a Master of Business Administration degree (MBA), and a Master of Science in Finance degree (Fast Track-MSF). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway uses existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option. Candidates deciding to pursue the joint degree option after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree. MBA or Fast Track-MSF students must apply and be admitted by no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. The two degrees will have four-five common courses. Courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSF courses transferred to meet MBA elective credit must be 6000 level courses approved by the University Curriculum Committee. Directors of the MBA and MSF degree programs may adjust these exact course requirements as a result of future changes to the MBA or MSF curriculums.

3.1 Joint Flex MBA/MSF Degree Pathway

To obtain MSF/MBA through the Flex program, students must complete the following courses for a total of 66 credit hours as follows:

In the Flex MBA program (33 credit hours):

ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3

Professional Development Seminars (PDS) I, II, III

In the MSF program (33 credit hours):

FIN 6456	Quantitative Methods in Financial Analysis	3
FIN 6515	Securities Analysis	3
FIN 6246	Financial Markets and Institutions	3
FIN 6537	Financial Futures and Fixed Income Investments	3
FIN 6487	Financial Risk Management	3
FIN 6644	Global Financial Strategy	3
FIN 6525	Portfolio Management	3
FIN 6465	Financial Planning and Statement Analysis	3

One of the following specialty tracks, in addition to the core MSF courses is required for the MSF degree:

Financial Management

FIN 6326	Commercial Banking	3
FIN 6436	Capital Budgeting and Long Term Resource Allocation	3
FIN 6425	Financial Management Policies	3

Investments

FIN 6425	Financial Management Policies	3
FIN 6489	Advanced Financial Risk Management	3
FIN 6517	Advanced Investments	3

International Banking

FIN 6326	Commercial Banking	3
FIN 6625	International Bank Management	3
FIN 6346	Credit Analysis	3

3.2. Joint International MBA/MSF Degree Pathway

To obtain MSF/MBA through the International program, students must complete the following courses for a total of 72 credit hours as follows:

In the IMBA program (42 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6444	Global Financial Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6608	International Business	3
MAN 6703	Colloquium in Managing Organizational Ethics	3
MAN 6830	Organizational Information Systems	3
MAN 6679	Master's Project in International Business	3
MAR 6805	Marketing Management in the Global Environment	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS) I, II, III		3

In the MSF program (30 credit hours):

FIN 6456	Quantitative Methods in Financial Analysis	3
FIN 6515	Securities Analysis	3
FIN 6246	Financial Markets and Institutions	3
FIN 6537	Financial Futures and Fixed Income Investments	3
FIN 6487	Financial Risk Management	3
FIN 6525	Portfolio Management	3
FIN 6465	Financial Planning and Statement Analysis	3

One of the following specialty tracks, in addition to the core MSF courses is required for the MSF degree:

Financial Management

FIN 6326	Commercial Banking	3
FIN 6436	Capital Budgeting and Long Term Resource Allocation	3
FIN 6425	Financial Management Policies	3

Investments

FIN 6425	Financial Management Policies	3
FIN 6489	Advanced Financial Risk Management	3
FIN 6517	Advanced Investments	3

International Banking

FIN 6326	Commercial Banking	3
FIN 6625	International Bank Management	3
FIN 6346	Credit Analysis	3

Notes:

[1] Requirements for the CMBA depend on track chosen. If a candidate has elected the option of a specialization, the number of credit hours required and shared for the Flex will be used. Otherwise, the option for a joint degree is not available with the MSF.

[2] The Executive MBA, Professional MBA, and Professional MBA in Healthcare Management programs are not included as an option for the joint degree.

[3]Joint degree candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree candidate.

For additional information, contact the MBA office at (305) 348-0148 or the Master of Science in Finance office at (305) 348-4198.

Master of Science in Information Systems/Master of Business Administration Joint Degree Pathway

The Master of Science in Information Systems and the MBA program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University are offering a joint degree pathway culminating in both a Master of Business Administration (MBA), and a Master of Science in Information Systems degree (MSIS). Under the joint degree pathway, a student can obtain both degrees in significantly less time then it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option. Candidates deciding to pursue the joint degree option after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree. MBA or MSIS students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. The two degrees will have two – four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSIS courses transferred to meet MBA elective credit must be 6000 level courses approved by the University Curriculum Committee. Directors of the MBA and MSIS degree programs may adjust these exact course requirements as a result of future changes to the MBA or MSIS curriculums.

3.1 Joint Flex MBA/MSIS Degree Pathway

To obtain MSIS/MBA through the Flex program, students must complete the following courses for a total of 66 credit hours as follows:

In the Flex MBA Program (33 credit hours)

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting and Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3

In the MSIS program (33 credit hours):

ISM 6106	Systems Analysis	3
ISM 6205	Database Management	3
ISM 6136	Business Analytics Applications	3
ISM 6307	Management of the Information Systems Function	3
ISM 6208	Data Warehousing	3
ISM 6128	Business Process Design	3
ISM 6328	Information Security Management	3
ISM 6338	Information Systems Strategy and Governance	3
ISM 6316	Project Management	3
	MIS Elective	3
	MIS Elective	3

Professional Development Seminars (PDS) I, II, lll

Two of the following courses (selected at the Department's discretion for each cohort) are required for the MSIS Degree:

ISM 6024	Managing Distributed Architecture	3
ISM 6156	Enterprise Information Systems	3
ISM 6251	Emerging Information Technologies	3
ISM 6489	E-business and Blockchain Applications	3
ISM 6427	Artificial Intelligence Strategy	3
ISM 6930	Special Topics in Management Information Systems	3
ISM 6942	MIS Internship	3

Optional Elective

ISM 6942	MIS Internship	1-3

3.2. Joint International MBA/MSIS Degree Pathwya

To obtain MS1S/MBA through the International program, students must complete the following courses for a total of

75 credit hours as follows:

In the IMBA program (42 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting and Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6644	Global Financial Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6608	International Business	3
MAN 6703	Colloquium in Managing Organizational Ethics	1
MAN 6679	Master's Project	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS) II, Ill		2

In the MSIS program (33 credit hours):

ISM 6106	Systems Analysis	3
ISM 6205	Database Management	3
ISM 6136	Business Analytics Applications	3
ISM 6307	Management of the Information Systems Function	3
ISM 6208	Data Warehousing	3
ISM 6128	Business Process Design	3
ISM 6328	Information Security Management	3
ISM 6338	Information Systems Strategy and Governance	3
ISM 6316	Project Management	3
	MIS Elective	3
	MIS Elective	3
Professional Development Seminars (PDS) I, II, Ill		

Two of the following courses (selected at the Department's discretion for each cohort) are required for the MSIS degree:

ISM 6024	Managing Distributed Architecture	3
ISM 6156	Enterprise Information Systems	3
ISM 6251	Emerging Information Technologies	3
ISM 6489	E-business and Blockchain Applications	3
ISM 6427	Artificial Intelligence Strategy	3
ISM 6930	Special Topics in Management Information Systems	3
ISM 6942	MIS Internship	3

Optional Elective

ISM 6942	MIS Internship	1–3

3.3. Joint Professional MBA/MSIS Degree Pathway

To obtain MSIS/MBA through the Professional program students must complete the following courses for a total of 72 credit hours as follows:

In the PMBA program (39 credit hours):

ACG 6026	Accounting for Managers	3
ACG6175	Financial Reporting and Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
FIN 6644	Global Financial Strategy	3
MAN 6608	International Business	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

In the MSIS program (33 credit hours):

ISM 6106	Systems Analysis	3
ISM 6205	Database Management	3
ISM 6136	Business Analytics Applications	3
ISM 6307	Management of the Information Systems Function	3
ISM 6208	Data Warehousing	3
ISM 6128	Business Process Design	3
ISM 6328	Information Security Management	3
ISM 6338	Information Systems Strategy and Governance	3
ISM 6316	Project Management	3
	MIS Elective	3
	MIS Elective	3
Professional Development Seminars (PDS) I, II, Ill		

Two of the following courses (selected at the Department's discretion for each cohort) are required for the MSIS degree:

ISM 6024	Managing Distributed Architecture	3
ISM 6156	Enterprise Information Systems	3
ISM 6251	Emerging Information Technologies	3
ISM 6489	E-business and Blockchain Applications	3
ISM 6427	Artificial Intelligence Strategy	3
ISM 6930	Special Topics in Management Information Systems	3
ISM 6942	MIS Internship	3

Optional Elective

ISM 6942	MIS Internship	1–3

Notes:

[1] Requirements for the Corporate MBA depend on track chosen. If a candidate has elected the option of a specialization, the requirements and shared/common courses for the Flex MBA will be used. Otherwise, the requirements and shared/common courses for the PMBA will be used.

[2] The Executive MBA and Professional MBA in Healthcare Management programs are not included as an option for the joint degree pathway.

[3] Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate.

For additional information, contact the MBA office at (305) 348-6852 or the MSIS Office at (305) 348-0148.

Master of Science in International Real Estate/Master of Business Administration Joint Degree Pathway

The Department of Finance and the Master of Business Administration program in the Alvah H. Chapman, Jr. Graduate School of Business at Florida International University have a joint degree pathway culminating in both a Master of Business Administration degree (MBA), and a Master of Science in International Real Estate degree (MSIRE). Under the joint degree programpathway, a student can obtain both degrees in less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program.
2. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree. MBA or MSIRE students must apply and be admitted prior to or concurrent with the last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. To obtain the MSIRE degree, the student will be required to take ten (10) finance courses totaling 30 hours as required by the program. This includes two finance courses, FIN 6428 Corporate Finance and FIN 6644 Global Financial Strategy, included in the MBA (and required by all the individual MBA programs) which are also required by the MSIRE Program, plus five real estate core courses in the MSIRE Program, plus two real estate (REE prefix) electives and an additional graduate course approved by the Program Director.
4. To obtain the MBA degree, the student will have to fulfill all the MBA program requirements for the specific MBA program in which they are also enrolled including the three 3-credit hour prerequisites, ten 3 credit core courses, four 1-credit seminars, and four 3-credit hour electives, for a total of 55 credit hours. Two finance courses are specifically required by both programs. In addition, two of the real estate (REE prefix) courses in the MSIRE may be considered as partially satisfying the elective requirements of the MBA program. The two degrees will have 4 common courses.
5. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSIRE courses transferred to meet MBA elective credit must be 6000 level courses. Directors of the MBA and MSIRE degree programs may adjust these exact course requirements as a result of future changes to the MBA or MSIRE curriculums.
6. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate.
7. With the joint degree pathway students will take a total of 73 credit hours to get both degrees. Without the joint degree pathway students would need to take 85 credit hours to earn both degrees. A maximum of 12 credit hours or four courses will be double counted for both degree programs. This means that a MBA student will be required to take a minimum of six courses or 18 additional credit hours above the requirements for the MBA Program to earn both degrees. Similarly, a student of the MSIRE must satisfy an additional 43 credit hours in order to earn both degrees.

For additional information, contact the Evening MBA office at (305) 348-3256 or the Master of Science in International Real Estate office at (305) 348-4198.

Master of Science in Human Resource Management/Master of Business Administration Joint Degree Pathway

The Department of Global Leadership and Management and the MBA program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University have a joint degree pathway culminating in both a Master of Business Administration degree (MBA), and a Master of Science in Human Resource Management (MSHRM). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option. Candidates deciding to pursue the joint degree option after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree. MBA or MSHRM students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. The two degrees will have two - four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSHRM courses transferred to meet MBA elective credit must be 6000 level courses approved by the University Curriculum Committee. Directors of the MBA and MSHRM degree programs may adjust these exact course requirements as a result of future changes to the MBA or MSHRM curriculums.

3.1 Joint Flex MBA/MSHRM Degree Pathway

3.1.1. To obtain the MSHRM degree, Flex MBA students must complete the following courses for a total of 68 credit hours as follows:

In the Flex MBA program (36 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3

QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

In the MSHRM program (32 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6626	International Human Resource Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

3.1.2. To obtain the Flex MBA, MSHRM degree students must complete a total of 68 credits as follows:

In the MSHRM program (38 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6327	High involvement Human Resource Management	3
MAN 6626	International Human Resource Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6385	Human Resource Strategy and Planning	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

In the Flex MBA program (30 credits hours):

ACG 6255	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

3.2. Joint International MBA/MSHRM Degree Pathway

3.2.1. To obtain the MSHRM degree, international MBA (IMBA) students must complete the following courses for a total of 77 credit hours as follows:

In the IMBA program (45 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6444	Global Financial Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6703	Colloquium in Managing Organizational Ethics	3
MAN 6830	Organizational Information Systems	3
MAN 6679	Master's Project in International Business	3
MAR 6805	Marketing Management in the Global Environment	3
QMB 6357	Business Statistical Analysis	3
Professional Development seminars (PDS) I, II, III		2

In the MSHRM program (32 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6327	High involvement Human Resource Management	3
MAN 6626	International Human Resource 3 Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6385	Human Resource Strategy and Planning	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

3.2.2. To obtain the International MBA (IMBA), MSHRM degree students must complete a total of 77 credits as follows:

In the MSHRM program (38 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6327	High Involvement Human Resource Management	3
MAN 6626	International Human Resource Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

In the IMBA program (39 credit hours):

ACG 6026	Accounting for Managers	3

ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6444	Global Financial Strategy	3
MAN 6608	International Business	3
MAN 6830	Organizational Information Systems	3
MAN 6703	Colloquium in Managing Organizational Ethics	3
MAN 6679	Master's Project	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development seminars (PDS) I, II, III		2

3.3. Joint Professional MBA/MSHRM Degree Pathway

3.3.1. To obtain the MSHRM degree, Professional MBA (PMBA) students must complete the following courses for a total of 74 credit hours as follows:

In the PMBA program (42 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financing Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
FIN 6644	Global Financial Strategy	3
MAN 6608	International Business	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

In the MSHRM program (32 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6626	International Human Resource Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

3.3.2. To obtain the Professional MBA (PMBA). MSHRM degree students must complete a total of 74 credits as follows:

In the MSHRM program (38 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6327	High Involvement Human Resource Management	3
MAN 6626	International Human Resource Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

In the PMBA program *(*36 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financing Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
FIN 6644	Global Financial Strategy	3
MAN 6608	International Business	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

Notes:

[1] Requirements for the Corporate MBA depend on track chosen. If a candidate has elected the option of a specialization, the requirements and shared/common courses for the Flex MBA will be used. Otherwise, the requirements and shared/common courses for the PMBA will be used.

[2] The Executive MBA and Professional MBA in Healthcare Management programs are not included as an option for the joint degree pathway.

Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all degree requirements for the first program as if the student had never been a joint degree pathway candidate.

For additional information, contact the MBA office at (305) 348-0148 or the Master of Science in Human Resource Management office at (305) 348-5945.

Master of Business Administration/ Doctorate of Medicine (MD) Joint Degree Pathway

The Herbert Wertheim College of Medicine (HWCOM) and the MBA in Healthcare Management program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University have a joint degree pathway culminating in both a Doctorate of Medicine (MD) and a Master of Business Administration degree (MBA). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint

degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. HWCOM Medical students in their third year of medical study may apply to the MBA program. Each college (College of Medicine and College of Business) will independently review and admit applicants to their programs. Only students admitted to both programs will enroll in classes in the joint program.
2. Joint degree pathway students will complete the first three years of coursework in the College of Medicine. Then, beginning in the fourth year, students in the joint pathway will interrupt their medical studies and begin classes for the MBA program. Classes in the MBA program will be taken during fall and spring semesters of the fourth year. During this time, students will complete 33 hours of course work in the MBA program. Nine credits taken in the medical school will count toward the 42 credits required for the MBA degree. At the beginning of the fifth year, students will recommence taking courses in the medical program. Students will graduate with both degrees at the end of the 5 years.
3. Students will be expected to complete a minimum of 42 credits for the MBA and 189 credits as well as all requirements for the MD degree. Thirty- three of those credits will be taken in the College of Business, with nine HWCOM credits being accepted toward the MBA degree. There is no change in course requirements for the MD degree.
4. Students will apply for the combined MD/MBA pathway in the following manner: Medical students in the summer or fall of their third year (prior to November first) must be in good academic standing and must get approval from the Medical Student Evaluation and Promotions Committee (MSEPC), the Office of Student Affairs (OSA), and the Office of Academic Affairs (OAA), in order to apply for admission to the MBA program. Applications will be reviewed by the MBA program admission committee. Applicants to the joint MD/MBA pathway will not be required to submit standardized test scores; they must have a minimum GPA of 3.0. However, they are required to have completed two years of experience, which includes volunteering, any internships or clerkships, and any full or part-time employment. All medical students interested in this program should already have at least two years of experience to satisfy this requirement.
5. Students begin taking classes in business in the fourth year. The entire fourth year is devoted to classes in the MBA program. The fall semester consists of five courses divided into two quarters. Three of the courses are face to face, and two courses are online. The spring semester consists of six courses, divided into two quarters. Four courses are face to face and two courses are online. There is also a requirement for program residencies (face to face/online) in August and March.

The curriculum in the MD/MBA pathway follows a prescribed course of study shown below. Structure of new joint MD/MBA degree. The proposed schedule is as follows. (HWCOM does not have semesters. Therefore, we have used Period designations.)

First Year Period 1 (Ml) August to end of March: College of Medicine curriculum
Second Year Period 2 (M2) April to end of March: College of Medicine curriculum
Third Year Period 3 (M3) April to end of March: College of Medicine: all required clerkships
Fourth Year Period 4 (M4) April through July only: medical students start M4 electives, selectives or subinternship Students take USMLE Step I May or June

Medical students must be counseled as to when to take USMLE Step I and USMLE Step 2 CK and CS, and which electives, selective or subinternship to engage in prior to taking a leave to pursue the MBA.
The remainder of Period 4 (M4) then consists of MBA courses. That is, from August through end of April.

Fifth year- Spring semester of the MBA program ends the end of April. Medical students take the remainder of M4 period in the medical school (May through April).

The MBA residency #3 (online) could be taken during the first quarter of Spring term. Therefore, this will allow for the student to have additional time for the M4 year. The Lean Six Sigma Green Belt case offered in May, (listed below) would be optional for the MD/MBA pathway students.

Medical students will be counseled as to which electives, selectives or subinternship to take prior to applying for residency in September of this fifth year.
Below are the courses to be taken for the MBA and their location (Brickell or online).

FALL
Fall A

MAN 6245	Organizational Behavior (HCMBA Brickell)	3
ACG 6026	Accounting for Managers (online Corporate MBA)	3

Fall B

BUL 6810	Legal Environment of Business (HCMBA Brickell)	3
FIN 6406	Corporate Finance (HCMBA online)	3
MAR 6805	Marketing Management in Global Environment (PMBA Flex)	3

SPRING
Spring A

MAN 6098	Management of Healthcare Finance & Reimbursement (HCMBA Brickell)	3
ISM 6021	Management of Information Systems (HCMBA Brickell)	3
ACG 6175	Financial Reporting & Analysis (HCMBA online)	3
MAN 6726	Strategic Management (HCMBA online)	3

Spring B

QMB 6616	Business Process and Operations Analysis(HCMBA Brickell)	3
MAN 6097	Managerial Decision Making in Health Economics (HMBA Brickell)	3

NOTE: HCMBA Brickell courses meet on Saturdays. PMBA (Flex) Brickell course meets Tuesdays or Thursdays 6:30-9:30 PM.

Courses waived in MBA:

MAN 6095	Management of Healthcare Organizations in the 21st Century	3

BUL 6605	Healthcare Fraud and Abuse Law & Regulation	3
MAN 6974	Master's Project in Management	3
Credits accepted from HWCOM: 9 credits		
MDR 7910	Research Scholarship	4
BMS 6880	Foundations of Clinical Epidemiology & Quantitative Research	2
BMS 6067	US Healthcare Delivery System	2
BMS 6826	Ethical Foundations of Medicine	1

There are, therefore, 11 courses to be taken in the College of Business, for a total of 33 credits.

School of Accounting

Mark Myring, *Professor, School Director*
Jose Aldrich, *Clinical Professor*
David Barman, *Associate Teaching Professor*
Abhijit Barua, *Professor*
Pietro Bianchi, *Assistant Professor*
Teresita Brunken, *Clinical Assistant Professor*
Jimmy Carmenate, *Clinical Assistant Professor*
Lucia Chang, *Professor Emeritus*
Silver Chung, *Assistant Professor*
Mort Dittenhoffer, *Professor Emeritus*
Desiree Elias, *Assistant Teaching Professor*
Wendy Gelman, *Teaching Professor*
Erica Harris, *Assistant Professor*
Kenneth Henry, *Clinical Professor*
Xiaochuan (Kelly) Huang, *Associate Professor*
Stan Jansta, *Teaching Professor*
Ruth Ann McEwen, *Professor Emeritus*
Jonathan Milian, *Associate Professor*
Kenneth S. Most, *Professor Emeritus*
Sue Ganske, *Clinical Professor*
Frederick Perry, *Clinical Professor*
Felix Pomeranz, *Professor Emeritus*
Kannan Raghunandan, *Professor and Ryder Eminent Scholar Chair in Business Leadership*
Leonardo Rodriguez, *Professor Emeritus*
Pablo Simon, *Assistant Teaching Professor*
Antoinette Smith, *Professor*
Krishnamurthy Surysekar, *Professor and Director, Master of Accounting Program*
Minye (Michael) Tang, *Assistant Professor*
Thomas J. Tarangelo, *Assistant Teaching Professor*
Maria Vulcheva, *Associate Professor*
Miriam Weismann, *Clinical Professor*
Clark Wheatley, *Professor and Morris, Brown, Argiz, and Farra Professor in Accounting*

Purpose

Our mission as a School of Accounting in an internationally-focused public research university is to:

- Foster an environment of intellectual curiosity, diversity of thought, and integrity;
- Provide a diverse student body with excellence in accounting education in order to succeed as business professionals and leaders as well as valued members of society;
- Prepare students for advancement in the accounting profession through specialized masters programs that strengthen professional competencies;
- Serve the academic community through scholarly research, colloquia, and the training of future accounting educators;
- Promote opportunities for professional development, lifelong learning and networking for our alumni and accounting professionals in the local, national and global community.

Master of Accounting (MACC)

The Master of Accounting degree program prepares students for a career in accounting.

Depending on a student's interests, he or she will prepare for a variety of career. Protentional careers include, accounting systems, consultant, auditor, corporate officer, or public accountant; corporate management accounting; financial accounting and auditing systems; independent accountant in public accounting; internal auditing; internal auditor, industry or government; and internal accountant or corporate officer.

The School of Accounting offers a Master of Accounting (MACC) with tracks in Analytics, Assurance, Forensic Accounting, and Taxation. The program is designed for students who have completed an undergraduate degree in accounting, or the equivalent, from an accredited college or university. The Director of the School of Accounting will determine the equivalency of students' undergraduate degrees.

Students whose undergraduate degrees are in majors other than accounting will be required to make up for business and/or accounting deficiencies. The Director of the School must approve programs of study for students seeking to correct such deficiencies.

All students taking graduate accounting and tax courses must be fully admitted to the graduate accounting program or have written permission from the Director of the School. Registration for all such course work must be made through the appropriate College advisor.

Admission Requirements

To be eligible for admission to a Master's degree in the School of Accounting in the Chapman Graduate School, students must:

1. Hold a Business Bachelor's degree from an accredited college or university;
2. Show high promise of success in graduate studies as determined by the faculty based upon a minimum score of 500 on the Graduate Management Admission Test (GMAT) or the equivalent on the Graduate Record Exam (GRE). Applicants submitting GRE scores will be considered on an individual basis. The GMAT requirement will be waived if the student has
   a. A graduate degree from an AACSB accredited university, or;
   b. passed all parts of the CPA exam or;
   c. obtained an undergraduate accounting degree from FIU or an AACSB accredited school or university with an upper division GPA of at least 3.25
3. Have a minimum upper division grade point average (GPA) of 3.0;
4. Graduate student applicants whose studies were completed outside of the US must demonstrate English language proficiency by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version) or 6.5 overall on the International English Language Testing System (IETLS);
5. Be in good standing with all previously-attended colleges and universities.

Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission.

Special Program Requirements

Consistent with the current Florida CPA credentialing educational requirements, admission to the graduate accounting program requires an applicant with a nonaccounting degree to complete business prerequisite courses and up to eight undergraduate upper-division accounting courses (24 credit hours) from among the following: three credit hours of auditing, three credit hours of cost accounting, six credit hours of financial accounting, three credit hours of accounting information systems, six credit hours of taxation, three credit hours of business law, and three additional credit hours of accounting/business law/taxation coursework
Alternately, students may complete accelerated graduate-level prerequisite coursework equivalent to the undergraduate courses noted.

Florida Certified Public Accountant Requirements

Completing a Bachelor of Business Administration with a concentration in Accounting does not alone meet the Florida State Board of Accountancy educational requirements for CPA licensure. These requirements include earning 30 credit hours beyond an undergraduate degree for a total of 150 credit hours, with a total of 36 semester hours of accounting and 39 hours of general business including three hours of business law. One year of work experience in an accounting-related field is also required for licensure.

FIU's graduate accounting program satisfies the 30 semester hours beyond a Bachelor's degree required for CPA licensure.

Core Courses

All tracks in the MACC are comprised of 18 credits of core courses and 12 credits of specialized track courses.

MACC Core Courses:

ACG 6176	Evaluation of Financial Reports, Business Analysis and Valuation
ACG 6225	Advanced Accounting
ACG 6257	Global Accounting, Auditing and Financial Strategy
ACG 6385	Managerial Control and Controllership
ACG 6455	AIS Systems Control (Analytics)
ACG 6505	Governmental and Non-profit Accounting

Elective Courses

Elective courses for all tracks are selected from the following listing:

ACG 6135	Seminar in Financial Accounting Theory I
ACG 6295	Financial Accounting IV
ACG 6406	Accounting Data Warehousing and Analysis
ACG 6437	Advanced Accounting Information Systems
ACG 6466	Accounting Enterprise Resource Planning
ACG 6625	Information Technology Auditing
ACG 6657	Environment of Accounting and Auditing
ACG 6675	Internal Auditing
ACG 6676	Advanced Internal Auditing
ACG 6677	Applied Internal Auditing
ACG 6685	Introduction to Forensic Accounting
ACG 6686	Fraud Examination
ACG 6687	Financial Investigation
ACG 6692	Business Analytics for Forensic Accounting
ACG 6696	Current Issues in Auditing
ACG 6838	Fraud Investigation
ACG 6867	Seminar in Medicare Regulation
ACG 6885	Accounting Research and Reporting
ACG 6935	Special Topics in Accounting
ACG 6845	Accounting and Quantitative Methods
ISM 6136	Business Analytics Applications
ISM 6404	Business Data Visualization and Reporting
QMB 6357	Business Analysis for Decision Making
TAX 6026	Value-Added Tax Strategies for Business Decisions
TAX 6065	Tax Research, Practice and Procedure
TAX 6105	Taxation of Corporations I
TAX 6107	Federal Corporate Taxation
TAX 6115	Taxation of Corporations II
TAX 6205	Partnership Taxation
TAX 6206	Taxation of Pass-Through Entities
TAX 6305	State and Local Taxation
TAX 6405	Estate and Gift Taxation
TAX 6415	Fiduciary Accounting and Taxation
TAX 6445	Estate Planning
TAX 6446	Wealth Transfers
TAX 6505	International Taxation I
TAX 6507	Principles of International Taxation
TAX 6515	International Taxation II
TAX 6805	Tax Policy
TAX 6835	Taxation of Deferred Compensation
TAX 6875	Current Developments in Taxation
TAX 6876	Transactions in Property
TAX 6877	Seminar in Taxation
TAX 6905	Independent Study in Taxation
TAX 6935	Special Topics in Taxation

The Director of the School of Accounting determines the schedule and may substitute up to two of these 6000 level courses with other 6000 level accounting courses.

Analytics Track

The Analytics track of the Masters of Accounting (MACC-Analytics) requires students to complete a minimum of 12 credits of statistics and Analytics as part of the 30-credit Masters of Accounting program (MACC). The track provides our students a clear designation of their concentration in the field.

The Analytics track also requires students complete one additional required ACG course (3 credits),

ACG 6456	Accounting Information Systems Technology, Control and Audit II (capstone)

In addition to 9 credits from among the group of elective courses.

The Faculty Director of the Master of Accounting program and Director of the School of Accounting determines the schedule and track specific elective courses for each cohort.

Assurance Track

The Assurance Track of the Masters of Accounting (MACC-Assurance) requires students to complete a minimum of 12 elective credits in the field of assurance

within the 30-credit Masters of Accounting program (MACC). The Assurance Track provides students a clear designation of their concentration in the field.

The Faculty Director of the Master of Accounting program and Director of the School of Accounting determines the schedule and track specific elective courses for each cohort.

Forensic Accounting Track

The Forensic Accounting Track of the Masters of Accounting (MACC-Forensic Accounting) requires students to complete a minimum of 12 elective credits in the field of forensic accounting within the 30-credit Masters of Accounting program (MACC). The track provides our students a clear designation of their concentration field, which is particularly attractive in a metropolitan area where identity theft, money laundering, estate settlements, healthcare fraud, and valuation disputes are prolific.

The Faculty Director of the Master of Accounting program and Director of the School of Accounting determines the schedule and track specific elective courses for each cohort

Taxation Track

The Taxation Track of the Master of Accounting (MACC-Tax) requires students to complete a minimum of 12 elective credits in the field of taxation within the 30-credit Master of Accounting program (MACC). The Taxation Track provides students a clear designation of their concentration in the taxation field.

The Faculty Director of the Master of Accounting program and Director of the School of Accounting determines the schedule and track specific elective courses for each cohort.

Computer Requirements

All MACC students are expected to own a laptop computer with wireless capability. You must have a laptop computer in order to begin your studies. A list of minimum requirements is available at **http://business.fiu.edu** or by contacting the program office.

Combined Bachelor of Accounting/Master of Accounting (BAcc/MAcc)

The Combined Bachelor of Accounting/Master of Accounting (BAcc/MAcc) degree pathway is designed for outstanding undergraduate students interested in continuing studies beyond their baccalaureate degree. The pathway provides a strong base of knowledge and skills in accounting, and at the same time accelerates completion of the Master of Accounting degree. Students may take advantage of the overlap of courses in the Bachelor of Accounting and Master of Accounting programs to receive their Master of Accounting degree in a shorter period than might otherwise be possible.

A student admitted to the combined degree pathway will be considered to have undergraduate status until conferral of their Bachelor of Accounting degree. Upon conferral of their undergraduate degree, the student will be granted graduate status.

Admission Requirements

1. Students must be enrolled in the Bachelor of Accounting (BAcc) degree program.
2. Students must have completed at least 75, but no more than 90, credits of coursework.
3. Students must have completed ACG 4101 or equivalents with a B+ or better.
4. Students must have an overall (transfer and FIU) GPA of 3.34 or higher.
5. Students must have two letters of recommendation, with at least one from a faculty member of the FIU School of Accounting.

General Requirements

1. Students must maintain a GPA of 3.0 or greater to remain in the pathway.
2. Bachelor of Accounting (BAcc) degree must be awarded before the Master of Accounting degree.
3. No grade below “C” will be accepted in any course taken to satisfy graduate program requirements.
4. Grade requirements for the Master of Accounting (MAcc) apply to courses counted toward the MAcc degree.
5. Up to 4 courses (12 credits) may be used in satisfying both the Bachelor of Accounting and Master of Accounting degree requirements.
6. Students must fulfill the degree requirements of both the Bachelor of Accounting and Master of Accounting programs, with all overlapping courses approved by both graduate program director and undergraduate advisors before students enroll in such courses.

Master of Accounting/Master of Business Administration Joint Degree Pathway

The School of Accounting and the IMBA program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University offer a joint degree pathway culminating in both a Master of Accounting (MACC) and a Master of Business Administration. Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option.
2. Applications for a joint degree will not be accepted from candidates who have already completed either degree.
3. Domestic undergraduate non-accounting degree holders; and international degree holders, regardless of major, will take the following courses, for a saving of 15 credits:
   - 34 credits at the 6000-level from the IMBA
   - 15 credits at the 5000-level from the MACC
   - 30 credits at the 6000-level from the MACC
4. Domestic undergraduate accounting degree holders from AACSB accredited universities, may petition to

waive the 5000-level MACC courses, for a saving of an additional 15 credits.
5. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. Directors of the MACC and MBA degree programs may adjust these exact course requirements as a result of future changes to the MACC or MBA curriculums.
6. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate.

With prior approval of the Director of the School of Accounting, two courses may be substituted for other 6000 level business courses.

Master of Accounting/Master of Science in Information Systems Joint Degree Pathway

The School of Accounting and the MSIS program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University are proposing a joint degree program culminating in both a Master in Accounting (MACC) and a Master of Information Systems (MSIS). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on their initial application their intention to pursue the joint degree option.
2. Applications for a joint degree will not be accepted from candidates who have already completed either degree.
3. Domestic undergraduate non-accounting degree holders; and international degree holders, regardless of major, will take the following courses, for a saving of 15 credits:
   - 24 credits at the 6000-level from the MSIS
   - 15 credits at the 5000-level from the MACC
   - 30 credits at the 6000-level from the MACC
4. Domestic undergraduate accounting degree holders from AACSB accredited universities may petition to waive the 5000-level MACC courses, saving an additional 15 credits.
5. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. Directors of the MACC and MSIS degree programs may adjust these exact course requirements as a result of future changes to the MACC or MSIS programs.
6. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first-degree program requirements as if the student had never been a joint degree candidate.

Accounting Concentration in the Ph.D. Program

The School of Acccounting offers an Accounting concentration in the doctoral program in Business Administration. The Ph.D. program is a 75-credit hour program.

The first two years of the PhD program are typically spent in coursework and the last two years are spent working on the dissertation.

Students will also take courses with other departments (e.g. Finance, Economics, and Statistics) offering courses relevant to individual doctoral student's research needs.

Sample Course Study

Year I		
Fall		
ACG 7886	Seminar: Empirical Research Methodology and Paradigms in Accounting	3
FIN 7845	Statistical Methods in Finance I	3
ECO 7405	Mathematical Methods in Economic Analysis I	3
ACG 7906	Independent Study in Accounting	1
Spring		
ACG 7888	Seminar: The Philosophy of Science, Theory Construction, and Verification in Accounting	3
ACG 7157	Seminar: Theory and Contemporary Research in Financial Accounting	3
Please refer to research course tools listed below		
ECO 6XXX*	Research Tools	3
	OR	
ECO 7XXX*	Research Tools	3
	OR	
STA 6XXX*	Research Tools	3
	OR	
STA 7XXX*	Research Tools	3
ACG 7906	Independent Study in Accounting	1
Summer		
ACG 7906	Independent Study in Accounting	6
Year II		
Fall		
ACG 7938	Seminar: Special Topics in Accounting Research	3
ACG 7896	Accounting Research Methods on Capital Markets	3
Please refer to research course tools listed below		
ECO 6XXX*	Research Tools	3
	OR	
ECO 7XXX*	Research Tools	3
	OR	
STA 6XXX*	Research Tools	3
	OR	
STA 7XXX*	Research Tools	3
ACG 7906	Independent Study in Accounting	1
Spring		
ACG 7177	Seminar: Accounting Information and Security Prices	3
ACG 7906	Independent Study in Accounting	3-6
	OR	
Please refer to research course tools listed below		

ECO 6XXX*	Research Tools	3
	OR	
ECO 7XXX*	Research Tools	3
	OR	
STA 6XXX*	Research Tools	3
	OR	
STA 7XXX*	Research Tools	3
ACG 7906	Independent Study in Accounting	1
Summer		
ACG 7906	Independent Study in Accounting	6
Year III		
Fall		
ACG 7981	Ph.D Dissertation Prep	9
Spring		
ACG 7980	Ph.D Dissertation	3
Summer		
ACG 7980	Ph.D Dissertation	3
Year IV		
Fall		
ACG 7980	Ph.D Dissertation	3
Spring		
ACG 7980	Ph.D Dissertation	3
Summer		
ACG 7980	Ph.D Dissertation	3

Research tools courses: Specific research tool courses to be taken by Ph.D. students depend on their prior academic background and should be approved by the Accounting Doctoral Director.

ECO Courses

ECO 6112	Fundamentals of Microeconomic Theory
ECO 7405	Mathematical Methods in Economic Analysis I
ECO 7424	Econometric Methods I
ECO 7425	Econometric Methods II

STA Courses

STA 6166	Statistical Methods in Research I
STA 6167	Statistical Methods in Research II
STA 6244	Data Analysis I
STA 6247	Data Analysis II
STA 6505	Analysis of Categorical Data
STA 6746	Multivariate Statistical Analysis

Notes:

1. This Accounting Ph.D. program of study is a sample guideline that can be adjusted depending on the availability of classes and students' needs.
2. Students can take additional seminar courses from other departments with the approval of the Accounting Doctoral Director. For example, the students pursuing financial accounting research may be interested in Investment seminar or Corporate Finance Seminar offered by the Finance Department.
3. All Ph.D. students must register one credit hour for research colloquium in every semester until they have advanced to candidacy.
4. Every Ph.D. student must present at least one summer paper in the SOA research colloquium before their proposal defense.

Graduate Professional Accountancy Certificate

The Graduate Professional Accountancy Certificate provides students; who have completed a 120-credit hour undergraduate degree in accounting, or the equivalent, from an accredited college or university as well as an additional 12 to 15 credit hours; with advanced skills needed to pursue an accounting career.
Completing this graduate certificate allows students to earn 15 to 18 semester hours beyond an undergraduate degree in accounting, or the equivalent, required for CPA licensure, consistent with the Florida State Board of Accountancy educational requirements. Requirements include earning 30 credit hours beyond a 120-credit hour undergraduate degree for a total of 150 credit hours, with a total of 36 semester hours of accounting and 39 hours of general business including three hours of business law. One year of work experience in an accounting-related field is also required for licensure.

Admission Requirements

To be eligible for admission to a Graduate Professional Accountancy Certificate from the School of Accounting in the Chapman Graduate School, students must:

1. Hold a Business Bachelor's degree from an accredited college or university in the field of accounting.
2. Show high promise of success in graduate studies as determined by the faculty based upon a minimum score of 500 on the Graduate Management Admission Test (GMAT) or the equivalent on the Graduate Record Exam (GRE). Applicants submitting GRE scores will be considered on an individual basis. The GMAT requirement will be waived if the student has
   a) A graduate degree from an AACSB accredited university, or;
   b) passed all parts of the CPA exam or;
   c) obtained an undergraduate accounting degree from FIU or an AACSB accredited school or university with an upper division GPA of at least 3.25
3. Have a minimum upper division grade point average (GPA) of 3.0.
4. Graduate student applicants whose studies were completed outside of the US must demonstrate English language proficiency by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version) or 6.5 overall on the International English Language Testing System (IETLS).
5. Be in good standing with all previously attended colleges and universities.

Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission.

Prerequisite:

Baccalaureate degree in accounting.

Program of Study (15-18):

ACG 6176	Evaluation of Financial Reports, Business Analysis and Valuation	3
ACG 6225	Value Added Accounting Practices in Strategic Business Decisions	3

ACG 6257	Global Accounting, Auditing and Financial Strategy	3
ACG 6385	Managerial Control and Controllership	3
And one or two of the following:		
ACG 6455	AIS Systems Control (Analytics)	3
ACG 6506	Governmental and Non-profit Accounting	3
TAX 6026	Value-Added Tax Strategies for Business Decisions	3

Tibor and Sheila Hollo School of Real Estate

Eli Beracha, *Professor, and School Director*
William Hardin, *Professor and Interim Dean, College of Business*
Suzanne Hollander, *Senior Instructor*
Zhenguo Lin, *Professor and Tibor and Sheila Research Fellow*
Mark Thibodeau, *Assistant Professor*
Zhonghua Wu, *Professor and Tibor and Sheila Research Fellow*

Purpose

The Tibor and Sheila Hollo School of Real Estate offers a Master of Science in International Real Estate degree that prepares students to analyze and solve complex real estate investment decisions. The curriculum grounds the students in areas such as real estate investments, mortgage related securities, mortgage banking, commercial brokerage, development, asset management, and property management with an international focus.

Master of Science in International Real Estate (MSIRE)

Admission Requirements

To be eligible for admission to the Master of Science in International Real Estate program in the Chapman Graduate School of Business, students:

1. Must hold a Bachelor's degree or equivalent from either a U.S. accredited college or university or the equivalent for institutions outside the U.S. A degree in business is not required;
2. Will show high promise of success in graduate studies as determined by the faculty based upon academic performance, work experience or a combination of academic and work experience. Evidence includes a minimum score of 500 on the Graduate Management Admission Test (GMAT) or similar Graduate Record Exam (GRE) score or demonstrate at least four years of industry (real estate, development, architecture and affiliated industries such as banking, finance, insurance, etc.) work experience. Applicants who have an undergraduate business degree from Florida International University with an upper division grade point average (GPA) of 3.25, or having a business, economics, engineering, construction management or architecture degree from an accredited school with an upper division grade point average (GPA) of 3.25 are eligible for a GMAT or GRE waiver at the discretion of the faculty director. If the applicant has already completed a graduate degree from an accredited university with a minimum grade point average (GPA) of 3.0, or is entering a business master's program under a special agreement for admissions with specific foreign universities, he or she would be eligible for a GMAT or GRE waiver at the discretion of the faculty director;
3. Should, in general, have a minimum upper division grade point average (GPA) of 3.0. An applicant with substantial work experience and industry/work related recommendations will be evaluated based on academic and industry performance;
4. Must, when the applicant's studies were completed outside of the U.S., demonstrate proficiency of the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version) or 6.5 overall on the International English Language Testing System (IETLS);
5. Can provide any additional documentation to augment and strengthen the application portfolio. For example, a master's degree in any discipline, a degree in Law, professional certifications and specialized industry or leadership experience or training;
6. Who are enrolled in the Certificate of International Business program and have completed the first 12 graduate credits with a GPA of 3.25 or higher, may be eligible for admission to the program;
7. Who have been accepted and are successfully completing other Florida International University graduate degrees in business, architecture, construction management, economics, hospitality management, or engineering will be evaluated on their graduate school performance. A minimum graduate grade point average (GPA) of 3.0 in these programs is required; and
8. Will be in good standing with all previously attended colleges and universities.

Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission.

To complete a Master of Science in International Real Estate degree, students must complete a minimum of 30 semester hours (10 courses).

The following courses are required for the MSIRE degree:

Core Courses

REE 6045	Real Estate Markets, Institutions and Practices
REE 6435	Real Estate Law
FIN 6406	Corporate Financial Management
REE 6305	Advanced Real Estate Investments and Valuation
REE 6209	Real Estate Finance
REE 6935	Seminar in International Real Estate

Required Electives: are to be determined under consultation with the Faculty Director of MSIRE Program and the Director of the Hollo School of Real Estate.

Typical electives include REE 6715 Real Estate Development, REE 6932 Special Topics in Real Estate and REE 6306C Corporate Real Estate Management**,** REE 6147 Real Estate Market Analysis, REE 6327 Global Real Estate Capital Markets, REE 6227 Real Estate Modeling and Data Analytics, FIN 6246 Financial Markets and Institutions, and FIN 6644 Global Financial Strategy.

The minimum passing grade for any MSIRE course is "C". MSIRE students must maintain an overall grade point average (GPA) of 3.0.

For more information, contact the program manager (305) 779-7898.

Master of Science in Finance/Master of Science in International Real Estate Joint Degree Pathway

The Department of Finance, Tibor and Sheila Hollo School of Real Estate and the Alvah H. Chapman Jr. Graduate School of Business at Florida International University have a joint degree pathway culminating in both a Master of Science in Finance (MSF), and a Master of Science in International Real Estate (MSIRE) degree. Under the joint degree pathway, a student can obtain both degrees in less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option. Students deciding to pursue the joint degree option after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree will not be accepted from candidates who have already completed either degree. MSF or MSIRE students must apply and be admitted prior to or concurrent with the last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. To obtain the MSIRE degree, the student will be required to take ten (10) courses totaling thirty (30) credit hours. This includes the five real estate courses in the MSIRE core, three finance courses in the MSIRE core, plus one real estate (REE prefix) elective and one finance (FIN prefix) elective for a total of 30 credit hours. The Faculty Director of the MSIRE may substitute other suitable courses for these electives at the request of the student. The eight core REE and FIN courses include REE 6045 Real Estate Markets, Institutions, and Practices, REE 6209 Real Estate Finance, REE 6305 Real Estate Investments, REE 6435 Real Estate Law, REE Seminar in International Real Estate, FIN 6406 Corporate Finance, FIN 6644 Global Financial Strategy, and FIN 6246 Financial Markets and Institutions.
4. To obtain the MSF degree, the student will have to fulfill all MSF program requirements, including eleven finance courses totaling thirty-three (33) credit hours, eight courses of which are considered part of the core curriculum. The eight core MSF courses are FIN 6406 Corporate Finance, FIN 6644 Global Financial Strategy, FIN 6246 Financial Markets and Institutions, FIN 6456 Quantitative Methods in Financial Analysis, FIN 6515 Security Analysis, FIN 6537 Financial Futures and Fixed Income Investment, and FIN 6487 Financial Risk Management. The remaining three courses must be taken in one of three specializations approved by the faculty and which include three courses in Corporate Finance, three in Investments, or three in Commercial and International Banking.
5. The three finance courses in the MSIRE core curriculum correspond to three of the courses in the core MSF program. Therefore, students pursuing the joint degree pathway will be credited for these courses in both programs. In addition, one Real Estate course in the MSIRE curriculum may be counted as one of the three courses required by the MSF specialization. The two degrees then will potentially have 4 common courses.
6. A minimum of seventeen (17) courses will be required to earn the dual degrees: four common courses, six specific to the MSIRE program, and seven specific to the MSF program. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. The Faculty Directors of the MSIRE and MSF degree programs may adjust these exact course requirements as a result of future changes to the MSIRE or MSF curriculums, subject to the approval of the Dean of the Chapman Graduate School.
7. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree candidate.
8. With the joint degree pathway students will take a total of 51 credit hours to get both degrees. Without the joint degree programs students would need to take 63 credit hours to get both degrees.

Master of Science in International Real Estate/Master of Business Administration Joint Degree Pathway

The Hollo School of Real Estate and the Master of Business Administration program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University offer a joint degree pathway culminating in both a Master of Business Administration degree (MBA), and a Master of Science in International Real Estate degree (MSIRE). Under the joint degree pathway, a student can obtain both degrees in less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option. Candidates deciding to pursue the joint degree option after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree will not be accepted from candidates who have already completed either degree. MBA or MSIRE students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. The two degrees will have three – four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSIRE courses transferred to meet MBA elective credit must be 6000 level courses. Directors of the MBA and MSIRE degree programs may adjust these exact course

requirements as a result of future changes to the MBA or MSIRE curriculums.

3.1 Joint Flex MBA/MSIRE Degree

To obtain MSIRE/MBA through the Flex program, students must complete the following courses for a total of 63 credit hours as follows:

In the Flex MBA program (36 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Analysis for Decision Making	3

Professional Development Seminars (PDS)

In the MSIRE program (27 credit hours):

REE 6045	Real Estate Markets, Institutions, and Practices	3
REE 6209	Real Estate Finance	3
REE 6305	Advanced Real Estate Investment Valuation	3
REE 6935	Seminar in International Real Estate	3
REE 6435	Real Estate Law	3
REE 6715	Real Estate Development	3
REE 6147	Real Estate Market Analysis	3
REE 6932	Special Topics in Real Estate	3
FIN 6644	Global Financial Strategy	3

3.2. Joint International MBA/MSIRE Degree

To obtain MSIRE/MBA through the International program, students must complete the following courses for a total of 69 credit hours as follows:

In the IMBA program (45 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6644	Global Financial Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6608	International Business	3
MAN 6703	Colloquium in Managing Organizational Ethics	3
MAN 6679	Master's Project	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Analysis for Decision making	3

Professional Development Seminars (PDS) I, II, lll

In the MSIRE program (24 credit hours):

REE 6045	Real Estate Markets, Institutions, and Practices	3
REE 6209	Real Estate Finance	3
REE 6305	Advanced Real Estate Investment Valuation	3
REE 6935	Seminar in International Real Estate	3
REE 6435	Real Estate Law	3
REE 6715	Real Estate Development	3
REE 6147	Real Estate Market Analysis	3
REE 6932	Special Topics in Real Estate	3

Notes:

[1] Requirements for the CMBA depend on track chosen. If a candidate has elected the option of a specialization, the number of credit hours required and shared for the Flex will be used. Otherwise, the option for a joint degree is not available with the MSIRE.

[2] The EMBA. Professional MBA, and Professional MBA in Healthcare Management programs are not included as an option for the joint degree.

[3] Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree candidate.

For additional information, contact the Evening MBA office at (305) 348-0148 or the Master of Science in International Real Estate office at (305) 348-4198.

Finance

Shahid Hamid, *Professor and Department Chair*
Dallin Alldredge, *Assistant Professor*
Joel Barber, *Associate Professor*
Deanne Butchey, *Teaching Professor*
Mustafa Caglayan*, Associate Professor and Knight Ridder Research Fellow*
Flavio Carrillo, *Associate Teaching Professor. Director, Truist FIU Financial Wellness Clinic and Capital Markets Lab*
Chun-Hao Chang, *Professor*
Wen-Hsiu Chou, *Associate Professor and Knight Ridder Research Fellow*
Robert T. Daigler, *Professor Emeritus*
Krishnan Dandapani, *Professor, and Academic Director, Professional MBA Programs*
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Mark Del Pezzo, *Associate Teaching Professor*
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Xiaoquan Jiang, *Professor and Ryder Systems Research Fellow*
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David Koslowsky, *Associate Teaching Professor*
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Anastasios Moysidis, *Teaching Professor*
Ozde Oztekin, *Professor and Knight Ridder Eminent Scholar*
Ali M. Parhizgari, *Professor*
Arun Prakash, *Professor Emeritus*
Robinson Reyes Peña, *Assistant Teaching Professor*
Emmanuel Roussakis, *Professor Emeritus*
Florent Rouxelin, *Assistant Professor*
Arun Upadhyay, *Associate Professor and Knight Ridder Eminent Scholar*
Minho Wang, *Assistant Professor*
Liang Zhang, *Assistant Professor*
John S. Zdanowicz, *Professor Emeritus*

Purpose

The Department of Finance graduate program seeks to extend and deepen students' understanding of finance in both its theoretical and practical dimensions.

The Department offers a Master of Science in Finance (MSF) degree that prepares graduates to analyze and solve problems related to obtaining and using real and financial assets and liabilities. The curriculum grounds students in the areas of banking, corporate finance, investment, portfolio management, financial risk management, financial engineering, financial markets, institutions, and international finance. It provides them with concepts and applications framed within the most current developments in these fields.

The Department also offers a Finance Concentration in the EVEMBA program. Contact the Program Manager for details.

Master of Science in Finance (MSF)

Admission Requirements

1. Hold a Bachelor's degree from an accredited college or university;
2. Show high promise of success in graduate studies as determined by the faculty based upon academic performance, work experience or a combination of academic and work experience. Evidence include a minimum score of 500 on the Graduate Management Admission Test (GMAT), or an equivalent score on the Graduate Record Examinations (GRE) test, or demonstration of at least four years of Business (finance-affiliated industries such as banking, investment, accounting, insurance, etc.) related work experience, or have an undergraduate business degree with a finance major from FIU or similar accredited school with a minimum grade point average (GPA) of 3.0. If the applicant already completed a graduate degree from an accredited university with a minimum grade point average (GPA) of 3.0, or is entering a business master's program under a special agreement for admissions with specific foreign universities, he or she would be eligible for a GMAT or GRE waiver at the discretion of the faculty;
3. Should, in general, have a minimum upper division grade point average (GPA) of 3.0. An applicant with substantial work/industry experience and recommendations will be evaluated based on a combination of his or her academic and industry experience;
4. International graduate student applicants whose studies were completed outside of the U.S. must demonstrate proficiency of the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version or 213 on the computer based version of the test of English as a Foreign Language) or 6.5 overall on the International English Language Testing System (IELTS). As alternative forms of showing sufficient English proficiency, students may also present the following:
    a. FIU English Language Institute ("ELI") Program Level Six completion: successful completion with passing grades for all content areas;
    b. GRE Verbal Reasoning Score: 151/Analytical Writing Score: 3.5; GMAT Verbal Score: 28/Analytical Writing Score: 4.5;
    c. Graduate students having completed English Composition: Writing and Rhetoric 1 ("ENC 1101") and English Composition: Writing and Rhetoric 2 ("ENC 1102") with passing scores of C or better from an accredited U.S. institution or as part of a signed articulation agreement.
    d. Students applying to FIU under agreements for admissions with foreign universities having demonstrated their programs are

taught fully in English and/or that they enforce English proficiency exam requirements for admission considered comparable to FIU English Proficiency requirements are eligible for a TOEFL waiver under terms of the agreement.

e. International agreements must follow standard approval process through the Office of Academic Planning and Accountability and document applicability of waiver. Undergraduate students meeting the minimum Florida Board of Governors regulation for college readiness scores in the reading and English sections.

5. Be in good standing with all previously-attended colleges and universities.

Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission.

To earn a Master of Science in Finance degree, students must complete a minimum of 36 semester hours (12 courses)

The 36 credit-hour requirement may be reduced to 33 hours for students who have an accredited Master's degree in Business Administration (MBA). In addition, students may be allowed to transfer three graduate semester hours from an accredited university even if they did not secure an advanced degree.

The following courses are required for the MSF degree:

Core Courses

FIN 6406	Corporate Finance
FIN 6456	Quantitative Methods in Financial Analysis
FIN 6515	Security Analysis
FIN 6246	Financial Markets and Institutions
FIN 6525	Portfolio Management
FIN 6537	Financial Futures and Fixed Income Investments
FIN 6487	Financial Risk Management
FIN 6644	Global Financial Strategy
FIN 6465	Financial Planning and Statement Analysis

Required Electives: Choose either A, B, or C

A).

FIN 6425	Financial Management Policies
FIN 6436	Capital Budgeting and Long Term Resource Allocation
FIN 6776	Financial Software

or

B).

FIN 6425	Financial Management Policies
FIN 6517	Advanced Investment
FIN 6489	Advanced Financial Risk Management

or

C).

FIN 6625	International Bank Management
FIN 6326	Commercial Banking
FIN 6346	Credit Analysis

*Note: Students are required to have taken a basic accounting course or equivalent by the end of the first semester as prerequisite or co-requisite for the program.

The minimum passing grade for any FIN 6000 level courses is "C". MSF students must maintain an overall grade point average (GPA) of 3.0.

For more information, contact the program manager (305) 348-4198.

Finance Concentration in the Ph.D. Program

All students are required to complete a minimum of 16 courses. Those concentrating in Finance must take six courses or seminars in Finance (as described below), a two-course sequence in advanced economic theory, and a two-course sequence in either advanced econometrics or an equivalent sequence of courses in advanced statistics. With the advice and consent of the departmental Ph.D. committee, students also select other supporting coursework. The first year of study is regarded as "Tier I" in the Ph.D. program, and successful completion of this year of study is a prerequisite for enrollment in some of the more advanced courses.

Students are expected to maintain a GPA of 3.5 or better in the six departmental courses that comprise the Finance concentration. In addition, students are expected to maintain a GPA of 3.3 or better in all of their coursework. The program is a 75-credit program.

A Sample Course of Study

The sample program of study below describes the schedule for a typical student. Variations may be allowed for some students, and, of course, the requirements may be changed at the discretion of the Ph.D. Committee.

Year I – Fall Semester

FIN 7855	Financial Economics I**	3
FIN 7845	Statistical Methods in Finance I***	3
FIN 7808	Financial Theory I	3

Year I – Spring Semester

FIN 7856	Financial Economics II**	3
FIN 7846	Statistical Methods in Finance II***	3
FIN 7809	Financial Theory II	3

Year I – Summer Semester

MAN 7916	Empirical Project	6

Year II – Fall Semester

FIN 7819	Financial Theory III	3
Finance Elective		3
Finance Elective		3

Year II – Spring Semester

Finance Elective		3
Finance Elective		3
Finance Elective		3

Year II – Summer Semester

MAN 7916	Empirical Project	6

Year III – Fall Semester

FIN 7981	Dissertation Preparation Prep	9

Year III – Spring Semester

FIN 7980	Ph.D. Dissertation	3

Year III – Summer Semester

FIN 7980	Ph.D. Dissertation	3

Year IV – Fall Semester

FIN 7980	Ph.D. Dissertation	3

Year IV – Spring Semester

FIN 7980	Ph.D. Dissertation	3

Year IV – Summer Semester

FIN 7980	Ph.D. Dissertation	6

** The sequence in Micro-Economic Theory, ECO 7115 and ECO 7116, may be substituted for this sequence in Financial Economics.

***The sequence in Econometrics, ECO 7424 and ECO 7425, may be substituted for this sequence in Statistical Methods in Finance.

Summer Research Projects

Students are required to complete research projects during the summer semesters following their first and second years in the program. One faculty member will serve as an advisor for all research projects in a given summer.

For both summer projects, students must submit a written paper and make a presentation to the faculty. Ideally, these papers should be of sufficient quality to merit their submission to a conference or a journal. Students must satisfy all university and college dissertation requirements.

Master of Science in Finance/Master of Business Administration Joint Degree Pathway

The Department of Finance and the MBA program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University have a joint degree pathway culminating in both a Master of Business Administration degree (MBA), and a Master of Science in Finance degree (Fast Track-MSF). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway uses existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree pathway. Candidates deciding to pursue the joint degree pathway after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree will not be accepted from candidates who have already completed either degree. MBA or Fast Track-MSF students must apply and be admitted by no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. The two degrees will have four-five common courses. Courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSF courses transferred to meet MBA elective credit must be 6000 level courses approved by the University Curriculum Committee. Directors of the MBA and MSF degree programs may adjust these exact course requirements as a result of future changes to the MBA or MSF curriculums.

3.1 Joint Flex MBA/MSF Degree Pathway

To obtain MSF/MBA through the Flex program, students must complete the following courses for a total of 66 credit hours as follows:

In the Flex MBA program (33 credit hours):

ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Analysis for Decision Making	3

Professional Development Seminars (PDS) I, II, III

In the MSF program (33 credit hours):

FIN 6456	Quantitative Methods in Financial Analysis	3
FIN 6515	Securities Analysis	3
FIN 6246	Financial Markets and Institutions	3
FIN 6537	Financial Futures and Fixed Income Investments	3
FIN 6487	Financial Risk Management	3
FIN 6644	Global Financial Strategy	3
FIN 6525	Portfolio Management	3
FIN 6465	Financial Planning and Statement Analysis	3

One of the following specialty tracks, in addition to the core MSF courses is required for the MSF degree:

Financial Management

FIN 6326	Commercial Banking	3
FIN 6436	Capital Budgeting and Long Term Resource Allocation	3
FIN 6425	Financial Management Policies	3

Investments

FIN 6425	Financial Management Policies	3
FIN 6489	Advanced Financial Risk Management	3
FIN 6517	Advanced Investments	3

International Banking

FIN 6326	Commercial Banking	3
FIN 6625	International Bank Management	3
FIN 6346	Credit Analysis	3

3.2. Joint International IMBA/MSF Degree Pathway

To obtain MSF/MBA through the International program, students must complete the following courses for a total of 72 credit hours as follows:

In the IMBA program (42 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6444	Global Financial Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6608	International Business	3

MAN 6703	Colloquium in Managing Organizational Ethics	3
MAN 6830	Organizational Information Systems	3
MAN 6679	Master's Project in International Business	3
MAR 6805	Marketing Management in the Global Environment	3
QMB 6357	Business Analysis for Decision Making	3
Professional Development Seminars (PDS) I, II, III		3

In the MSF program (30 credit hours):

FIN 6456	Quantitative Methods in Financial Analysis	3
FIN 6515	Securities Analysis	3
FIN 6246	Financial Markets and Institutions	3
FIN 6537	Financial Futures and Fixed Income Investments	3
FIN 6487	Financial Risk Management	3
FIN 6525	Portfolio Management	3
FIN 6465	Financial Planning and Statement Analysis	3

One of the following specialty tracks, in addition to the core MSF courses is required for the MSF degree:

Financial Management

FIN 6326	Commercial Banking	3
FIN 6436	Capital Budgeting and Long Term Resource Allocation	3
FIN 6425	Financial Management Policies	3

Investments

FIN 6425	Financial Management Policies	3
FIN 6489	Advanced Financial Risk Management	3
FIN 6517	Advanced Investments	3

International Banking

FIN 6326	Commercial Banking	3
FIN 6625	International Bank Management	3
FIN 6346	Credit Analysis	3

Notes:

[1] Requirements for the CMBA depend on track chosen. If a candidate has elected the option of a specialization, the number of credit hours required and shared for the Flex will be used. Otherwise, the pathway for a joint degree is not available with the MSF.

[2] The Executive MBA, Professional MBA, and Professional MBA in Healthcare Management programs are not included as an option for the joint degree pathway.

[3]Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate.

For additional information, contact the MBA office at (305) 348-0148 or the Master of Science in Finance office at (305) 348-4198.

Master of Science in Finance/Master of Science in International Real Estate Joint Degree Pathway

The Department of Finance and the Alvah H. Chapman Jr. Graduate School of Business at Florida International University have a joint degree pathway culminating in both a Master of Science in Finance (MSF), and a Master of Science in International Real Estate (MSIRE) degree. Under the joint degree pathway, a student can obtain both degrees in less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option. Students deciding to pursue the joint degree pathway after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree. MSF or MSIRE students must apply and be admitted prior to or concurrent with the last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. To obtain the MSIRE degree, the student will be required to take ten (10) courses totaling thirty (30) credit hours. This includes the five real estate courses in the MSIRE core, three finance courses in the MSIRE core, plus one real estate (REE prefix) elective and one finance (FIN prefix) elective for a total of 30 credit hours. The Faculty Director of the MSIRE may substitute other suitable courses for these electives at the request of the student. The eight core REE and FIN courses include REE 6045 Real Estate Markets, Institutions, and Practices, REE 6209 Real Estate Finance, REE 6305 Real Estate Investments, REE 6435 Real Estate Law, REE Seminar in International Real Estate, FIN 6406 Corporate Finance, FIN 6644 Global Financial Strategy, and FIN 6246 Financial Markets and Institutions.
4. To obtain the MSF degree, the student will have to fulfill all MSF program requirements, including eleven finance courses totaling thirty-three (33) credit hours, eight courses of which are considered part of the core curriculum. The eight core MSF courses are FIN 6406 Corporate Finance, FIN 6644 Global Financial Strategy, FIN 6246 Financial Markets and Institutions, FIN 6456 Quantitative Methods in Financial Analysis, FIN 6515 Security Analysis, FIN 6537 Financial Futures and Fixed Income Investment, and FIN 6487 Financial Risk Management. The remaining three courses must be taken in one of three specializations approved by the faculty and which include three courses in Corporate Finance, three in Investments, or three in Commercial and International Banking.
5. The three finance courses in the MSIRE core curriculum correspond to three of the courses in the core MSF program. Therefore, students pursuing the joint degree program will be credited for these courses in both programs. In addition, one Real Estate course in the MSIRE curriculum may be counted as one of the three courses required by the MSF specialization. The two degrees then will potentially have 4 common courses.

6. A minimum of seventeen (17) courses will be required to earn the dual degrees: four common courses, six specific to the MSIRE program, and seven specific to the MSF program. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. The Faculty Directors of the MSIRE and MSF degree programs may adjust these exact course requirements as a result of future changes to the MSIRE or MSF curriculums, subject to the approval of the Dean of the Chapman Graduate School.
7. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate.
8. With the joint degree program students will take a total of 51 credit hours to get both degrees. Without the joint degree pathway students would need to take 63 credit hours to get both degrees.

Master of Science in Finance/Master in International Business Joint Degree Pathway

The Department of Finance and the MIB programs in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University are proposing a joint degree pathway culminating in both a Master in International Business (MIB), and a Master of Science in Finance. Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree pathway. Students deciding to pursue the joint degree pathway after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree will not be accepted from candidates who have already completed either degree. MIB or MSF students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. The two degrees will have four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSF courses transferred to meet MIB elective credit must be 6000 level courses approved by the University Curriculum Committee. Directors of the MSF and MIB degree programs may adjust these exact course requirements as a result of future changes to the MSF or MIB curriculums.

   3.1. **To obtain the MIB degree,** MSF students who have finished their core courses, must complete a total of 36 credit hours as follows:

   In the MIB program (24 credits hours):

MAN 6617	Managing Global Production and Technology	3
MAR 6158	International Marketing	3
BUL 6850	International Business Law	3
MAN 6635	Global Strategy and Business Models	3
MAN 6679	Master's Project in International Business	3
MAN 6601	Global Management Skills	3
MAN 6606	Fundamentals of International Business	3
MAN 6930A	Master's Seminar in Management 1	1
MAN 6930B	Master's Seminar in Management 2	1
MAN 6930C	Master's Seminar in Management 3	1

   From the MSF program (12 credit hours) will be transferred as follows:

FIN 6644	Global Financial Strategy	3
FIN 6465	Financial Planning and Statements Analysis	3
MAN 6606	Fundamentals of International Business	3
FIN 6XXX	Elective	3
FIN 6XXX	Elective	3

   3.2. **To obtain the MSF degree,** MIB students who have finished their core courses, must complete a total of 33 credits hours as follows:

   From the MSF program (21 credit hours):

FIN 6406	Corporate Finance	3
FIN 6456	Quantitative Method in Financial Analysis	3
FIN 6246	Financial Markets and Institution	3
FIN 6515	Securities Analysis	3
FIN 6525	Portfolio Management	3
FIN 6465	Financial Future and Fixed Income Investments	3
FIN 6487	Financial Risk Management	3

   From the MIB program (12 credit hours) will be transferred as follows:

FIN 6644	Global Financial Strategy	3
ACG 6255	International Accounting	3
FIN 6XXX	Finance Elective 1	3
FIN 6XXX	Finance Elective 2	3

4. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate.
5. With the joint degree pathway students will take a total of 57 credit hours to get both degrees. Without the joint degree pathway students will need to take 69 credit hours to get both degrees. Thus, MIB students who have taken twelve credits of MSF common courses may obtain an MSF degree with an additional 21 credits. MSF students who have taken twelve credits of the MIB classes, may obtain an MIB degree with an additional 24 credits.

Graduate Certificate in Financial Analytics

The purpose of the certificate is to provide students with an understanding of the application of statistical tools and

methods to large financial data sets in order to make sound financial and investment decisions. It focuses on analytic techniques and select software tools used in decision making and combines domain knowledge of finance with data analysis skills. The certificate will be offered to only degree seeking students.

Program of Study (15):

FIN 6406	Corporate Finance
FIN 6525	Portfolio Management
FIN 6487	Financial Risk Management
FIN 6466	Financial Analytics
ISM 6136	Business Analytics Applications

Global Leadership and Management

Ravi Gajendran, *Associate Professor, Department Chair***,** *and Alvah Chapman Eminent Scholar Endowment Chair*
Sungu Armagan, *Associate Teaching Professor*
Brooke Buckman, *Assistant Teaching Professor*
Eric Cartaya, *Associate Teaching Professor*
Carolina Gomez, *Professor*
Nathan J. Hiller, *Professor, Executive Director, Center for Leadership, and Ingersoll-Rand Professor*
Kisha S. Jones, *Assistant Professor*
Chaitali Kapadia, *Assistant Professor*
Clifford Perry, *Teaching Professor*
Modesto A. Maidique, *Professor, and FIU President Emeritus*
Juan I. Sanchez, *Professor and Knight Ridder Byron Harless Eminent Scholar Chair in Management*
Hock-Peng Sin, Ph.D., *Associate Professor, Faculty Director for IMBA Program, and Alvah Chapman Eminent Scholar Endowment Chair*
Marc Weinstein, *Clinical Professor and Faculty Director, MS in Human Resource Management Program*

The Department of Global Leadership and Management includes an internationally-oriented and dedicated faculty with expertise in global management, leadership, human resource management, and organizational behavior.

Our curriculum is designed to prepare students for successful management careers in the global business arena and in a variety of organizations. Our graduates are armed with an understanding of the management discipline, a broad intellectual framework for managing in an evolving marketplace, and the ability to lead and work in today's global organizations.

Master of Science in Human Resource Management

Admission Requirements

To be eligible for admission to the Master of Science in Human Resource Management (MSHRM) program, applicants must demonstrate academic and professional preparedness. Admissions are based on a portfolio approach:

- GPA in upper divisions course work (3.0 preferred)
- Resume outlining professional experience*
- GMAT or GRE**
- Statement of Purpose
- Two letters of recommendation

Interviews may be conducted upon submission of complete portfolio

*Five years of professional full-time work experience of which three years are in human resources is preferred. If no work experience, a graduate degree from an accredited university with a 3.0 GPA may be considered

**GMAT/GRE may be waived for applicants with strong academic credentials.

Graduate student applicants whose studies were completed in a non-English speaking country must demonstrate proficiency in English by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on paper-based version) or 6.5 overall of the International English Language Testing System (IELTS).

The Master of Science in Human Resource Management is designed for professionals and executives in the field of human resource management, as well as for college graduates interested in a career in the field. The MSHRM is a lock-step program designed to be completed in 12 months. A part-time 24-month option is also available. Students can choose from two delivery formats, online or on campus with classes meeting only on Saturdays. The students will also have extensive interaction with an Advisory Board, which is made up of leading HR professionals from the South Florida area.

To complete the program successfully, students must maintain a "B" average (3.0 GPA). For further information, please contact the program manager at (305) 348-8433, or visit our web site at **http://mshrm.fiu.edu**.

The following courses are required for the MSHRM degree:

Core Courses

MAN 6297	Labor Issues and Conflict Management	3
MAN 6626	International Human Resource Management	3
MAN 6347	Performance and Talent Management	3
MAN 6157	Wellness Management	3
MAN 6316	Human Resource Analytics	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6385	Human Resource Strategy and Planning	3
MAN 6365	Staffing Organizations	3
MAN 6336	Reward Systems Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6327	High Involvement Human Resource Management	3
MAN 6317	Critical Thinking in Human Resource Management	3

Required Professional Development Course:

GEB 6507	Finance for HR Professionals	1

Required to select one (1) of the following Professional Development Seminar courses:

MAN 6356	Professional Development Seminar I	1
MAN 6946	Human Resource Management Internship	1-3

Doctoral Studies Program

The Doctoral Studies Program in Business Administration is a selective one leading to the Ph.D. degree. The program emphasizes the development of research and teaching skills to ensure the graduates acquire the credentials necessary for placement in leading institutions.

Each doctoral student's program of study is individually tailored to mesh faculty and student interests and to maintain a high level of interaction between the students and faculty.

The program generally requires three to four years of full-time study, including approximately one to one-and-one-half years of dissertation research. A set of core, or "tool area" business courses, geared toward establishing

the student's breadth of knowledge, is required of all doctoral candidates during the first year of study. The second year of coursework focuses on a particular area of concentration to develop the student's depth knowledge in a specific discipline. The Department of Global Leadership and Management and the Department of International Business jointly offer a Ph.D. concentration in Management. Students may focus their studies on Strategic Management, Entrepreneurship, International Business and International Management, Human Resource Management, Organizational Behavior, and Hospitality Management.
The Ph.D. program is a 75-credit program.

Required Courses (3 courses, 9 credits)

MAN 7275	Organizational Behavior Management	3
MAN 7895	Seminar in Management	3
	and either	
MAN 7616	Multinational Firm Global Strategy	3
	or	
MAN 7718	Analysis of Corporate Policy	3

Content Courses: (Minimum of 3 courses, total 9 credits)

MAN 7146	Leadership	3
MAN 7147	Leadership II	3
MAN 7148	Intuition in Management	3
MAN 7206	Organizational Analysis	3
MAN 7207	Theories of Organization	3
MAN 7235	Management Philosophy and Strategy	3
MAN 7305	Human Resource Management	3
MAN 7412	Labor-Management Topics	3
MAN 7609	Comparative Management	3
MAN 7620	International Business Operations I	3
MAN 7621	International Business Operations II	3

Required Research Methods Courses: (4 courses, 12 credits)

MAN 7155	Fundamentals of Behavioral Research	3
MAN 7910	Advanced Management Research	3
MAN 7640	International Business Research Methods	3
	and	
QMB 7910	Quantitative Research Methods in Business	3
	Or	
GEB 7911	Quantitative Research Methods in Business	3
	Or	
MAN 7984	Doctoral Research Seminar: Development and Utilization of Large Scale Datasets	3

Minimum of 4 Statistical Courses, 12 credits (not listed here)

Research Project Courses

MAN 7916	Doctoral Research Project in Business	6
MAN 7981	Ph.D. Dissertation Prep	9
MAN 7980	Ph.D. Dissertation	18

Master of Science in Human Resource Management/Master of Business Administration Joint Degree Pathway

The Department of Global Leadership and Management and the MBA program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University have a joint degree program culminating in both a Master of Business Administration degree (MBA), and a Master of Science in Human Resource Management (MSHRM). Under the joint degree program, a student can obtain both degrees in less time than it would take to obtain both degrees if pursued consecutively. The joint degree program will use existing faculty, courses, and resources. Important criteria relating to the joint degree program are as follows:
Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must submit applications to both programs and notify each Program Manager of desire to pursue the joint degree. Candidates deciding to pursue the joint degree option after having been admitted to one program, must submit a second application to the other program and notify each Program Manager of desire to pursue the joint degree pathway option

1. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree. MBA or MSHRM students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
2. Candidates must satisfy all requirements for each degree. The two degrees will have two - four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSHRM courses transferred to meet MBA elective credit must be 6000 level courses approved by the University Curriculum Committee. Directors of the MBA and MSHRM degree programs may adjust these exact course requirements as a result of future changes to the MBA or MSHRM curriculums.

3.1 Joint Flex MBA/MSHRM Degree Pathway

3.1.1. To obtain the MSHRM degree, Flex MBA students must complete the following courses for a total of 68 credit hours as follows:

In the Flex MBA program (36 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3

Professional Development Seminars (PDS)

In the MSHRM program (32 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6626	International Human Resource Management	3
		3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge	

	Management	3
MAN 6316	Human Resource Analytics	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

3.1.2. To obtain the Flex MBA, MSHRM degree students must complete a total of 68 credits as follows:

In the MSHRM program (38 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6327	High involvement Human Resource Management	3
MAN 6626	International Human Resource Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6385	Human Resource Strategy and Planning	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

In the Flex MBA program (30 credits hours):

ACG 6255	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

3.2. Joint International MBA/MSHRM Degree Pathway

3.2.1. To obtain the MSHRM degree, international MBA (IMBA) students must complete the following courses for a total of 77 credit hours as follows:

In the IMBA program (45 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6444	Global Financial Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6703	Colloquium in Managing Organizational Ethics	3
MAN 6830	Organizational Information Systems	3
MAN 6679	Master's Project in International Business	3
MAR 6805	Marketing Management in the Global Environment	3
QMB 6357	Business Statistical Analysis	3
Professional Development seminars (PDS) I, II, III		2

In the MSHRM program (32 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6626	International Human Resource Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

3.2.2. To obtain the International MBA (IMBA), MSHRM degree students must complete a total of 77 credits as follows:

In the MSHRM program (38 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6327	High Involvement Human Resource Management	3
MAN 6626	International Human Resource Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

In the IMBA program (39 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6444	Global Financial Strategy	3
MAN 6608	International Business	3
MAN 6830	Organizational Information Systems	3
MAN 6703	Colloquium in Managing Organizational Ethics	3
MAN 6679	Master's Project	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development seminars (PDS) I, II, III		2

3.3. **Joint Professional MBA/MSHRM Degree Pathway**

3.3.1. To obtain the MSHRM degree, Professional MBA (PMBA) students must complete the following courses for a total of 74 credit hours as follows:

In the PMBA program (42 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financing Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
FIN 6644	Global Financial Strategy	3
MAN 6608	International Business	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

In the MSHRM program (32 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6327	High involvement Human Resource Management	3
MAN 6626	International Human Resource 3 Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6385	Human Resource Strategy and Planning	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

3.3.2. To obtain the Professional MBA (PMBA). MSHRM degree students must complete a total of 74 credits as follows:

In the MSHRM program (38 credit hours):

MAN 6157	Wellness Management	3
MAN 6403	Employment Law and Human Resource Management	3
MAN 6327	High Involvement Human Resource Management	3
MAN 6626	International Human Resource Management	3
MAN 6297	Labor Issues and Conflict Management	3
MAN 6359	Human Resource Knowledge Management	3
MAN 6316	Human Resource Analytics	3
MAN 6347	Performance and Talent Management	3
MAN 6336	Reward Systems Management	3
MAN 6365	Staffing Organizations	3
MAN 6317	Critical Thinking in Human Resource Management	3
Professional Development Seminars (PDS) I, II, III		2

In the PMBA program *(*36 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financing Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
FIN 6644	Global Financial Strategy	3
MAN 6608	International Business	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

Notes:

[1] Requirements for the Corporate MBA depend on track chosen. If a candidate has elected the option of a specialization, the requirements and shared/common courses for the Flex MBA will be used. Otherwise, the requirements and shared/common courses for the PMBA will be used.

[2] The Executive MBA and Professional MBA in Healthcare Management programs are not included as an option for the joint degree pathway.

[3] Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all degree requirements for the first program as if the student had never been a joint degree pathway candidate.

For additional information, contact the MBA office at (305) 348-0148 or the Master of Science in Human Resource Management office at (305) 348-5945.

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Mission

The mission of the Department of Information Systems and Business Analytics (ISBA) is to provide students with the knowledge and ability to design, develop, implement, and use information systems that allow organizations to effectively solve problems within organizations; and to provide students with the knowledge and ability to analyze and use data for decision-making within organizations. The department offers courses in business analytics, business statistics, health informatics management information systems, operations management and project management, at both the graduate and undergraduate levels.

Students in information systems related graduate programs learn the intellectual frameworks and methods used in areas including business analytics, business process design, database management, data warehousing, global electronic commerce, enterprise-wide information systems, information security management, project management, and systems analysis and design (including object-oriented applications).

The Department offers a Master of Science in Health Informatics and Analytics (MSHIA), Master of Science in Information Systems (MSIS), and Management Information Systems (MIS) concentration within the College of Business' Ph.D. in Business Administration program.

Master of Science in Health Informatics and Analytics (MSHIA)

Our Master of Science in Health Informatics and Analytics is a fifteen month graduate degree program designed for information systems professionals, physicians, nurses, other clinical personnel and healthcare managers who want to increase their knowledge of health information technology and management of the complex social and organizational issues surrounding the increased emphasis on managing healthcare quality, efficiency and outcomes through information systems.

Health Informatics integrates the domains of information systems, such as data analytics, with the organizational domains of healthcare, including, the legal and policy environment, delivery processes, as well as leadership and management principles. The goal of this program is to educate effective developers, users, and managers of health information systems. Students will explore the design and use of the health information systems needed by hospital and system executives, government planners, public health officials, and other healthcare professionals. Courses will have both an academic and practical perspective, exposing students to both theoretical approaches and real-world application.

Admission Requirements

To be eligible for admission to the MSHIA degree program in the Chapman School, prospective students must:

1. Hold a U.S. Bachelor's degree or equivalent from an accredited college or university.
2. Have a minimum of two (2) years professional experience in healthcare and/or information technology fields directly related to the program including:
    - IT professionals
    - Physicians
    - Nurses
    - Pharmacists
    - Healthcare attorneys
    - Healthcare third-party payer professionals
    - Health information managers

- Other healthcare industry professionals with experience in using health informatics systems

OR have already completed a minimum of nine (9) graduate credit hours in a directly related field (e.g., Health Administration, Health Information Systems, Informatics, Information Systems) from an accredited university with a minimum of a 3.25 grade point average (GPA) or higher. Students may petition for up to six (6) hours of waiver for equivalent classes.
OR if the applicant already completed the BBA in Information Systems or Business Analytics or related undergraduate degree at FIU, or similarly accredited institution, with a minimum upper division grade point average (GPA) of 3.25.

Promising candidates not possessing the above experience or educational background may be directed to pre-requisite courses, particularly in the health informatics or health information systems domain to facilitate program preparation and success.

3. Have a minimum upper division grade point average (GPA) of 3.0.
4. Provide a resume entailing, at minimum, past higher education degrees and work experience
5. Provide a personal statement on the motivation to attend the program, including personal and career goals.
6. Graduate student applicants whose studies were completed outside of the US must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on paper-based version), or 213 on the computer-based TOEFL, or 6.5 overall of the International English Language Testing System (IELTS).
7. If applicant is a student in the FIU Graduate Certificate in Healthcare Management or FIU Graduate Certificate in Health Informatics and Analytics programs and has completed the first 12 credits with a GPA of 3.25 or higher, he or she may be eligible for admission to the MSHIA program. Appropriate courses from the Certificate program may be transferred into the MSHIA degree program.
8. Be in good standing with all previously-attended colleges and universities.

Admissions at the graduate level are competitive and meeting minimum program requirements does not guarantee admission.

Graduation Requirements

To graduate with the Master's degree, a student must:

1. Satisfy all University requirements for a Master's degree.
2. Meet the 37 hours required in the M.S. in Health Informatics and Analytics "Program of Study."
3. Earn an overall "B" (3.0) cumulative Grade Point Average.
4. No courses in which a graduate student earns a grade "below C" may be counted towards any Master's degree program in the Chapman School.
5. Complete online residency MSHIA Orientation program requirements offered through the MSHIA Program as an entry point into the program
6. Complete 3 online residencies (noncredit) offered through the College of Business.
   - Residency I –Business Career Management.
   - Residency II –Presentation Skills
   - Residency III –Six Sigma Yellow Belt.

Residencies may be changed at the department's Discretion

Program Format

Students will complete the program in 14 months. Students will complete this program as a cohort. The program will be offered online. Two courses are generally taken each eight-week term within the semester.
The students will be considered full time as within a "semester", if they complete 12 graduate credit hours.
The MSHIA degree consists of 13 courses.

Required Courses

The following eleven courses are required for the MSHIA degree:

HIM 6267	Foundations of Health Informatics & Analytics Administration	1
HIM 6682	Quality and Outcomes Analytics	3
HIM 6865	Healthcare Database Systems	3
HIM 6527	Healthcare Information Security and Privacy	3
HIM 6628	Health Data Visualization	3
HIM 5065	Introduction to Health and Health Informatics	3
QMB 6357	Business Statistical Analysis	3
HIM 6685	Clinical Information Systems	3
HIM 6124	Technical and Data Architectures and Standards for Health Care	3
HIM 6019	Legal and Ethical Aspects of Healthcare	3
HIM 6517	Healthcare Project Management	3

One of the following courses is required for the MSHIA degree:

HIM 6125	Healthcare Informatics and Analytics Capstone	3
HIM 6858	Health Informatics/Analytics Practicum (proposed by student & subject to departmental approval)	3

One of the following courses (selected at the Department's discretion for each cohort) is required for the MSHIA degree:

HIM 6694	Consumer Health Informatics	3
HIM 6937	Special Topics	3

Students must complete mandatory, noncredit residency requirements for graduation – orientation program and 3 online residencies offered through the College of Business.

For more information, please contact the Program Manager at **mshia@fiu.edu** or (305) 348-0594.

Master of Science in Information System (MSIS)

Our Master of Science in Information Systems (MSIS) is the only program of its kind designed with strategic direction from the top South Florida Chief Information Officers (CIOs) ensuring our program delivers knowledge critical to the success of future CIOs.

To better prepare students for senior managerial and executive roles, we offer an integrated curriculum that combines technical and IS/IT management skills, including

information systems strategy and governance, database management, systems analysis and design, project management, information security and business analytics. This approach enables an understanding of the complexities of today's most critical business systems and an ability to manage IT resources to produce the best results for the organization.

1. Students complete the program in 12 to 14 months (with classes held on Saturdays).
2. Students improve soft skills through numerous professional development seminars focused on leadership, team-building skills, oral and written presentation skills, and career preparation, while gaining experience in sought after technology skills. Additionally, students build a future network of highly qualified professionals and peers within the IS/IT field.

Admission Requirements

To be eligible for admission to the MSIS degree program in the Chapman School, prospective students must:

1. Hold a 4-year U.S. equivalent Bachelor's degree from an accredited college or university.
2. Submit a competitive score on the Graduate Management Admission Test (GMAT) or Graduate Record Exam (GRE). Waiver of the requirement could be considered at the Department's discretion if either a) the applicant has a minimum of four (4) years of professional experience directly related to the program or b) if the applicant already completed a graduate degree in a directly related field from an accredited university with a minimum of a 3.0 cumulative grade point average (GPA), or is entering a business master's program under a special agreement for admissions with specific foreign universities, or c) if the applicant already completed the BBA in Information Systems or Business Analytics or related undergraduate degree at FIU, or similarly accredited institution, with a minimum upper division grade point average (GPA) of 3.25.
3. Have a minimum upper division grade point average (GPA) of 3.0.
4. Provide a personal statement on the motivation to attend the program, including personal and career goals.
5. Graduate student applicants whose studies were completed outside of the US must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on paper-based version) or 6.5 overall of the International English Language Testing System (IELTS).
6. If applicant is a student in the FIU Graduate Certificate in Business Analytics program or in the FIU Graduate Certificate in Business Cybersecurity program, and has completed the first 12 credits with a GPA of 3.25 or higher, he or she may be eligible for admission to the MSIS degree program. Appropriate courses from the Certificate program may be transferred into the MSIS degree program.
7. Be in good standing with all previously attended colleges and universities.

Admissions at the graduate level are competitive. Meeting minimum program requirements does not guarantee admission.

To complete the MSIS degree, students need to successfully complete all 10, three-credit hour courses for a total of 30 credit-hours, maintain a B average (3.0 GPA), complete mandatory Professional Development Seminars, and satisfy all University requirements for a Master's degree.

Core Courses

The following seven core courses are required for the MSIS degree:

ISM 6205	Database Management	3
ISM 6316	Project Management	3
ISM 6106	Systems Analysis	3
ISM 6128	Business Process Design	3
ISM 6307	Management of the Information Systems Function	3
ISM 6338	Information Systems Strategy and Governance	3
ISM 6328	Information Security Management	3

Elective Courses

To complete the MSIS degree students may take three courses selected at the Department's discretion for each cohort from the list of elective courses below. One of these electives must have a business application development component.

ISM 6024	Managing Distributed Architecture	3
ISM 6136	Business Analytics Applications	3
ISM 6156	Enterprise Information Systems	3
ISM 6208	Data Warehousing	3
ISM 6251	Emerging Information Technologies	3
ISM 6489	E-business and Blockchain Applications	3
ISM 6930	Special Topics in Management Information Systems	3
ISM 6942	MIS Internship	3
QMB 6357	Business Statistical Analysis	3

Professional Development Seminars I, II, III

Optional Elective

ISM 6942	MIS Internship	1-3

Students who fail more than one class may be dismissed from the MSIS degree program.

Professional Development Seminars

Seminars will focus on soft skills such as leadership, team building, oral presentation, and career exploration. There will be team-building activities, including classroom exercises in group decision-making and problem-solving. Challenging outdoor exercises help students build the skills they will need to work together in the program and to succeed in today's team-based organizations. Students will also work with a presentation skills coach to improve the communication skills that are critical to managerial success.

Professional Development Seminars I, II, and III will focus on improving student's soft skills. Seminars will be mandatory, non-credit. Topics of Professional Development Seminars are subject to change based on industry trends and demands.

For additional information, please visit **http://msis.fiu.edu** or contact the Program Manager at (305) 348-0594 or **msis@fiu.edu**.

Program Format

Students will complete the program in 12 - 14 months with classes on Saturdays. Students will complete this program as a cohort. The program offers almost all classes in 8-week terms, with two to three courses each term. Students will be considered full time during a “semester”, or two terms in the cohort, if they complete at least 12 graduate credit hours.

Master of Science in Information Systems / Business Analytics Track

The Business Analytics Track of the Master of Science in Information Systems degree prepares students for careers such as business analysts, data analysts or business analytics managers. The Business Analytics Track provides students with a clear designation of their concentration in the field. The Business Analytics Track consists of 11 courses (33 credit hours) within the MSIS degree.

Required Core Courses
Students are required to complete all seven of the following core courses (21 credit hours)

ISM 6205	Database Management	3
ISM 6316	Project Management	3
ISM 6106	Systems Analysis	3
ISM 6128	Business Process Design	3
ISM 6307	Management of the Information Systems Function	3
ISM 6338	Information Systems Strategy and Governance	3
ISM 6328	Information Security Management	3

Required Track Courses
Students are required to compete all four of the following courses in the field of business analytics (12 credit hours)

QMB 6357	Business Statistical Analysis	3
ISM 6208	Data Warehousing	3
ISM 6136	Business Analytics Applications	3
ISM 6404	Business Data Visualization and Reporting	3

To complete the MSIS degree, Business Analytics Track, students need to successfully complete all 11, three credit-hour courses for a total of 33 credit-hours, maintain a B average (3.0 GPA), complete mandatory professional development seminars, and satisfy all University requirements for a Master’s degree.

Master of Science in Information Systems/Business Cybersecurity Track

The Business Cybersecurity Track of the Master of Science in Information Systems degree prepares students for careers such as chief security officer, cybersecurity manager, cybersecurity analyst or privacy officer. The Business Cybersecurity Track provides students with a clear designation of their concentration in the field. The Business Cybersecurity Track requires students to complete 11 courses (33 credits) within the MSIS degree.

Required Core Courses
Students are required to complete all seven of the following core courses (21 credit hours).

ISM 6205	Database Management	3
ISM 6316	Project Management	3
ISM 6106	Systems Analysis	3
ISM 6128	Business Process Design	3
ISM 6307	Management of the Information Systems Function	3
ISM 6338	Information Systems Strategy and Governance	3
ISM 6328	Information Security Management	3

Required Track Courses
Students are required to compete all four of the following courses in the field of business cybersecurity (12 credit hours).

ISM 6575	Security Risk Management and Organizational Cyber Resilience	3
ISM 6325	Ethical Hacking for Business	3
ISM 6327	Protecting and Defending Business Digital Assets	3
ISM 6326	Information Security: Ethics, Regulation And Compliance	3

To complete the MSIS degree, Business Cybersecurity Track students need to successfully complete all 11, three-credit hour courses for a total of 33 credit-hours, maintain a B average (3.0 GPA), complete mandatory professional development seminars, and satisfy all University requirements for a Master’s degree.

Master of Science in Information Systems/Master of Business Administration Joint Degree Pathway

The Master of Science in Information Systems and the MBA program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University are offering a joint degree pathway culminating in both a Master of Business Administration (MBA), and a Master of Science in Information Systems degree (MSIS). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree pathway. Candidates deciding to pursue the joint degree pathway after having been admitted to one program will indicate this intention only on their second application.
2. Applications for the joint degree pathway will not be accepted from candidates who have already completed either degree. MBA or MSIS students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. The two degrees will have two – four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSIS courses transferred to meet MBA elective credit must be 6000 level courses approved by the University Curriculum Committee. Directors of the MBA and MSIS degree programs may adjust these exact course requirements as a result of future changes to the MBA or MSIS curriculums.

3.1 Joint Professional MBA/MSIS Degree Pathway

To obtain the MSIS/MBA degree through the Professional MBA program, students must complete the following courses for a total of 63 credit hours if they choose the MSIS degree or 66 credit hours if they choose the MSIS in Business Analytics track degree or the MSIS in Business Cybersecurity track degree:

In the Professional MBA Program (33 credit hours)

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting and Analysis	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
ISM 6021	Management of Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
QMB 6357	Business Statistical Analysis	3
One elective course in International Business		3
One elective in legal/regulatory issues		3

In the MSIS program (30 credit hours):

ISM 6106	Systems Analysis	3
ISM 6205	Database Management	3
ISM 6307	Management of the Information Systems Function	3
ISM 6208	Data Warehousing	3
ISM 6128	Business Process Design	3
ISM 6328	Information Security Management	3
ISM 6338	Information Systems Strategy and Governance	3
ISM 6316	Project Management	3
ISM 6156	Enterprise Information Systems	3
ISM 6489	E-business & Blockchain Applications	3

Professional Development Seminars (PDS) I, II, Ill

In the MSIS in Business Analytics track program (33 credit hours):

ISM 6106	Systems Analysis & Design	3
ISM 6205	Database Management	3
ISM 6307	Management of the Information Systems Function	3
ISM 6128	Business Process Design	3
ISM 6328	Information Security Management	3
ISM 6338	Information Systems Strategy & Governance	3
ISM 6316	Project Management	3
QMB 6357	Business Statistical Analysis	3
ISM 6208	Data Warehousing	3
ISM 6136	Business Analytics Applications	3
ISM 6404	Business Data Visualization & Reporting	3

Professional Development Seminars (PDS) I, II, Ill

In the MSIS in Business Cybersecurity track program (33 credit hours):

ISM 6106	Systems Analysis & Design	3
ISM 6205	Database Management	3
ISM 6307	Management of the Information Systems Function	3
ISM 6128	Business Process Design	3
ISM 6328	Information Security Management	3
ISM 6338	Information Systems Strategy & Governance	3
ISM 6316	Project Management	3
ISM 6325	Ethical Hacking for Business	3
ISM 6326	Information Security: Ethics, Regulation And Compliance	3
ISM 6327	Protecting & Defending Business Digital Assets	3
ISM 6575	Security Risk Management & Organizational Cyber Resilience	3

Professional Development Seminars (PDS) I, II, Ill

3.2. Joint International MBA/MSIS Degree Pathway

To obtain the MSIS/MBA degree through the International MBA program, students must complete the following courses for a total of 69 credit hours if they choose the MSIS program or 72 credit hours if they choose the MSIS in Business Analytics track program or the MSIS in Business Cybersecurity track program:

In the IMBA program (39 credit hours):

ACG 6026	6026 Accounting for Managers	3
ACG 6175	Financial Reporting and Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6644	Global Financial Strategy	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6608	International Business	3
MAN 6974	Master's Project in Management	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6616	Business Process & Operational Analysis	3
QMB 6357	Business Statistical Analysis	3

In the MSIS program (30 credit hours):

ISM 6106	Systems Analysis	3
ISM 6205	Database Management	3
ISM 6307	Management of the Information Systems Function	3
ISM 6208	Data Warehousing	3
ISM 6128	Business Process Design	3
ISM 6328	Information Security Management	3
ISM 6338	Information Systems Strategy and Governance	3
ISM 6316	Project Management	3
ISM 6156	Enterprise Information Systems	3
ISM 6489	E-business & Blockchain Applications	3

Professional Development Seminars (PDS) I, II, Ill

In the MSIS in Business Analytics track program (33 credit hours):

ISM 6106	Systems Analysis & Design	3
ISM 6205	Database Management	3
ISM 6307	Management of the Information Systems Function	3
ISM 6128	Business Process Design	3
ISM 6328	Information Security Management	3
ISM 6338	Information Systems Strategy & Governance	3
ISM 6316	Project Management	3
QMB 6357	Business Statistical Analysis	3
ISM 6208	Data Warehousing	3
ISM 6136	Business Analytics Applications	3
ISM 6404	Business Data Visualization &	

	Reporting	3

Professional Development Seminars (PDS) I, II, Ill

In the MSIS in Business Cybersecurity track program (33 credit hours):

ISM 6106	Systems Analysis & Design	3
ISM 6205	Database Management	3
ISM 6307	Management of the Information Systems Function	3
ISM 6128	Business Process Design	3
ISM 6328	Information Security Management	3
ISM 6338	Information Systems Strategy & Governance	3
ISM 6316	Project Management	3
ISM 6325	Ethical Hacking for Business	3
ISM 6326	Information Security: Ethics, Regulation And Compliance	3
ISM 6327	Protecting & Defending Business Digital Assets	3
ISM 6575	Security Risk Management & Organizational Cyber Resilience	3

Professional Development Seminars (PDS) I, II, Ill

Notes:

[1] The Professional MBA for Executives and Professional MBA in Healthcare Management programs are not included as an option for the joint degree pathway.

[2] Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate.

For additional information, contact the MBA office at (305) 348-0148 or the MSIS Office at (305) 348-2830.

Master of Accounting/Master of Science in Information Systems Joint Degree Pathway

The School of Accounting and the MSIS program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University are proposing a joint degree pathway culminating in both a Master in Accounting (MACC) and a Master of Information Systems (MSIS). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on their initial application their intention to pursue the joint degree pathway.
2. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree.
3. Domestic undergraduate non-accounting degree holders; and international degree holders, regardless of major, will take the following courses, for a saving of 15 credits:
   - 24 credits at the 6000-level from the MSIS
   - 15 credits at the 5000-level from the MACC
   - 30 credits at the 6000-level from the MACC
4. Domestic undergraduate accounting degree holders from AACSB accredited universities may petition to waive the 5000-level MACC courses, saving an additional 15 credits.
5. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. Directors of the MACC and MSIS degree programs may adjust these exact course requirements as a result of future changes to the MACC or MSIS programs.
6. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first-degree program requirements as if the student had never been a joint degree pathway candidate.

Master of Science in Health Informatics and Analytics/Master of Business Administration in Healthcare Management (MSHIA/MBA-HM) Joint Degree Pathway

The Master of Science in Health Informatics and Analytics and the Professional MBA in Healthcare Management program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University are offering a joint degree pathway culminating in both a Master of Business Administration (MBA) in Healthcare Management and a Master of Science in Health Informatics and Analytics degree (MSHIA). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree pathway. Students deciding to pursue the joint degree pathway after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree. MBA in Healthcare Management or MSHIA students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. To obtain the MSHIA degree, the student will have to fulfill all the MSHIA program requirements. To obtain the MBA degree, the student will have to fulfill all the MBA program requirements. The two degrees will have four common, or overlapping, courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. Directors of the MBA and MSHIA degree programs may adjust these exact course requirements as a

result of future changes to the MBA or MSHIA curriculums.

3.1. To obtain the MSHIA degree, MBA in Healthcare Management students must complete a total of 24 credits as follows:

HIM 6682	Quality and Outcomes Analytics	3
ISM 6205	Database Management	3
ISM 6326	Information Security and Compliance	3
ISM 6136	Business Analytics Applications	3
HIM 6685	Clinical Information Systems	3
ISM 6305	Information Systems Planning	3
ISM 6316	Project Management	3
ISM 6128	Business Process Design	3

From the MBA in Healthcare Management program the following 12 credit hours will be transferred:

BUL 6810	Legal Environment of Business	3
MAN 6830	Organizational Information Systems	3
MAN 6245	Organizational Behavior	3
MAN 6097	Managerial Decision-Making in Health Economics	3

3.2. To obtain the MBA in Healthcare Management, MSHIA degree students must complete a total of 24 credits as follows:

MAN 6501	Operations Management	3
MAN 6098	Management of Healthcare Finance and Reimbursement	3
MAR 6805	Marketing Management in the Global Environment	3
ACG 6026	Accounting for Managers	3
BUL 6605	Healthcare Fraud and Abuse Law and Regulation	3
MAN 6726	Strategic Management	3
FIN 6406	Corporate Finance	3
ACG 6175	Financial Reporting and Analysis	3

From the MSHIA program the following 12 credit hours will be transferred:

HIM 5065	Introduction to Health and Health Informatics	3
HIM 6019	Legal and Ethical Aspects of Healthcare	3
QMB 6357	Business Statistical Analysis	3
MAN 6245	Organizational Behavior	3
	OR	
HIM 6694C	Consumer Health Informatics	3

4. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate. With the joint degree pathway students will take a total of 60 credit hours to get both degrees. Without the joint degree pathway students will need to take 78 credit hours to get both degrees. Thus, MBA in Healthcare Management students who have taken twelve credits of MSHIA common courses may obtain an MSHIA degree with an additional 24 credits. MSHIA students who have taken twelve credits of a MBA in Healthcare Management common courses may obtain an MBA in Healthcare Management degree with only 24 credits.

For additional information, contact the MBA office at (305) 348-3256 or the MSHIA Office at (305) 348- 0594.

Combined BBA in Business Analytics/ Master of Science in Information Systems- Business Analytics Track Degree Pathway (BA/MSIS-BA)

The combined Bachelor of Business Administration in Business Analytics/Master of Science in Information Systems- Business Analytics Track Degree Pathway (BA/MSIS-BA) is designed for outstanding undergraduate students interested in continuing studies beyond their baccalaureate degree. The pathway provides a strong base of knowledge and skills in business analytics, and at the same time accelerates completion of the Master of Science in Information Systems degree. Students may take advantage of the overlap of courses in the BA and MSIS – BA programs to receive their MSIS degree in a shorter period than might otherwise be possible.

A student admitted to the Degree Pathway will be considered to have undergraduate status until conferral of their BBA in Business Analytics degree. Upon conferral of their undergraduate degree, the student will be granted graduate status.

Admission Requirements

1. Students must be enrolled in the BBA in Business Analytics (BA) degree program.
2. Students must have completed at least 75, but no more than 90, credits of coursework.
3. Students must have completed ISM 4400 or equivalent with a B or better.
4. Student must have an overall (transfer and FIU) GPA of 3.34 or higher.
5. Students must have two letters of recommendation, with at least one from a faculty member of the FIU Department of Information Systems and Business Analytics.

General Requirements

1. Students must maintain a GPA of 3.0 or greater to remain in the Degree Pathway.
2. BBA in Business Analytics (BA) degree must be awarded before the Master of Science in Information Systems – Business Analytics Track degree.
3. No grade below “C” will be accepted in any course taken to satisfy graduate program requirements.
4. Grade requirements for the Master of Science Information Systems – Business Analytics Track apply to courses counted toward the Master of Science Information Systems – Business Analytics Track degree.
5. Up to 4 courses (12 credits) may be used in satisfying both the BBA in Business Analytics and Master of Science in Information Systems – Business Analytics Track degree requirements.
6. Students must fulfill the degree requirements of both the BBA in Business Analytics and Master of Science in Information Systems – Business Analytics Track degree programs, with all overlapping courses approved by both graduate program director and undergraduate advisors before students enroll in such courses.

Combined BBA in Information Systems/Business Information Security Track/Master of Science in Information Systems/ Business Cybersecurity Track Degree Pathway (BIS/MSIS-Cybersecurity)

The Combined Bachelor of BBA in Information Systems/Business Information Security Track/Master of Science in Information Systems/Business Cybersecurity Track Degree Pathway (BIS/MSIS-Cybersecurity) is designed for outstanding undergraduate students interested in continuing studies beyond their baccalaureate degree. The Degree Pathway provides a strong base of knowledge and skills in business cybersecurity, and at the same time accelerates completion of the Master of Science in Information Systems/Business Cybersecurity Track degree. Students may take advantage of the overlap of courses in the Bachelor of Business Administration in Information Systems/ Business Information Security Track and MSIS/Business Cybersecurity Track degree in a shorter period than might otherwise be possible.

A student admitted to the Degree Pathway will be considered to have undergraduate status until conferral of their BBA in IS/Business Information Security Track degree. Upon conferral of their undergraduate degree, the student will be granted graduate status.

Admission Requirements

1. Students must be enrolled in the BBA in Information Systems/ Business Information Security Track degree program.
2. Students must have completed at least 75, but no more than 90, credits of coursework.
3. Students must have completed ISM 4220 and ISM 4323 with a B or better.
4. Students must have an overall (transfer and FIU) GPA of 3.34 or higher.
5. Students must have two letters of recommendation, with at least one from a faculty member of the FIU department of Information Systems and Business Analytics.

General Requirements

1. Students must maintain a GPA of 3.0 or greater to remain in the Degree Pathway.
2. BBA in Information Systems/Business Information Security Track degree must be awarded before the Master of Science in Information Systems/Business Cybersecurity Track Degree.
3. No grade below “C” will be accepted in any course taken to satisfy graduate program requirements.
4. Grade requirements for the Master of Science in Information Systems/Business Cybersecurity Track apply to courses counted toward the Master of Science in Information Systems/ Business Cybersecurity Track degree.
5. Up to 4 courses (12 credits) may be used in satisfying both the BBA in Information Systems/Business Information Security Track and Master of Science in Information Systems/Business Cybersecurity Track degree requirements.
6. Students must fulfill the degree requirements of both the BBA in Information Systems/Business Information Security Track and Master of Science in Information Systems/Business Cybersecurity Track degree programs, with all overlapping courses approved by both graduate program director and undergraduate advisors before students enroll in such courses.

Doctorate of Medicine/ Master of Science in Health Informatics and Analytics (MD/MSHIA) Combined Degree Pathway

The Herbert Wertheim College of Medicine (HWCOM) and the Master of Science in Health Informatics and Analytics (MSHIA) program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University have a combined degree pathway culminating in both a Doctorate of Medicine (MD) and a Master of Science in Health Informatics (MSHIA). Under the combined degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. Important criteria relating to the joint degree pathway are as follows:

1. HWCOM Medical students in their third year of medical study may apply to the MSHIA program. Each college (College of Medicine and College of Business) will independently review and admit applicants to their programs. Only students admitted to both programs will enroll in classes in the combined program.
2. Combined degree pathway students will complete the first three years of coursework in the College of Medicine. Then, beginning in the fourth year, students in the combined pathway will interrupt their medical studies and begin classes for the MSHIA program. Classes in the MSHIA program will be taken during fall, spring and summer semesters of the fourth year. During this time students will complete 27 hours of course work in the MSHIA program. Ten credits taken in the medical school will count toward the 37 credits required for the MSHIA degree. At the beginning of the fifth year, students will recommence taking courses in the medical program. Students will graduate with both degrees at the end of the 5 years.
3. Students will be expected to complete a minimum of 37 credits for the MSHIA and 189 credits as well as all requirements for the MD degree. Twenty-seven of those credits will be taken in the College of Business, with ten HWCOM credits being accepted toward the MSHIA degree. There is no change in course requirements for the MD degree.
4. Students will apply for the combined MD/MSHIA pathway in the following manner: Medical students in the fall of their third year (prior to December 30) must be in good academic standing and must get approval from the Medical Student Evaluation and Promotions Committee (MSEPC), the Office of Student Affairs (OSA), and the Office of Academic Affairs (OAA), in order to apply for admission to the MSHIA program. Applications will be reviewed by the MSHIA program admissions committee. Applicants to the combined MD/MSHIA pathway will not be required to submit

standardized test scores; they must have a minimum GPA of 3.0.

5. Students begin taking classes in business in the fourth year. The entire fourth year is devoted to classes in the MSHIA program. There is also a mandatory requirement for MSHIA program virtual (online) residencies.

The curriculum in the MD/MSHIA pathway follows a prescribed course of study shown below. The proposed schedule is as follows. (HWCOM does not have semesters. Therefore, we have used Period designations.)

First Year Period 1 (MI) August to end of March: College of Medicine curriculum
Second Year Period 2 (M2) April to end of March: College of Medicine curriculum
Third Year Period 3 (M3) April to end of March: College of Medicine: all required clerkships
Fourth Year medical students start M4 period in April. Then, in August start the MSHIA courses.
Medical students must be counseled as to when to take USMLE Step I and USMLE Step 2 CK and CS, and which electives, selective or subinternship to engage in prior to taking a leave to pursue the MSHIA program.
The remainder of Year 4 then consists of MSHIA courses. That is, from August through end of June.

Fifth year- The MSHIA program ends the end of June. Medical students take the remainder of the 5th year, which is the M4 period in the medical school (July through April).

Medical students will be counseled as to which electives, selectives or subinternship to take prior to applying for residency in September of this fifth year.

The following courses are required for the MSHIA program.

HIM 6628	Healthcare Data Visualization	3
HIM 6865	Healthcare Database Systems	3
HIM 6682	Quality & Outcome Analytics	3
HIM 6685	Clinical Information Systems	3
HIM 6517	Healthcare Project Management	3
HIM 6124	Technical & Data Architectures & Standards for Health Care	3
HIM 6527	Healthcare Information Security & Privacy	3
HIM 6858	Health Informatics / Analytics Practicum	3

(proposed by student & subject to the approval of the department housing the MSHIA program, Information Systems and Business Analytics)

One of the following courses (selected at the Department's discretion for each cohort) is required for the MSHIA degree:

HIM 6694	Consumer Health Informatics	3
HIM 6937	Special Topics	3

MSHIA Virtual Residencies I, II and III.

Residencies are mandatory, professional development non-credit requirements (typically include virtual meetings and independent activities, for example Six Sigma)

Courses waived in MSHIA: 10 credits

HIM 5065	Intro. To Health & Informatics	3
HIM 6019	Legal & Ethical Aspects of Healthcare	3
HIM 6267	Foundations of Health Informatics & Analytics Administration	1
QMB 6357	Business Stat. Analysis	3

Credits accepted from HWCOM: 10 credits

MDR 7910	Research Scholarship	4
BMS 6880	Foundations of Clinical Epidemiology & Quantitative Research	2
BMS 6067	US Healthcare Delivery System	2
BMS 6820	Humanism and Medical Jurisprudence	1
BMS 6826	Ethical Foundations of Medicine	1

There are, therefore, 9 courses to be taken in the College of Business, for a total of 27 credits.

Students must earn a minimum GPA of 3.0 in the MSHIA program to be conferred with the MSHIA degree.

MIS Concentration in the Ph.D. Program

The Department of Information Systems and Business Analytics (ISBA) offers a Management Information Systems (MIS) concentration in the doctoral program in Business Administration. The Ph.D. Program is a 75-credit program.

Course Study

Year I		
Fall		
ISM 7345	Organizational and Strategic Applications of IS research	3
QMB 6603	Analyzing and Leveraging Transactional Data	3
ISM 7935	Research in Information Systems	3
Spring		
STA 5206	Design Of Exper I	3
or		
STA 5126	Fundamentals of Design of Experiments	3
MAN 7155	Fundamentals of Behavioral Research	3
ISM 7152	Seminar on System Acquisition & Implementation	3
Summer		
ISM 7906	Independent study for Doctoral Students	6
Year II		
Fall		
QMB 7910	Quantitative Research Methods in IS	3
ISM 7406	Business Analytics Research	3
ISM 7126	Design Science Research	3
Spring		
	Seminar in IS	3
	Seminar in IS	3
	Seminar in IS	3
Summer		
ISM 7906	Independent study for Doctoral Students	6
Year III		
Fall		
ISM 7981	Dissertation Preparation	9
Spring		
ISM 7980	Ph.D. Dissertation	3
Summer		
ISM 7980	Ph.D. Dissertation	3
Year IV		
Fall		
ISM 7980	Ph.D. Dissertation	3
Spring		
ISM 7980	Ph.D. Dissertation	3
Summer		

ISM 7980	Ph.D. Dissertation	6

Please contact the Ph.D. Program Director at (305) 779-7981 for further requirements and details.

Master of Science in Data Science and Artificial Intelligence – Business Analytics Track

Choose 5 from the list below

ISM 6136	Business Analytics Applications
ISM 6205	Database Management
	or
COP 5725	Principles of Database Management Systems
ISM 6208	Data Warehousing
	or
ISM 6404	Business Data Visualization and Reporting
	or
CAP 5738	Data Visualization
STA 6247	Data Analysis II
	or
PHC 6091	Biostatistics II
CAP 6778	Advanced Topics in Data Mining
	or
STA 6636	High Dimension Data Analysis
	or
COP 6727	Advanced Database Systems
	or
CAP 5610	Introduction to Machine Learning
	or
CAP 5622	Machine Learning Techniques and Applications

Graduate Certificate in Health Informatics and Analytics

The objective of this graduate certificate is to provide individuals with a basic understanding of health information technology and management of the complex inherent within the healthcare sector.

Admission Requirements

Students must have an earned baccalaureate degree with a GPA of 2.75 or higher. This certificate is open to both degree-seeking students and those who are not currently enrolled at FIU.

Prerequisite:

Computer skills including: Word, Excel and PowerPoint

Program of Study (15 credit hours)

Any five of the following 3 credit courses subject to prerequisite requirements:

HIM 5065	Introduction to Health and Health Informatics	3
HIM 6019	Legal and Ethical Aspects of Healthcare	3
HIM 6124	Technical and Data Architectures and Standards for Healthcare	3
HIM 6517	Healthcare Project Management	3
HIM 6527	Healthcare Information Security and Privacy	3
HIM 6628	Health Data Visualization	3
HIM 6682	Quality and Outcomes Analytics	3
HIM 6685	Clinical Information Systems	3
HIM 6694	Consumer Health Informatics	3
HIM 6858	Health Informatics/Analytics Practicum*	3
HIM 6865	Healthcare Database Systems	3
QMB 6357	Business Statistical Analysis	3

*proposed by student and subject to department approval

Graduate Certificate in Healthcare Management

The objective of this graduate certificate is to provide individuals with a basic understanding of the context, management and reimbursement issues for health services organizations.

Admission Requirements

Students must have an earned baccalaureate degree with a GPA of 2.75 or higher. This certificate is open to both degree-seeking students and those who are not currently enrolled at FIU.

Prerequisite:

Computer skills including: Word, Excel and PowerPoint

Program of Study (15):

MAN 6095	Management of Healthcare Organizations in the 21st Century	3
HSA 6176	Financing and Reimbursement of Health Systems	3
MAN 6830	Organization Information Systems	3
HSA 6156	Economic and Decision Analysis in Health Services	3
MAN 6501	Operations Management	3

Graduate Certificate in Business Analytics

The objective of this graduate certificate is to provide individuals with a basic understanding of the application of statistical methods, techniques, and tools to large data sets proliferating across organizations, in an effort to address persistent and evolving business problems.

Admission Requirements

Students must have an earned baccalaureate degree with a GPA of 2.75 or higher. This certificate is open to both degree-seeking students and those who are not currently enrolled at FIU.

Prerequisite:

Computer skills including: Word, Excel and PowerPoint

Program of Study (15):

The certificate requires completion of the following courses (6 credit hours):

QMB 6357	Business Statistical Analysis	3
ISM 6208	Data Warehousing	3

The certificate also requires completion of one of the following courses (3 credit hours):

ISM 6205	Database Management	3
HIM 6865	Healthcare Database Systems	3

Additionally, the certificate requires completion of one of the following courses (3 credit hours):

ISM 6136	Business Analytics Applications	3
HIM 6682	Quality and Outcome Analytics	3

Finally, the certificate requires completion of one of the following courses (3 credit hours):

ISM 6404	Business Data Visualization and Reporting	3
HIM 6628	Health Data Visualization	3

Graduate Certificate in Advanced Business Analytics

The objective of this graduate certificate is to provide individuals with an advanced understanding of the application of statistical methods, techniques, and tools to large data sets proliferating across organizations, in an effort to address persistent and evolving business problems. The proposed Graduate Certificate in Advanced Business Analytics focuses on developing the advanced skills required to pursue careers in big data, or as quantitative analysts. As public and private entities accumulate ever-increasing stores of data assets, their ability to efficiently and effectively analyze such assets constitutes a key core competency. Students will gain hands on experience applying statistical methods and techniques through use of decision support systems (DSS), expert systems (ES), business intelligence (BI) reporting tools, in addition to business analytics (BA) data mining tools and data visualization tools.

Admission Requirements

Students must have an earned baccalaureate degree with a GPA of 3.0 or higher. This certificate is open to both degree-seeking students and those who are not currently enrolled at FIU.

Prerequisite:

Graduate certificate in Business Analytics or equivalent course work

Program of Study (15):

ISM 6138	Artificial Intelligence Strategy	3
ISM 6217	Data Management, Strategy, and Governance	3
ISM 6316	Project Management	3
QMB 6603	Analyzing and Leveraging Transactional Data	3
ISM 6251	Emerging Technologies	3

Graduate Certificate in Cybersecurity Management

The objective of the Graduate Certificate in Cybersecurity Management is consistent with the university's aim of becoming a hub for cybersecurity research and education.

Admission Requirements

The Graduate Certificate in Cybersecurity Management targets both degree seeking and non-degree seeking students.

1. The applicant must hold a 4-year U.S. equivalent Bachelor's degree from an accredited college or university with a GPA of 2.75 or higher.
2. Applicants who earned the Bachelor's degree outside of the U.S. must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on paper-based version) or 6.5 overall of the International English Language Testing System (IELTS

Program of Study (15):

ISM 6328	Information Security Management	3
ISM 6575	Security Risk Management and Organizational Cyber Resilience	3
ISM 6325	Ethical Hacking for Business	3
ISM 6327	Protecting and Defending Business Digital Assets	3
ISM 6326	Information Security: Ethics, Regulation and Compliance	3

International Business

William Newburry, *Professor, Department Chair, and Ryder Eminent Scholar of Global Business*
Aya Chacar, *Professor and Ingersoll-Rand Professor*
Doreen Gooden, *Teaching Professor*
Orhun Guldiken, *Assistant Professor*
Jerry Haar, *Clinical Professor, Executive Director, Executive & Professional Education*
Arun Kumaraswamy, *Associate Professor and Director, Doctoral Program*
Sumit Kundu, *Professor, James K. Batten Eminent Scholar Chair in International Business, and Associate Dean, International Programs*
Curba Lampert, *Associate Professor*
Louis Melbourne, *Associate Teaching Professor and Academic Director, Master of International Business Program*
Ronaldo Parente, *Professor*
Karen Paul, *Professor*
Seema Pissaris, *Clinical Professor*
Dan Prud'homme, *Assistant Professor*
Dileep Rao, *Clinical Professor*
Donald Roomes, *Teaching Professor*
Mary Ann Von Glinow, *Professor Emerita*
Fred Walumbwa, *Professor*
David Wernick, *Teaching Professor*

Mission

The mission of the Department of International Business is three-fold: 1) to be a world leader in international business research, teaching and academic leadership; 2) to provide impactful entrepreneurship educational programs in line with the needs of the South Florida community, and 3) to be a recognized player in the strategic management field. The department strives to prepare its students by offering a wide variety of academic courses, experiential learning activities and exposure to real-world international business environments, guided by world-renowned faculty members.

Master of International Business (MIB)

The MIB program is a *specialized degree* focused on the key skills, behaviors and techniques required for students to succeed in the international marketplace. It emphasizes the knowledge and abilities that are specific to doing business globally. It is aimed towards those who wish to deepen their understanding of international business practices and opportunities.

MIB students also benefit from studying in South Florida, particularly since Miami is a major center for international trade and finance and a gateway linking the Americas to the world. The MIB faculty is adept at blending theoretical understanding with practical application. A variety of teaching/learning approaches—including case studies, lectures, team projects and presentations, executive guest lectures, and simulations—keep classes relevant and interesting. The global character of the MIB program is inherent in its curriculum and in the diverse nationalities of the students enrolled in it. Because of the diversity of our student body, students continually share and learn from their multinational perspectives and experiences. In addition to the international business expertise of its faculty, the program features lectures and seminars by multinational, foreign, and U.S.-based corporate business leaders.

Key features of the MIB program include:

- Choice of studying in one of two formats –in person or online.
- Emphasis on the global aspect of business;
- Opportunities to participate in seminars and conferences conducted by the *Knight Ridder Center for Excellence in Management* and the Pino Global Entrepreneurship Center, and field trips;
- Possibility of earning a second degree (MBA) at one of our partner institutions;
- Participation in a series of workshops focused on leadership, and interpersonal and communication skills;
- A high level of personal service and support;
- Access to personalized career services.

Admission Requirements

The MIB program considers students' work experience, industry knowledge and management skills as strengths in their qualifying portfolio. Candidate's professional maturity; and managerial experience earn extra points in the admission selection process because the MIB program at FIU fosters students' ability to contribute real-world experiences to add value to the overall student learning outcome (SLO) in this competitive degree program.

To be eligible for admission to the MIB program in the Chapman Graduate School of Business, applicants must meet the following qualifications:

1. Hold a bachelor's degree or equivalent from either a U.S. regionally accredited college or university or the equivalent degree from institutions outside the U.S. Students coming from programs where the primary degree is at the master level or higher will meet this requirement;
2. Show high promise of success in graduate studies as determined by the faculty based upon academic performance, work experience or a combination of academic and work experience.
3. Evidence a minimum score of 500 on the Graduate Management Admission Test (GMAT) or similar Graduate Record Exam (GRE) score. A GMAT waiver at the discretion of the academic director is available for:
    a) Applicants with two years of demonstrative work experience and success in completing other academic programs;
    b) Applicants who have an undergraduate business or related degree (economics, hospitality management, etc.) with an upper division grade point average (GPA) of 3.25 or higher;
    c) Applicants without a business or related degree having an upper division grade GPA of 3.35 or higher;
    d) If the applicant has already completed a graduate degree from an accredited university with a minimum grade point average (GPA) of 3.0 or is entering a business master's program under a special agreement for admissions with a

specific foreign and domestic universities.

4. Should, in general, have a minimum upper division grade point average (GPA) of 3.0. An applicant with substantial work experience and industry/work related recommendations will be evaluated based on academic qualifications, work experience, and performance;

In addition, students are required to submit:

1. A CV/resume describing current and past positions responsibilities, and highlights of leadership and management experience.
2. Statement of purpose (short essay) that describes why you want to obtain an advanced international business education, and how the MIB program fits within your personal and career goals. The essay will be evaluated for applicants' effective and succinct writing skills;
3. Two letters of recommendation from employers and/or faculty members who can attest to applicants' skill and motivation to succeed in the MIB program at FIU.
4. Applicants will be required prior to the final selection to either 1) participate in an Interview with the MIB leadership team, or 2) submit a five-minute video where the applicant is physically visible throughout the video. Additional instructions for uploading and content will be provided at the time of selection.

Applicants whose studies were completed in non-English speaking countries must demonstrate proficiency of the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version or 213 on the computer-based version of the Test of English as a Foreign Language) or 6.5 overall on the International English Language Testing System (IELTS) or other university level English proficiency standards as they are approved; As alternative forms of showing sufficient English proficiency, students may also present the following:

a. FIU English Language Institute ("ELI") Program Level Six completion: successful completion with passing grades for all content areas'
b. GRE Verbal Reasoning Score: 151/Analytical Writing Score: 3.5; GMAT Verbal Score:28/Analytical Writing Score: 4.5;
c. Graduate students having completed English Composition: Writing and Rhetoric 1 ("ENC 1101") and English Composition: Writing and Rhetoric 2 ("ENC 1102") with passing scores of C or better from a regionally accredited U.S. institution or as part of a signed articulation agreement.
d. Students applying to FIU under agreements for admissions with foreign universities having demonstrated their programs are taught fully in English and/or that they enforce English proficiency exam requirements for admission considered comparable to FIU English Proficiency requirements are eligible for a TOEFL waiver under terms of the agreement.
e. International agreements must follow standard approval process through the Office of Academic Planning and Accountability and document applicability of waiver. Undergraduate students meeting the minimum Florida Board of Governors regulation for college readiness scores in the reading and English sections.

Applicants are encouraged to provide any additional documentation to strengthen their application portfolio. Examples of documentation include: Master's degree in any discipline, professional certifications (i.e. CPA, CFA, SHRM, etc.), specialized leadership experience or training, documentation that the applicant is part of a "fast track" or "high potential" management group in their organization, or any other similar evidence.

Admissions at the graduate level are competitive and meeting minimum requirements does not guarantee admission.

For additional information about the MIB program please contact the program manager at (305) 348-3279 or by email to **mib@fiu.edu**.

Degree Requirements

In order to complete the MIB, students must successfully complete a total of 30 credit hours which include the following:

- six (6), three-credit hour core courses
- three (3), three-credit hour courses in areas of specialization (approved by the program)
- three-credit hour international business immersion (international trip) and local business immersion (local trip)
- non-credit MIB Workshop
- non-credit Professional Development Seminars (PDS)
- non-credit Career services activities
- non-credit Guest speaker series and roundtable discussions

The following courses are required for the MIB:

Core Courses (6 courses, 18 credit hours):

MAN 6679	Master's Project in International Business	3
MAN 6635	Global Strategy and Business Models	3
MAN 6657	Contextual Intelligence in International Business	3
MAN 6606	Fundamentals of International Business	3
MAN 6678	Global Start-ups	3
MAN 6636	Global Megatrends, Geopolitics, and Political Economy	3

Business Immersion Trips (1 course, 3 credit hours):

MAN 6686	Master's Seminar in International Business	3

Specialization Electives (3 courses, 9 credits hours):

	Specialization Elective 1	3
	Specialization Elective 2	3
	Specialization Elective 3	3

Non-credit Activities (4 activities):

	MIB Workshop	0

Professional Development Seminars	0
Career Services Activities	0
Roundtable discussions and guest speaker series	0

Students will be required to select three (3) courses in areas of specialization. One of the three specialization courses can be an internship (GEB 6941C). Elective courses are at the approval of the academic director.

Prior to start of their first semester, students will be required to complete the MIB Workshop. This workshop is designed to provide students valuable hands-on, experimental learning early in the process.

The PDS will include oral and written communications skills. The mandatory international trip will be to various destinations abroad each year and will include visits to prominent companies and cultural experiences. The mandatory local trip will include visits to global organizations located in South Florida.

Students will be required to participate in Career services activities sponsored and hosted by the COB's Business Career Management Office. These activities will assist students to develop knowledge and skills necessary for their careers and the job market.

Finally, students will be required to attend various roundtable discussions and guest speaker events. These activities are designed to provide students important exposure to, and opportunities to network with businesspersons and FIU alumni. Events will be scheduled sporadically throughout the course of the program.

Dual-Degree Students

Students from our international partner schools have the opportunity to earn a dual degree: an MBA from their home institutions and an MIB from Florida International University. Students in this program complete one year towards their MBA degree at their home institutions, ~~and~~ then attend the MIB program during their second year to complete both degrees. Students in the program also have the opportunity to remain in the U.S. for an additional twelve months under the Optional Training Program.

For more information about this program, please contact the program manager at **mib@fiu.edu**.

Entrepreneurship

The Eugenio Pino and Family Global Entrepreneurship Center, founded in 2003 at Florida International University, facilitates all entrepreneurial activities at FIU. The Center's programs provide campus-wide awareness of entrepreneurship as an approach to life that enhances and transcends traditional academic experiences. It is woven into the fabric of FIU through activities and courses across the university.

The multi-dimensional nature of the program allows it to address the unique entrepreneurial needs of one of the nation's largest ethnically diverse academic institutions, located in one of America's most entrepreneurial and dynamic international cities, Miami.

Whether in the arts, sciences, business, engineering, or humanities, entrepreneurship at FIU adds value to every discipline and enhances the creativity and innovation of students, faculty, staff, and alumni. The Center encourages students from all disciplines to enroll in entrepreneurship courses.

All academic courses in entrepreneurship and other educational activities are offered on a campus-wide basis. The Department of International Business and the Department of Industrial and Systems Engineering are primary partners in the academic endeavors of the Center. As such, both Departments have a range of courses and programs at the Master's and Doctoral level for students focusing on careers in Entrepreneurship.

Doctoral Studies Program

The Doctoral Studies Program in Business Administration is a selective one leading to the Ph.D. degree. The program emphasizes the development of research and teaching skills to ensure the graduates acquire the credentials necessary for placement in leading institutions.

Each doctoral student's program of study is individually tailored to mesh faculty and student interests and to maintain a high level of interaction between the students and faculty.

The program generally requires three to four years of full-time study, including approximately one to one-and-one-half years of dissertation research. A set of core, or "tool area" business courses, geared toward establishing the student's breadth of knowledge, is required of all doctoral candidates during the first year of study. The second year of coursework focuses on a particular area of concentration to develop the student's depth knowledge in a specific discipline. The Department of International Business and the Department of Global Leadership and Management jointly offer a Ph.D. concentration in Management. Students may focus their studies on Strategic Management, Entrepreneurship, International Business, International Management, Human Resource Management, Organizational Behavior, and Hospitality Management.

The Ph.D. Program is a 75-credit program.

Required Courses (3 courses, 9 credits)

MAN 7275	Organizational Behavior Management	3
MAN 7895	Seminar in Management	3
	and either	
MAN 7616	Multinational Firm Global Strategy	3
	or	
MAN 7718	Analysis of Corporate Policy	3

Content Courses: (Minimum of 3 courses, total 9 credits)

MAN 7146	Leadership	3
MAN 7147	Leadership II	3
MAN 7148	Intuition in Management	3
MAN 7206	Organizational Analysis	3
MAN 7207	Theories of Organization	3
MAN 7235	Management Philosophy and Strategy	3
MAN 7305	Human Resource Management	3
MAN 7412	Labor-Management Topics	3
MAN 7609	Comparative Management	3
MAN 7620	International Business Operations I	3
MAN 7621	International Business Operations II	3

Required Research Methods Courses: (4 courses, 12 credits)

MAN 7155	Fundamentals of Behavioral Research	3
MAN 7910	Advanced Management Research	3
MAN 7640	International Business Research	

	Methods	3
	and	
QMB 7910	Quantitative Research Methods in Business	3
	or	
GEB 7911	Quantitative Research Methods in Business	3
	or	
MAN 7984	Doctoral Research Seminar: Development and Utilization of Large Scale Datasets	3

Minimum of 4 Statistical Courses, 12 credits (not listed here)

Research Project Courses

MAN 7916	Doctoral Research Project in Business	6
MAN 7981	Ph.D. Dissertation Prep	9
MAN 7980	Ph.D. Dissertation	18

Master of Science in Finance/Master of International Business Joint Degree Pathway

The Department of Finance and the MIB programs in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University are proposing a joint degree pathway culminating in both a Master in International Business (MIB), and a Master of Science in Finance. Under the joint degree pathway, a student can obtain both degrees in less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program.
2. Applications for a joint degree will not be accepted from candidates who have already completed either degree. MIB or MSF students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. The two degrees will have four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSF courses transferred to meet MIB elective credit must be 6000 level courses approved by the University Curriculum Committee. Directors of the MSF and MIB degree programs may adjust these exact course requirements as a result of future changes to the MSF or MIB curriculums.

3.1. **To obtain the MIB degree,** MSF students who have finished their core courses, must complete a total of 36 credit hours as follows:

In the MIB program (24 credits hours):

MAN 6617	Managing Global Production and Technology	3
MAR 6158	International Marketing	3
BUL 6850	International Business Law	3
MAN 6635	Global Strategy and Business Models	3
MAN 6679	Master's Project in International Business	3
MAN 6601	Global Management Skills	3
MAN 6606	Fundamentals of International Business	3
MAN 6930A	Master's Seminar in Management 1	1
MAN 6930B	Master's Seminar in Management 2	1
MAN 6930C	Master's Seminar in Management 3	1

From the MSF program (12 credit hours) will be transferred as follows:

FIN 6644	Global Financial Strategy	3
FIN 6465	Financial Planning and Statements Analysis	3
MAN 6606	Fundamentals of International Business	3
FIN 6XXX	Elective	3
FIN 6XXX	Elective	3

3.2. **To obtain the MSF degree,** MIB students who have finished their core courses, must complete a total of 33 credits hours as follows:

From the MSF program (21 credit hours):

FIN 6406	Corporate Finance	3
FIN 6456	Quantitative Method in Financial Analysis	3
FIN 6246	Financial Markets and Institution	3
FIN 6515	Securities Analysis	3
FIN 6525	Portfolio Management	3
FIN 6465	Financial Future and Fixed Income Investments	3
FIN 6487	Financial Risk Management	3

From the MIB program (12 credit hours) will be transferred as follows:

FIN 6644	Global Financial Strategy	3
ACG 6255	International Accounting	3
FIN 6XXX	Finance Elective 1	3
FIN 6XXX	Finance Elective 2	3

4. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate.
5. With the joint degree pathway students will take a total of 57 credit hours to get both degrees. Without the joint degree pathway students will need to take 69 credit hours to get both degrees. Thus, MIB students who have taken twelve credits of MSF common courses may obtain an MSF degree with an additional 21 credits. MSF students who have taken twelve credits of the MIB classes, may obtain an MIB degree with an additional 24 credits.

Master of Business Administration/ Master in International Business Joint Degree Pathway

The MIB and MBA programs in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University offer a joint degree pathway culminating in both a Master of Business Administration (MBA), and a Master in International Business (MIB). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use

existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option. Candidates deciding to pursue the joint degree pathway after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree. MBA or MIB students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. The two degrees will have four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MIB courses transferred to meet MBA elective credit and vice versa must be 6000 level courses approved by the University Curriculum Committee. Directors of the MBA and MIB degree programs may adjust these exact course requirements as a result of future changes to the MBA or MIB curriculums.

3.1. **Joint Flex MBA/MIB degree**

3.1.1 To obtain MIB degree, Flex MBA students must complete the following courses for a total of 63 credit hours as follows:

In the Flex MBA program (36 credits hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

In the MIB program (27 credit hours):

MAN 6930	Master's Seminar in Management	1
MAN 6606	Fundamentals of International Business	3
FIN 6644	Global Financial Strategy	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

3.1.2 To obtain the Flex MBA, MIB degree students must complete a total of 63 credits as follows:

In the MIB program (36 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6606	Fundamentals of International Business	3
ACG 6026	Accounting for Managers	3
BUL 6850	International Business Law	3
FIN 6644	Global Financial Strategy	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

In the Flex MBA program (27 credits hours):

ACG 6175	Financial Reporting & Analysis	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6830	Organizational Informational Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
Professional Development Seminars (PDS)		

3.2. **Joint International MBA/MIB Degree**

3.2.1 To obtain the MIB degree, International MBA (IMBA) students must complete the following courses for a total of 69 credit hours as follows:

In the IMBA program (45 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6703	Colloquium in Managing Organizational Ethics	3
MAN 6830	Organizational Information Systems	3
MAN 6679	Master's Project in International Business	3
MAR 6805	Marketing Management in the Global Environment	3
QMB 6357	Business Statistical Analysis	3
Professional Development seminars (PDS) I,II, III		2

In the MIB program (24 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6635	Global Strategy and Business Models	3

MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAN 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

3.2.2. To obtain the International MBA (IMBA), MSIS degree students must complete a total of 69 credits as follows:

In the MIB program (36 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6606	Fundamentals of International Business	3
ACG 6026	Accounting for Managers	3
BUL 6850	International Business Law	3
FIN 6644	Global Financial Strategy	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

In the IMBA program (33 credit hours):

ACG 6175	Financial Reporting & Analysis	3
BUL 6810	Legal Environment	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6703	Colloquium in Managing Organizational Ethics	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
	Professional Development Seminars (PDS) I, II, III	2

In the MIB program (24 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

3.3. Joint Professional MBA/MIB Degree

3.3.1. To obtain the MIB degree. Professional MBA (PMBA) students must complete the following courses for a total of 66 credit hours as follows:

In the PMBA program *(*42 credit hours):

ACG 6026	Accounting for Managers	3
ACG 6175	Financing Reporting & Analysis	3
BUL 6810	Legal Environment of Business	3
FIN 6406	Corporate Finance	3
FIN 6446	Competitive Strategy	3
FIN 6644	Global Financial Strategy	3
MAN 6608	International Business	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
	Professional Development Seminars (PDS)	

In the MIB program (24 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3
MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
MAN 6606	Fundamentals of International Business	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

3.3.2. To obtain the Professional MBA (PMBA). MIB degree students must complete a total of 66 credits as follows:

In the MIB program (36 credit hours):

In the MIB program (36 credit hours):

MAN 6930	Master's Seminar in Management	3
MAN 6606	Fundamentals of International Business	3
ACG 6026	Accounting for Managers	3
BUL 6850	International Business Law	3
FIN 6644	Global Financial Strategy	3
MAN 6635	Global Strategy and Business Models	3
MAN 6601	Global Management Skills	3

MAN 6617	Managing Global Production and Technology	3
MAN 6679	Master's Project in International Business	3
MAR 6158	International Marketing	3
	MIB Elective	3
	MIB Elective	3

Two of the following elective courses are required for the MIB degree:

MAN 6678	Global Start-ups	3
GEB 6941C	Graduate Business Internship	3
MAN 6937	Special Topics in Business Environment	3

In the PMBA program *(*30 credit hours):

ACG 6175	Financing Reporting & Analysis	3
FIN 6406	Corporate Finance	3
MAN 6501	Operations Management	3
MAN 6245	Organizational Behavior	3
MAN 6726	Strategic Management	3
MAN 6830	Organizational Information Systems	3
MAR 6805	Marketing Management in the Global Environment	3
MAR 6816	Corporate Simulation	3
QMB 6357	Business Statistical Analysis	3
	Professional Development Seminars (PDS)	

Notes:

[1] Requirements for the CMBA depend on track chosen. If a candidate has elected the option of a specialization, the number of credit hours required and shared for the Flex will be used. Otherwise, the number of credit hours required and shared for the PMBA will be used.

[2] The Executive MBA and Professional MBA in Healthcare Management programs are not included as an option for the joint degree.

[3] Joint degree candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree candidate.

For additional information, contact the MIB office at (305) 348-3279 or the MBA office at (305) 348-0148.

Master of International Business/Juris Doctor Joint Degree Pathway

The faculties of the College of Law and the College of Business at Florida International University have approved a joint degree pathway culminating in both a Juris Doctor degree, awarded by the College of Law, and a Master of International Business degree, awarded by the College of Business. Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. Essential criteria relating to the joint degree pathway are as follows:

1. Candidates for the pathway must meet the entrance requirements for and be accepted by both Colleges. Both Colleges must be informed by the student at the time of application to the second program that the student intends to pursue the joint degree.
2. The joint degree pathway is not open to students who have already earned one degree.
3. For law students, enrollment in the MIB program is required no later than the completion of 63 credit hours in the JD program. For MIB students, enrollment in the JD program is required no later than the time that the student has completed one-half of the MIB curriculum.
4. A student must satisfy the curriculum requirements for each degree before either degree is awarded. The College of Business will allow 9 credit hours of upper level international and comparative law courses to be credited toward both the MIB and JD degrees. These 9 credit hours of law classes will be in lieu of the International Business Law course (3 credit hours) and any two other courses (totaling 6 credit hours) in the MIB curriculum. Reciprocally, law students may receive 9 hours of credit toward the satisfaction of the JD degree for courses taken in the MIB curriculum upon completion of the MIB degree curriculum with a grade point average of 3.0 or higher.
5. A student enrolled in the joint degree pathway may begin the student's studies in either College, but full-time law students must take the first two semesters of law study consecutively and part-time law students must take the first three semesters of law study consecutively. Students admitted to one College but electing to begin study in the other College under the joint degree pathway may enter the second College thereafter without once again qualifying for admission so long as they have notified the second College before the end of the first week of the first semester in the second College and are in good academic standing when studies commence in the second College.
6. A student enrolled in the joint degree pathway will not receive either degree until the student has satisfied all of the requirements for both degrees, or until the student has satisfied the requirements of one of the degrees as if the student had not been a joint degree candidate.
7. Students in the joint degree pathway will be eligible for the graduate teaching assistantships and research assistantships in the College of Business on the same basis as other MIB students, subject to the guidelines and restrictions set by the College of Business.

For additional information, contact the MIB office at (305) 348-3279 or the Law School Admissions Office at (305) 348-8006.

Master of International Business/Master of Arts in International Studies Joint Degree Pathway

The Department of Politics and International Relations and The Alvah H. Chapman Jr. Graduate School of Business at Florida International University are proposing a joint degree pathway culminating in both a Master in International Business (MIB), and a Master of Arts in International Studies (MAIS). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option.

Students deciding to pursue the joint degree option after having been admitted to one program will indicate this intention only on their second application.

2. Applications for a joint degree will not be accepted from candidates who have already graduated with either degree. MIB or MAIS students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements, including the comprehensive examination for the MAIS degree.
3. Candidates must satisfy all requirements for each degree. The two degrees will have four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. Courses transferred to meet elective credits must be 5000 or 6000 level courses. Directors of the MAIS and MIB degree programs may adjust these exact course requirements as a result of future changes to the MAIS or MIB curriculums.

3.1. **To obtain the MIB degree,** MAIS students who have successfully completed the required 36 credits must, additionally, complete 24 credit hours in the MIB program as follows:

MAN 6617	Managing Global Production and Technology	3
MAR 6158	International Marketing	3
MAN 6635	Global Strategy and Business Models	3
MAN 6679	Master's Project in International Business	3
MAN 6601	Global Management Skills	3
FIN 6644	Global Financial Strategy	3
ACG 6255	International Accounting	3
MAN 6930A	Master's Seminar in Management 1	1
MAN 6930B	Master's Seminar in Management 2	1
MAN 6930C	Master's Seminar in Management 3	1

In order to satisfy the 36 credits hours required by the MIB program, 12 credit hours will be transferred from the MAIS program as follows:

INR 6017	Comparative Approaches to Area Studies and Global Issues	3
INR 5409	International Law	3
Elective 1		3
Elective 2		3

3.2. **To obtain the MAIS degree,** MIB students who have successfully completed the required 36 credits must, additionally, complete 24 credit hours in the MAIS program as follows:

INR 6706	Political Economy of International Relations	3
INR 5615	Research Design and International Relations	3
GEO 6473	Space, Place and Identity	3
INR 5609	Contemporary Dynamics of International Relations	3
INR 6017	Comparative Approaches to Area Studies and Global Issues	3
Field course 1		3
Field course 2		3
Field course 3		3

In order to satisfy the 36 credits hours required by the MAIS program, 12 credit hours will be transferred from the MIB program as follows:

MAN 6606	Fundamentals of International Business	3
BUL 6850	International Business Law	3
Elective 1		3
Elective 2		3

All MAIS students coming into the MIB program will be required, during the first month of classes, to take a 16-hour workshop in Accounting and a 16-hour workshop in Quantitative Methods. The purpose of these workshops is to ascertain that students have the necessary background in both of these fields. Students must pass each workshop with at least a B grade (there is no charge for this workshop). Otherwise, they must register, and pay the corresponding tuition for the Accounting class (ACC 6026) and/or the Quantitative methods class (QMB 6357) in the Evening MBA program, and earn a grade of B or higher.

Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree pathway candidate.

Marketing and Logistics

Anthony Miyazaki, *Professor and Department Chair*
Alexandra Aguirre-Rodriguez, *Associate Professor*
Nicolo Alaimo, *Assistant Teaching Professor and Co-Director, Global Sales Lab*
Christopher Allen, *Visiting Assistant Teaching Professor*
L. Craig Austin, *Assistant Teaching Professor*
Elisabeth Beristain, *Teaching Professor*
Tim Dugan Birrittella, *Teaching Professor*
Lennay Chapman, *Assistant Professor*
Yi-Ju Vivian Chen, *Teaching Professor*
Sebastián Garcia-Dastugue, *Assistant Professor*
Peter R. Dickson, *Professor*
Joshua D. Dorsey, *Assistant Professor*
Maria M. Garcia, *Associate Teaching Professor*
Wendy Guess, *Associate Teaching Professor*
William Humphrey, *Assistant Professor*
Walfried M. Lassar, *Ryder Professor*
Jaehoon Lee, *Assistant Professor and BMI Marketing Professor*
Greg Maloney, *Associate Teaching Professor, Director, Ryder Center for Supply Chain Management, and Director, Master of Science in Logistics and Supply Chain Management Program*
Ron Mesia, *Associate Teaching Professor and Executive Director, Ryder Center for Supply Chain Management*
Gustavo Mosquera, *Assistant Teaching Professor*
Andrea S. Patrucco, *Assistant Professor*
Anna Pietraszek, *Associate Teaching Professor and Director for Global Recruitment and Operations*
Nancy Richmond, *Associate Teaching Professor*
Raymond Rody, *Assistant Teaching Professor*
Bruce Seaton, *Associate Professor*
Jayati Sinha, *Associate Professor and Macy's Retailing Professor*
Rafael Soltero, *Associate Teaching Professor and Co-Director, Global Sales Lab*
Jaclyn Tanenbaum, *Associate Teaching Professor and Director, Master of Science in Marketing Program*
Kimberly Taylor, *Professor*
John Tsalikis, *Professor*
Sheryl Weir-Latty, *Visiting Assistant Teaching Professor*
Andrew Yap, *Visiting Assistant Teaching Professor*

The Department of Marketing and Logistics offers a Master of Science in Marketing, a Master of Science in Logistics and Supply Chain Management, and a concentration in Marketing for the Ph.D. program.

The Department boasts an internationally diverse, experienced, widely published, and highly involved faculty. Our faculty includes recognized experts in digital marketing, branding, marketing analytics, consumer behavior, social media, marketing management, international marketing, logistics and supply chain management, distribution channels and business ethics.

The study of marketing involves learning about how best to make a host of key decisions and implement them in an organization. Some of these decisions include:

- Selection of profitable product/service offerings
- Market segment selection and targeting strategies
- Product/service positioning
- Digital marketing and social media strategies
- Distribution, logistics, and supply chain management
- Pricing and the management of price perceptions
- Advertising, promotion, and customer relations

You can study topics like marketing management, market research, consumer behavior, export marketing, digital marketing, social media, marketing channels, retailing, international marketing, advertising, promotional strategy, personal selling, sales management, marketing analytics and strategic marketing.

Master of Science in Marketing

The Master of Science in Marketing is a one-year (10-month) program that will provide rigorous graduate education focused on areas of marketing that are relevant to, and demanded by today's business environment, namely, digital marketing, brand development, and marketing analytics.

The program will be taught in a lockstep fashion that allows each course to be integrated into the overall theme of the program such that examples and exercises that are relevant to the three areas of focus will be used to reinforce students' learning. Likewise, the overall focus of digital, branding, and analytics will be incorporated into each course. As a whole, the program will cover digital marketing (from general e-marketing to social media to digital marketing strategies), the psychology and economics of buyer behavior, how to conduct marketing research in today's electronic environment, the development of brand equity and its implications for organizational success, the use of marketing analytics to improve the efficiency of marketing activities, as well as marketing management and overall strategy.

Admission Requirements

To be eligible for admission to the program, students must:

1. Hold a bachelor's degree (or equivalent) from an accredited college of university;
2. Have a minimum GPA of 3.0 (on a 4-point scale) in all of their upper division course work or have earned a graduate degree with a minimum of a 3.0 GPA;
3. Provide three letters of recommendation from professional supervisors and/or former faculty that attest to the applicant's educational background, motivation, and analytical skills;
4. Provide a series of personal statements regarding their motivation to attend the program, personal and career goals, and contributions that they will bring to their colleagues and fellow students;
5. Have at least 3 years of professional work experience or score at least 500 on the Graduate Management Admissions Test (GMAT) or the equivalent on the Graduate Record Exam (GRE);
6. Complete an interview with one of the faculty advisors or the director of the program;
7. Applicants who studies were completed outside of the US must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version) or 6.5 overall on the International English Language Testing System (IELTS); and
8. Be in good standing at all previously-attended colleges and universities.

Admissions at the graduate level are competitive and meeting the minimum program requirements does not guarantee admission.

Graduation Requirements

Completion of 10 graduate courses equivalent to 30 graduate credit hours and the completion of a series of Professional Development Seminars and/or an Internship approved by the Faculty Advisor.

To be eligible for a Master's degree, a student must:

1. Satisfy all university requirements for a master's degree;
2. Satisfy any required prerequisites;
3. Complete any required professional development seminars and/or internships;
4. Complete required courses in the enrolled graduate program; and
5. Earn a minimum average of "B" (3.0) in all approved courses in the student's approved course of graduate study.

No courses in which a graduate student earns a grade below "C" may be counted toward any master's degree program in the Chapman School. However, all approved undergraduate and graduate course work a graduate student takes will be counted in computing his or her grade point average, including courses in which he or she earned a "D" or "F" grade.

Required Courses

MAR 6805	Marketing Management in the Global Environment	3
MAR 6722	E-Marketing	3
MAR 6506	Consumer Behavior	3
MAR 6646	Marketing Research	3
MAR 6880	Social Media Marketing	3
MAR 6336	Integrated Marketing Communication	3
MAR 6675	Marketing Analytics	3
MAR 6838	Brand Management	3
MAR 6735	Digital Marketing Strategies	3

And one of:

MAR 6819	Marketing Strategy	3
MAR 6936	Special Topics in Marketing	3
MAR 6075	Current Issues in Marketing I	3

Professional Development Seminars and/or an appropriate internship will be required.

Marketing Concentration in the Ph.D. Program

All students are required to complete a minimum of 15 courses in addition to the College Colloquium series. Students concentrating in Marketing must take all seven of the seminars offered by the Marketing Department; these seminars are listed below. In addition, students are required to take a two-course sequence in research methods and between two to four courses in statistics (the number of required courses in statistics depends upon the student's level of statistical knowledge upon entering the program). Other coursework will be selected by the student with the advice and consent of the Department's Ph.D. Committee. To remain in the program, students are expected to maintain a GPA of 3.5 or better in the seven courses comprising the Marketing concentration. In addition, students are expected to maintain a GPA of 3.3 or better in all of their other coursework. The Ph.D. Program is a 75-credit program.

Major Field Courses (8 courses, 24 credits)

MAR 7622	Marketing Research Methodology I	3
MAN 7155	Fundamentals of Behavioral Research	3
MAR 7507	Seminar in Consumer Behavior	3
MAR 7786	Marketing Theory	3
MAR 6936	Special Topics in Marketing	3
MAR 7623	Marketing Environment	3
MAR 7817	Seminar in Marketing Management	3
MAR 7399	Seminar in Advertising and Persuasion	3
MAR 6936	Special Topics in Marketing	3

Independent Study (2 courses, 12 credits)

MAR 6915	Independent Study in Marketing	12

Quantitative Courses (4 courses, 12 credits)

Students must complete four quantitative courses including

Required

EDF 6486	Advanced Data Analysis in Quantitative Educational Research (REQUIRED)	3
OR		
STA 6167	Statistical Methods in Research II (REQUIRED)	3
AND		
EDF 7419C	Applied Regression Analysis for Educational Research (REQUIRED)	3
AND		
STA 5206	Experimental Design (REQUIRED)	3
EDF 7403C	Data Analysis in Multivariate Educational Research	3
EDF 7412C	Structural Equation Modeling for Educational Research	3
PSY 5246	Multivariate Analysis in Applied Psychological Research	3
PSY 5939	Special Topics	3
PHC 6062	Systematic Reviews and Meta-Analysis	3

Research Projects

Students' research skills are further developed through summer projects during their first and second years in the program. These projects are supervised by faculty and are multi-faceted in their intended purpose.

Many students have never been involved with a research project from start to finish. The first year project is intended to familiarize students with the research process. The emphasis is on executing a manageable project during the allotted time rather than the novelty of the thinking behind the research. Much more emphasis is given to the creativity of the research for the second summer project. Ideally, this research would serve as a stepping stone for the student's dissertation, which will be the focus of the last two years of the program. Both summer projects require the submission of a written paper and presentation to the marketing faculty.

Year I
Fall

MAR 7622	Marketing Research Methodology	3
	OR	
MAN 7155	Fundamentals on Behavioral Research	3
MAR 7786	Seminar in Marketing Theory	3

EDF 6486	Advanced Data Analysis in Quantitative Educational Research	3
	OR	
STA 6167	Statistical Methods in Research II	3
Spring		
MAR 7817	Seminar in Marketing Management	3
MAR 6936	Special Topics in Marketing	3
EDF 7419C	Applied Regression Analysis for Educational Research	3
Summer		
MAR 6915	Independent Study in Marketing	6
Year II		
Fall		
MAR 7507	Seminar in Consumer Behavior	3
MAR 7623	Seminar in Marketing Environment	3
STA 5206	Experimental Design	3
Spring		
MAR 6936	Special Topics in Marketing	3
MAR 6936	Special Topics in Marketing	3
Quantitative Course		3
Summer		
MAR 6915	Independent Study in Marketing	6
Year III		
Fall		
MAR 7981	Ph.D. Dissertation Prep	9
Spring		
MAR 7980	Ph.D. Dissertation	3
Summer		
MAR 7980	Ph.D. Dissertation	3
Year IV		
Fall		
MAR 7980	Ph.D. Dissertation	3
Spring		
MAR 7980	Ph.D. Dissertation	3
Summer		
MAR 7980	Ph.D. Dissertation	6

Master of Science in Logistics and Supply Chain Management

The MS in Logistics and Supply Chain Management is a one year (10-month) program that will provide rigorous graduate education that focuses on logistics technology, data analytics, and distribution modeling, which are areas relevant to, and demanded by, today's business environment. The program will be taught in a lockstep fashion which will allow the themes of logistics technology, data analytics, and distribution modeling to be incorporated into each course. As a whole, the program will cover all aspects of logistics technology, quantitative and qualitative methodologies for product design, warehousing, procurement and contracting, how to conduct research and data analytics in today's electronic environment, the use of computer algorithms to predict product distribution models, as well as marketing management and overall strategy.

Required Courses:

SCM 6016	Supply Chain Management	3
MAR 6805	Marketing Management in the Global Environment	3
SCM 6136	Purchasing and Inventory Management	3
MAR 6203	Omni-Channel Marketing and Distribution Systems	3
TRA 5245	Transportation Logistics	3
MAR 6860	Customer Relationship Management	3
SCM 6721	Import/Export and International Logistics	3
MAR 6446	Negotiations	3
SCM 6216	Logistics Strategy	3
SCM 6206	Logistics Systems and Analytics	3

Professional development seminars and/or an appropriate internship, for zero credit, will be required.

Admission Requirements

To be eligible for admission to the program, students must:

1. Hold a bachelor's degree (or equivalent) from an accredited college or university;
2. Have a minimum GPA of 3.0 (on a 4-point scale) in all of their upper division course work or have earned a graduate degree with a minimum of a 3.0 GPA;
3. Provide three letters of recommendation from professional supervisors and/or former faculty that attest to the applicant's educational background, motivation, and analytical skills;
4. Provide a series of personal statements regarding their motivation to attend the program, personal and career goals, and contributions that they will bring to their colleagues and fellow students;
5. Have at least 3 years of professional work experience or score at least 500 on the Graduate Management Admissions Test 9GMAT) or the equivalent on the Graduate Record Exam (GRE);
6. Applicants who studies were completed outside of the US must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version) or 6.5 overall on the International English Language Testing System (IELTS); and
7. Be in good standing at all previously attended colleges and universities.

Admissions at the graduate level are competitive and meeting the minimum program requirements does not guarantee admission.

Graduation Requirements

Completion of 10 graduate courses equivalent to 30 graduate credit hours and the completion of a series of Professional Development Seminars and/or an Internship approved by the Faculty Advisor.

To be eligible for a Master's degree, a student must:

1. Satisfy all university requirements for a master's degree;
2. Satisfy any required prerequisites;
3. Complete any required professional development seminars and/or internships;
4. Complete required courses in the enrolled graduate program; and
5. Earn a minimum average of "B" (3.0) in all approved courses in the student's approved course of graduate study.

No courses in which a graduate student earns a grade below "C" may be counted toward any master's degree program in the Chapman School. However, all approved

undergraduate and graduate course work a graduate student takes will be counted in computing his or her grade point average, including courses in which he or she earned a “D” or “F” grade.

Course Descriptions

Definition of Prefixes

ACG-Accounting; BUL-Business Law; COP-Computer Programming; ECP-Economic Problems and Policy; ENT-Entrepreneurship; FIN-Finance; GEB-General Business; HIM-Health Information Management; ISM-Information Systems Management; MAN-Management; MAR-Marketing; QMB-Quantitative Methods in Business; REE-Real Estate; SCM- Supply Chain Management; TAX-Taxation; TRA-Transportation.
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

Departmental or School/College Designation:

AC – School of Accounting
BA – College of Business
FI – Finance
GM – Global Leadership and Management
IB – International Business
IS – Information Systems and Business Analytics
ME – Marketing and Logistics
RE – Real Estate

ACG 5137 Standards and Principles of Financial Accounting (AC) (3). A survey of official pronouncements on accounting standards and principles. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5256 International Dimensions of Accounting and Auditing (AC) (3). Review of and reasons for variations in accounting and auditing practices throughout the world; explore initiatives undertaken to promote transparency, harmonization, and standardization to facilitate understanding of financial statements prepared under various conventions. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5307 Advanced Managerial Accounting (AC) (3). In depth study of determination and control of production costs; budgetary control; CVP analysis; and alternative methods of performance measurement and analysis. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5386 Controllership (AC) (3). Study of controllership function; role of controller in planning, accounting for, and evaluating company performance; relationship with internal auditing. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5395 Seminar in Managerial Accounting (AC) (3). An in-depth study of selected areas of managerial accounting. Prerequisites: ACG 4341 or equivalent and permission of Accounting certificate program advisor.

ACG 5507 Issues and Problems in Accounting for Non-Profit Entities (AC) (3). Study and analysis of accounting, reporting, and control standards and practices of non-profit organization -including accounting for governments, hospitals, universities, churches, and others. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5516 The Environment of Government Accounting (AC) (3). Basic public administration emphasizing governmental processes with which governmental accountants and auditors come into contact. Includes legislative and administrative activities and operating functions having high accounting and auditing involvement. Prerequisite: Permission of accounting certificate program advisor.

ACG 5518 Historical and Comparative Government Accounting (AC) (3). Research and reporting on subjects in the history of, or on comparative aspects of, government accounting. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5519 Contemporary Issues in Government Accounting (AC) (3). Research and reporting on current issues related to government accounting. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5545 Analysis of Governmental Financial Reports (AC) (3). Describes content of government financial reports and analytical methods employed by internal and external users; covers concepts of disclosure, budget/actual analysis, credit evaluations, operational evaluations, measures of fiscal capacity and signs of fiscal stress. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5546 Governmental Planning and Budgetary Accounting with Cases (AC) (3). Budgeting in governments emphasizing formulation based on accounting and auditing input. Budget execution and analysis of deviations of actual from budgets; study of ZBB, PPBS, and MBO systems and their behavioral and accounting bases. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5596 Accounting for Specialized Governmental and Nonprofit Entities (AC) (3). Survey course by guest lecturers covering detailed accounting concepts, procedures, and reporting for enterprise fund entities, educational entities, and unique types of internal service funds. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5627 Systems Auditing (AC) (3). Principles and procedures of auditing systems of information, including the function, approach, and techniques of systems auditing and the evaluation of systems controls. Emphasis on auditing computerized systems. Prerequisite: Permission of Accounting certificate program advisor.

ACG 5696 Seminar in Auditing (AC) (3). An in-depth study of recent developments in auditing. Prerequisites: ACG 4651 or equivalent and permission of Accounting certificate program advisor.

ACG 5806 Seminar in Financial Accounting (AC) (3). An in-depth study of recent developments in financial accounting. Prerequisite: ACG 4111 and permission of Accounting certificate program advisor.

ACG 5846 Statistical Methods in Accounting and Auditing (AC) (3). Formulation, analysis and implementation on a microcomputer of mathematical models in financial and managerial accounting and auditing. Prerequisite: Permission of Accounting certificate advisor.

ACG 5905 Independent Study in Accounting and Auditing (AC) (1-3). Individual conferences, supervised readings, and reports on personal investigations. Prerequisites: Written permission of the instructor, accounting certificate program advisor, School Director, and Dean.

ACG 5936 Special Topics in Accounting and Auditing (AC) (3). For groups of students who wish an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Prerequisites: Written permission of the instructor, accounting certificate program advisor, School Director, and Dean.

ACG 6026 Accounting for Managers (AC) (3). Presentation of the nature, techniques and uses of accounting from the perspective of people who manage businesses and investments in businesses. Covers both financial and management accounting. Not open to EMST or MACC students.

ACG 6105 Accelerated Financial Accounting I (AC) (4). Underlying concepts and ethical, regulatory and business environment of financial reporting; emphasis on measurement, analysis and interpretation of income, cash flows and financial position. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those with undergraduate accounting degrees.

ACG 6115 Accelerated Financial Accounting II (AC) (4). Underlying concepts and ethical, regulatory and business environment of financial reporting; emphasis on measurement, analysis and interpretation of financial position, accounting partnerships, international corporations. Prerequisites: ACG 6105 and admission to a graduate program in the School of Accounting or permission of the School Director. Not open to those with undergraduate accounting degrees.

ACG 6135 Seminar in Financial Accounting Theory I (AC) (3). A study of the theoretical structure of accounting, with special attention to asset and income definition, recognition, and measurement; and an appraisal of pronouncements of professional accounting organizations. Prerequisites: Baccalaureate in accounting or equivalent and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6145 Seminar in Financial Accounting Theory II (AC) (3). A continuation of ACG 6135, with emphasis on the problems of accounting for price-level changes and other current issues. Prerequisites: ACG 6135 and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6175 Financial Reporting and Analysis (AC) (3). Comprehensive treatment of analysis of financial statements as aid for decision making; looks at current state of financial reporting practices and impact of published statements on economic systems. Prerequisites: ACG 6026, FIN 6406 or equivalent. Not open to EMST or MACC students.

ACG 6176 Evaluation of Financial Reports, Business Analysis and Valuation (AC) (3). Seminar examining quality of financial reports and adjusting for investment decisions. Valuation models are used to value firms given economic and industry characteristics and alternative business strategies. Prerequisites: ACG 4111, ACG 4201, or permission of the Director of the School of Accounting.

ACG 6225 Advanced Accounting (AC) (3). Seminar examining role and inputs of accounting, finance, and taxation in strategic decisions. Mergers, acquisitions, and corporate restructuring is the frame-work used to bring these issues into focus. Prerequisites: Master of Accounting students only; must be in final semester of program.

ACG 6245 Accounting and Auditing Compliance Issues (AC) (3). Corporate, government and public accounting compliance with response to institutional and political regulation; attention to compliance in specialized industries such as health care, transportation, financial institutions real estate and construction. Prerequisites: ACG 4111 or equivalent, ACG 4651 and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6255 International Accounting (AC) (3). Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting for multinational corporations, including transfers of funds and income measurements; the role of accounting in national economic development. Prerequisites: ACG 6026 or equivalent, not open to MACC students.

ACG 6257 Global Accounting, Auditing and Financial Strategy (AC) (3). Evaluation of U.S. GAAP, International Accounting Standards and the international dimensions of auditing. Consideration is given to geopolitical issues, international organizations, and role of regulators. Prerequisites: ACG 4111, ACG 4651, ACG 6176, or permission of the Director of the School of Accounting.

ACG 6295 Financial Accounting IV (AC) (3). The application of accounting principles in the production of information for selected topics in financial statements with extensive examination and evaluation of FASB and international standards of accounting. Prerequisites: Admission to a graduate program in the School of Accounting or the permission of the Director of the School of Accounting.

ACG 6345 Management Accounting and Control (AC) (3). Accounting concepts and techniques useful in evaluation, planning, organization and control of a business enterprise, with attention to methods of accounting for production activities; ethics in management accounting. Prerequisites: ACG 4111 and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting. Not open to those with undergraduate accounting degrees.

ACG 6346 Seminar in Managerial Accounting I (AC) (3). Analysis of transfer pricing; product pricing; incremental profit analysis; decision models; alternative performance measurement techniques; and other advanced topics. Prerequisites: ACG 4341 or ACG 6026, and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6356 Seminar in Managerial Accounting II (AC) (3). A study of the controllership function in corporate organizations; an appraisal of the controller's role in planning, accounting for, and evaluating company performance; and relationship to internal audit function. Prerequisites: ACG 4341 and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6385 Managerial Control and Controllership (AC) (3). Control methods for management; control structure, planning and forecasting for budgets; the functions of controllership, including cash management, risk management, investments, tax administration and records management. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6405 Seminar in Accounting Information Systems I (AC) (3). Accounting information systems security and control and legal and ethical compliance; control of computer failure and abuse and compliance with laws, regulations, and standards. Computer usage required. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6415 Seminar in Accounting Information Systems II (AC) (3). Accounting information systems for strategic use in the management of competitive enterprises; budgeting, performance measurement, and cost accounting for generating strategic information. Computer usage required. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6437 Advanced Accounting Information Systems (AC) (3). Development and control of information systems for accounting, emphasis on new microcomputer technology, software engineering, methods of data processing and database management systems. Prerequisites: ACG 4401, or permission of the Director of the School of Accounting.

ACG 6445 Accounting Information Systems Analysis and Design (AC) (3). Accounting applications of information systems analysis and design concepts, methods, and tools; requirements, design, control, and prototyping of accounting information systems. Computer usage required. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6455 Accounting Information Systems Technology, Control and Audit I (AC) (3). Accounting applications, control, and audit of large computer systems; technology, control concepts and procedures, audit testing and documentation, and control and audit software. Computer usage required. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6456 Accounting Information Systems Technology, Control and Audit II (AC) (3). Accounting applications, control, and audit of small computer systems; technology, control concepts and procedures, audit testing and documentation, and control and audit software. Computer usage required.

ACG 6466 Accounting Enterprise Resource Planning (AC) (3). Course intends to provide students with an overview of ERP in accounting including history, concepts of ERP and role of ERP in accounting. It also provides students hands on experience with accounting application of ERP package, SAP/R3. Prerequisites: ACG 6437, or permission of the Director of the School of Accounting.

ACG 6506 Governmental and Non – Profit Accounting (AC) (3). Treats the developing concept of consolidated financial statements for governments. Also covers advanced areas of accounting, e.g., concepts, investment accounting, grant accounting, and pension accounting. Prerequisites: ACG 6505, ACG 6584, admission to graduate program in School of Accounting or permission of the Director of the School of Accounting.

ACG 6517 Audit of Governmental Entities (AC) (3). Covers methods of audits of governments by independent public accountants, coordination with internal audit staffs; describes audits of governments by internal auditors (audits of fidelity, efficiency and effectiveness); covers current single audit concept. Prerequisites: ACG 6505, admission to the graduate program in the School of Accounting, or permission of the Director of the School of Accounting.

ACG 6625 Information Technology Auditing (AC) (3). Understanding and application of concepts and procedures of auditing computer information systems; analysis, testing, and documentation of computer security and controls for management and financial statement reports. Prerequisites: ACG 4651, ACG 6437, or permission of the Director of the School of Accounting.

ACG 6655 Auditing and Accounting Systems (AC) (4). Standards and procedures of auditing, ethics and responsibilities of auditors, audit evidence, reporting, international standards; design and control of accounting information systems. Prerequisites: ACG 4111 with a grade of 'C' or higher and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting. Not open to those with undergraduate accounting degrees.

ACG 6657 Environment of Accounting and Auditing (AC) (3). Economics and scope of accounting practice in context of self-regulated profession, public policy constraints, complex business structures and innovative transactions, and rapidly changing information technology with extensive reference to business periodicals and on-line databases. Prerequisites: ACG 4111, ACG 4651, or permission of the Director of the School of Accounting.

ACG 6675 Internal Auditing (AC) (3). This course examines auditing in depth as a professionalized discipline for reviewing testing, and evaluating the financial and the operational activities and controls of an economic entity. Focus will be directed to private sector profit seeking entities as well as governmental and other nonprofit organizations. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6676 Advanced Internal Auditing (AC) (3). Special topics in internal auditing such as forensic auditing, analytical auditing, management consulting, work with external auditors, ethics, multinational aspects, evaluation methods, quality control, new technologies and recent research. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6677 Applied Internal Auditing (AC) (3). The expansion of the internal audit process into such areas as administrative and support functions; line functions such as research, sales, and production; and special areas such as compliance, budgeting and controls. Course is taught by outside lecturers. Prerequisites: Admission to a

graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6685 Introduction to Forensic Accounting (AC) (3). The course will define forensic accounting and will identify techniques used in domestic and foreign frauds. It also will define financial fraud and provide mechanisms for its detection. Prerequisite: Entry into the MACC program.

ACG 6686 Fraud Examination (AC) (3). Use of technology for the prevention of financial fraud, examination of emerging practices and regulatory trends as reflected in court decisions. Prerequisites: ACG 4651, ACG 6625, or permission of the Director of the School of Accounting.

ACG 6687 Financial Investigation (AC) (3). The course will present knowledge and skills necessary to specialize in financial investigation, will identify common schemes in financial fraud and how will analyze behavioral, digital, and manual evidence. Prerequisite: Entry into the MACC Program.

ACG 6692 Business Analytics for Forensic Accounting (AC) (3). The course will involve going through a series of exercises that allow students to learn and apply forensic analytic methods and techniques. Students will learn both high-level techniques and detailed, drill-down level analysis. Prerequisite: Entry into the MACC Program.

ACG 6696 Current Issues in Auditing (AC) (3). Professional and technical aspects of auditing practice; introduction to SEC; ethics and legal responsibilities; emergence of non-public practice; public expectations and professional reality; the impact of technology; international auditing; recent auditing developments. Prerequisites: ACG 4651 and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6835 Behavioral Accounting (AC) (3). Study of the effect of the process and products of accounting and of the relation of changes in the process and products to individual and group behavior; consideration of ways in which accounting can aid individuals and organizations to attain their goals. Prerequisites: ACG 4111 and 4341 or equivalents, and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6838 Fraud Investigation (AC) (3). The course will present an in-depth study of corporate crime and fraud using case law and recent major corporate debacles as case studies to explain theories of corporate, managerial, and third party professional criminal liability. Prerequisite: BUL 6890.

ACG 6845 Accounting and Quantitative Methods (AC) (3). Study of statistical and management science techniques that are or may be utilized in financial and managerial accounting. Prerequisites: QMB 3200 and ACG 4401, or equivalents, and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6866 Accounting for Health Care Organizations (AC) (3). Study of financial reporting and analysis applied to for-profit and NFP healthcare organizations emphasizing accounting issues related to strategic decision-making. Prerequisite: Permission of the Director of the School of Accounting.

ACG 6867 Seminar in Medicare Regulation (AC) (3). Principles of Medicare payment systems emphasizing changing role of Medicare in the American healthcare system and developing technical skills to understand, identify and research problems in Medicare payments. Prerequisite: Permission of the Director of the School of Accounting.

ACG 6875 Evolution of Accounting Thought (AC) (3). The cultural origins of accounting and its traditional controversies, from pre-historic time onward, and in an international context. Prerequisites: Admission to graduate program in School of Accounting or permission of the Director of the School of Accounting.

ACG 6885 Accounting Research and Reporting (AC) (3). Examine the projects relating to historical and current problems in public accounting practice, and preparation of appropriate reports in oral and written formats, under a variety of professional settings. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6897 Small Business Accounting and Consulting (AC) (3). Live client clinic providing business and accounting services to low income and minorities seeking to start small businesses or non-profit corporations and weekly seminars on relevant topics. Prerequisite: Fully admitted into any graduate program in the college of business.

ACG 6905 Independent Study in Accounting (AC) (1-3). Individual conferences; supervised readings; reports on personal investigations. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6935 Special Topics in Accounting (AC) (1-3). Intensive study for groups of students of a particular topic or a limited number of topics not otherwise offered in the curriculum. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

ACG 6940 Accounting Internship (AC) (3). Practical application in a clinical setting of knowledge acquired in the classroom. Prerequisite: Approval by Director of School of Accounting.

ACG 7157 Seminar: Theory and Contemporary Research in Financial Accounting (AC) (3). An evaluative overview of the classical literature in financial accounting and the contemporary empirical research published in the leading scholarly journals. Examined are income determination theories, normative accounting principles, accounting information and stock prices, and principal-agent relationships. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7177 Seminar: Accounting Information and Security Prices (AC) (3). An in-depth examination of accounting information and security prices within capital markets theory, including a thorough examination of the cross-sectional properties and time-series properties of accounting numbers and the importance of research findings and new developments in research methodology.

Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7436 Seminar: Information Value and Agency Research Accounting (AC) (3). An in-depth examination of the research paradigm and the associated empirical research in accounting and auditing. Examined are the issues of information value, risk aversion, risk sharing contracts, as well as accountability from the standpoint of monitoring contracts. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7695 Seminar: Contemporary Research in Management Accounting and Auditing (AC) (3). A broad overview of classical and contemporary empirical research in managerial accounting and auditing including budget and performance review, decision making, information analysis, professional judgment, sampling problems, audit risk, etc. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7836 Seminar: Behavioral Research in Accounting-Individual Behavior (AC) (3). An in-depth examination of the relationship of cognitive psychology, cognitive models of human judgment, decision theory and accounting information. Emphasis is placed upon the human processing of accounting information, the decision value of information, and the development of decision aids or heuristics. Prerequisite: Permission of Doctoral advisor in Accounting.

ACG 7837 Seminar: Behavioral Research in Accounting-Human Groups and Systems (AC) (3). The multifarious behavioral relationships of groups within the formal and informal organizational structure are examined with respect to performance measurement (efficiency and effectiveness), accountability, planning and control of the development of decision support systems. Prerequisite: Permission of doctoral advisor in Accounting.

ACG 7886 Seminar: Empirical Research Methodology and Paradigms in Accounting (AC) (3). Study of research design, methods of data collection and analysis and problems of measurement in accounting research. Empirical research studies in accounting are integrated throughout to illustrate and analyze the structural problems of research design as well as the strengths and weaknesses of various acceptable paradigms. Prerequisite: Permission of doctoral advisor in Accounting.

ACG 7887 Research Forum and Workshop (AC) (1). Regularly scheduled workshop at which visiting scholars as well as faculty and doctoral candidates present and evaluate research papers. Candidates are expected to participate in discussions, act as discussants and present their own research for critique. Sessions are held for structuring and brainstorming research projects in the formative stages as well as for presenting completed efforts. Prerequisite: Permission of doctoral advisor in Accounting.

ACG 7888 Seminar: The Philosophy of Science, Theory Construction, and Verification in Accounting (AC) (3). An examination of knowledge, theories, scientific explanation and prediction as related to the social sciences. Various theories of accounting are critically examined from the standpoint of theory construction and verification in the philosophy of science. Prerequisite: Permission of doctoral advisor in Accounting.

ACG 7889 Seminar: Positive Theory Research in Accounting (AC) (3). Construction of theory to explain accounting and auditing practices in an environment of regulation using empirical research findings from a growing body of economic-based research in accounting and finance. Prerequisite: Permission of doctoral advisor in Accounting.

ACG 7896 Accounting Research Methods on Capital Markets (AC) (3). An advanced accounting graduate course in current time series methods used to analyze capital and other time-related financial markets. This course is designed for Ph.D. students in accounting and business who already have advanced statistical and financial training, and serves as an introduction to other doctoral courses. Prerequisite: Permission of doctoral advisor in Accounting.

ACG 7906 Independent Study (AC) (1-12). Supervised accounting research projects determined by professor and student. May involve conferences, supervised reading and reports. Consent of sponsoring professor and admission to the Ph.D. program. (on demand)

ACG 7938 Seminar: Special Topics in Accounting Research (AC) (3). Topics vary according to instructor and student interest in problems and issues on the frontier issues of accounting. Prerequisite: Permission of doctoral advisor in Accounting.

ACG 7980 Ph.D. Dissertation (AC) (1-12). Original research that is supervised by a faculty committee and defended openly before the university committee. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

ACG 7981 Dissertation Preparation (AC) (1-12). Preparatory background research and study to begin development of dissertation proposal. Students should be able to complete proposal by end of the course. Prerequisite: Completion of TIER 1 courses. (on demand)

BUL 5661 Law for Accountants (AC) (3). A survey of select topics of direct interest to accounting students, including contracts, sales, agencies, partnerships, corporations.

BUL 5662 Accountant's Liability (AC) (3). Overview of accountant exposure to private and public sector liability suits, independent in auditor engagements, securities regulations and other state and federal laws of chief concern to accountants.

BUL 6605 Healthcare Fraud and Abuse Law and Regulation (AC) (3). This course is intended to cover the healthcare fraud and abuse laws and management of issues related to the prosecution and defense in federal and state systems. Prerequisite: BUL 6810.

BUL 6810 Legal Environment of Business (AC) (3). Examines current legal, regulatory, ethical, and political issues within the context of public law. Topics include employment, antitrust, administrative, cyberlaw, and contracts and tort.

BUL 6821 Cyber Law (AC) (3). Cutting edge issues of relationship between business/society and legal issues impacting internet usage in e-commerce and topics include intellectual property, business and finance, privacy and social issues. Prerequisites: BUL 4310 or BUL 4320 and graduate standing.

BUL 6830 Survey of Business Law (AC) (3). Overview of substantive and procedural aspects of contract law, U.C.C., partnerships and corporations, accountant's liability, and other aspects of government regulation of business. Prerequisites: Admission to a graduate program in the School of Accounting, or permission of the Director of the School of Accounting. Not open to those with undergraduate accounting degrees.

BUL 6850 International Business Law (AC) (3). Analysis of legal problems facing the U.S. international and multinational businesses. Topics include the transnational research of economic regulation, international trade and investment, antitrust law, technology transfers, and securities law.

BUL 6890 Special Topics in Business Law (AC) (1-6). Intensive study for groups of students of a particular topic, or a limited number of topics, not otherwise offered in the curriculum. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

BUL 6906 Independent Study in Business Law (AC) (1-6). Individual conferences; supervised readings; reports on personal investigations. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

COP 7545 File and Database Management Systems (IS) (3). Fundamentals of database concepts and methodologies, including data representation, data modeling, and file organization. Prerequisite: Graduate standing. (on demand)

ECP 6432 Macroeconomic Forecasting for Management (EC) (3). Basic macroeconomics concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6705. (F,S,SS)

ECP 6705 Managerial Economics (EC) (3). Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries. Prerequisites: ECO 3021 and ECO 3011.

FIN 5307 Financial Markets and Analysis (FI) (3). Financial Institutions, Financial Investments, Financial Planning and Analysis, International Financial Perspectives.

FIN 5495 Leasing and Mergers (FI) (3). Discussion-oriented course will provide an analytical foundation to corporate development, strategies, and resource allocation decisions. Merger activity and leasing decisions will be viewed as strategic decisions by the firm to enable them to achieve corporate objectives. Prerequisites: FIN 3414 or FIN 6406, or equivalent.

FIN 6246 Financial Markets and Institutions (FI) (3). Analysis of the characteristics and efficiency of the money markets and capital markets. Types of money market and capital market instruments, and the role of financial institutions in these markets. Prerequisite: FIN 6406.

FIN 6325 Current Issues in Commercial Banking (FI) (3). Main policy issues in commercial banking and the role of regulatory authorities. Presentation includes bank mergers and holding companies; national bank branching; and the present structure and prospects of the financial sector. Prerequisites: FIN 6326 or equivalent. (on demand)

FIN 6326 Commercial Banking (FI) (3). The objectives, constraints, and policies applicable to the management of commercial banks. Emphasis will be given to asset and liability management, marketing of services and other banking functions. Prerequisite: FIN 6406.

FIN 6346 Credit Analysis (FI) (3). This course examines how the accounting framework is integrated with tools and techniques for the analysis and interpretation of financial statements. Evaluation of risk in domestic and foreign loans and the pricing of credit facilities. Prerequisite: FIN 6406.

FIN 6406 Corporate Finance (FI) (3). In-depth examination of asset, liability and capital structure management, with emphasis on valuation capital budgeting techniques; risk evaluation; working capital management; and methods of short-term, intermediate and long-term financing. Prerequisites: ACG 6026 or equivalent.

FIN 6418 Working Capital Management (FI) (3). Intermediate theories and techniques of cash, accounts receivable, inventory, and accounts payable management. Prerequisite: FIN 6406.

FIN 6425 Financial Management Policies (FI) (3). Advanced theories and applications underlying financial decision making. Case studies and model building. Topics may include valuation, capital structure, dividend policy, restructuring, mergers and acquisition, corporate bankruptcy, agency theory, and initial public offerings. Prerequisite: FIN 6406.

FIN 6436 Capital Budgeting and Long Term Resource Allocation (FI) (3). The theory of capital allocation at the level of the firm, and empirical findings. Decision models and their application. The pattern of capital expenditure of industries and of the economy as a whole. Investment determinants. Prerequisite: FIN 6406.

FIN 6446 Competitive Strategy (FI) (3). Provision of tools for managerial decision-making in a variety of competitive environments including demand analysis, short- and long-run costs of production, demand for factors, market structure and competitive strategy.

FIN 6455 Financial Modeling and Forecasting (FI) (3). An introduction to Financial Modeling and Forecasting. Emphasis is on computer models and forecasting the financial variables. Prerequisites: Permission of the instructor and FIN 6406.

FIN 6456 Quantitative Methods in Financial Analysis (FI) (3). Introduction to mathematical and statistical methods used in finance. The applications of computer techniques to financial management. Prerequisites: FIN 6406 or equivalent.

FIN 6457C Financial Innovations (3). This course covers innovations in FinTech, cryptocurrencies and blockchains, smart contracts and decentralized applications, alternative lending, P2P technology, and machine learning in robo-advising. Prerequisite: FIN 6406, FIN 6456

FIN 6465 Financial Planning and Statement Analysis (FI) (3). Examination of fundamental analysis of corporate financial planning and financial statements. Identification

of reliable estimates of fundamental corporate earning power and earning risks and valuation.

FIN 6466 Financial Analytics (FI) (3). Application of statistical and data analysis techniques and software tools to large financial data sets to help make informed financial and investment decisions. Prerequisite: FIN 6406, FIN 6456 or equivalent

FIN 6477 Entrepreneurial Finance (FI) (3). The course covers how to raise capital for a new venture, maximize the value in a growing venture, and forecast and manage financial performance/cash-flow of a growing enterprise. Prerequisite: FIN 6406.

FIN 6487 Financial Risk Management -Financial Engineering (FI) (3). A survey of financial instruments used for financial risk management, including forwards, futures, options and swaps. Emphasis is on identification of financial risks and designing optimal risk management program. Prerequisites: FIN 6425 or FIN 6515.

FIN 6489 Advanced Financial Risk Management (FI) (3). This course examines advanced issues in options and financial engineering, including quantitative aspects of options models credit risk instruments, and how to develop new securities. Prerequisites: FIN 6487 or equivalent.

FIN 6515 Securities Analysis (FI) (3). An analysis of securities and the organization and operation of their markets. The determination of the risk reward structure of equity and debt securities and their valuation. Special emphasis on common stocks. Other topics include options, mutual funds and technical analysis. Prerequisite: FIN 6406.

FIN 6517 Advanced Investments (FI) (3). This course examines advanced topics in equity and fixed income investments as well as portfolio theory. Emphasis is on theories and applications in the valuation and management of equity and fixed income instruments both locally and globally. Prerequisites: FIN 6516 and FIN 6537 or equivalent.

FIN 6525 Portfolio Management (FI) (3). Practical and theoretical problems associated with the techniques of optimal portfolio selection, construction, and revision. The portfolio objectives of individuals, corporations and funds. Measurement of portfolio performance and related empirical evidence. The role of computers in portfolio management. Prerequisite: FIN 6515.

FIN 6537 Financial Futures and Fixed Income Investments (FI) (3). An examination of the structure, uses, and strategies associated with financial futures markets. Valuation, hedging, speculative activity, and other futures related risk management issues are discussed. The varieties of fixed income securities and their default risk. The valuation of fixed income securities and their use in the investment and risk management. Prerequisites: FIN 6246 or FIN 6515.

FIN 6550 Behavioral Finance and Market Microstructure (FI) (3). Behavioral finance studies how human behavior affects investment and financial decisions by including biases and dependence. Market micro-structure examines intraday price, volume and volatility behavior. Prerequisite: FIN 6406.

FIN 6596 Machine Learning Applications in Finance (3). The course covers applications of machine learning (ML) in Finance and provides students with skills for implementing financial models in Python. Prerequisite: FIN 6406, FIN 6456.

FIN 6625 International Bank Management (FI) (3). Management of the international banking function; setting goals and developing strategies, establishing an organizational structure and managing operations. International banking services. Foreign lending, risks, restraints, and portfolio considerations. International banking trends and implications for regulation. Prerequisite: FIN 6406.

FIN 6626 International Bank Lending Policies and Practices (FI) (3). Organization of the lending function and examination of the basic types of international lending: trade financing, loans or placements to foreign banks, loans to governments and official institutions, and loans to businesses. Syndicated bank loans. Documentation and legal considerations in foreign lending. Assessing and managing risk in the international loan portfolio. Prerequisite: FIN 6406.

FIN 6636 International Finance (FI) (3). A comparative study of the institutional characteristics and internal efficiency of developed and underdeveloped capital markets. The relationships between world and capital markets and prospects for integration. The role of multilateral institutions, multinational corporations, states, and the structure of trade in the international short and long term capital flows. The development of financial centers. Prerequisites: FIN 6406 or equivalent.

FIN 6638 International Capital Markets (FI) (3). An exhaustive study of the current institutional aspects of the financial and monetary systems of the developed and emerging markets. Topics will include detailed discussions of capital markets including stock exchanges and the international asset pricing models. Prerequisites: FIN 6406 or permission of the instructor.

FIN 6644 Global Financial Strategy (FI) (3). Aspects of strategic financial environment and management of firms that operate in a global arena; to include recent developments in financial strategy, international trade and economic decision making. Prerequisite: FIN 6406.

FIN 6645 Global Finance for Executives (FI) (3). Deals with the theoretical and empirical aspects of the financial management of firms that operate in an international business environment. Prerequisite: FIN 6406.

FIN 6656 Latin American Financial Markets and Institutions (FI) (3). An evaluative overview of the money and capital markets in Latin America. Topics include review of the most recent literature on regulation and deregulation, globalization, regional markets, privatization, banking innovations, the role of foreign banks, and currency boards in Latin America. Applicable cases will be discussed. Prerequisite: FIN 6406.

FIN 6776 Financial Software (FI) (3). Covers the application of financial software and institutional financial data systems. It includes application in excel, learning model, simulation, option analysis, trading models, and other FS analysis programs. Prerequisite: FIN 6246.

FIN 6779 Big Data and Analytics in Finance (3). The course introduces big data concepts and analytic techniques for finance. Students learn tools to extract

information, analyze, translate, and present the findings for enhanced financial valuation. Prerequisite: FIN 6406, FIN 6456

FIN 6804 The Theory of Finance (FI) (3). The study of the development of the theory of finance and its implications for the financial decisions made by the manager of business firms. Topics include: utility theory; capital budgeting; portfolio theory; capital market equilibrium; multi-period valuation; and the cost of capital. Financial decision making is explored under both certainty and uncertainty and within the context of both perfect and imperfect markets. Prerequisites: FIN 6406 or equivalent.

FIN 6906 Independent Study in Finance (FI) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor and Department Chairperson required.

FIN 6915 Master's Project in Finance (FI) (1-6). An individualized research project and report, which may include field experience with a firm or agency; library research; computer programming; or project development. The course should be taken during the last half of the student's graduate program. Consent of faculty tutor and Department Chairperson required.

FIN 6936 Special Topics in Finance (FI) (1-3). For groups of students who desire intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

FIN 6943 Finance Internship (FI) (1-3). Student placement within a financial institution, business firm or other organization for the purpose of providing practical experience to supplement theoretical classroom instruction. Periodic reports and conferences required. Permission of the instructor and Department Chairperson.

FIN 7527 Seminar in Investments (FI) (3). Examines analysis and measurement problems of investments. Includes the application of statistical techniques, current theoretical issues and empirical literature. Prerequisite: Permission of the instructor.

FIN 7536 Seminar in Futures Markets (FI) (3). A comprehensive examination of the literature in futures markets. Emphasizes the structure and pricing of futures, and risk-management via hedging and arbitrage. Prerequisite: Permission of the instructor.

FIN 7606 International Corporate Finance (FI) (3). The study of topics of research interest to international financial decisions. Topics include foreign exchange risk, international financial markets, and foreign exchange market efficiency. Prerequisite: Permission of the instructor.

FIN 7807 Seminar in Corporate Finance (FI) (3). Familiarizes students with recent developments in finance theory. Includes such topics as the influence of leverage, uncertainty and the cost of capital, agency theory and related topics. Prerequisite: Permission of the instructor.

FIN 7808 Financial Theory I (FI) (3). This course focuses on the theory of financial decision-making under certainty and risk. Includes investment under uncertainty, capital structure, dividend, asset valuation, and options pricing. Prerequisite: Permission of the instructor.

FIN 7809 Financial Theory II (FI) (3). This course focuses on the theory of financial decision-making under certainty and risk. Includes investment under uncertainty, capital structure, dividend, asset valuation, and options pricing. Prerequisite: Permission of the instructor.

FIN 7810 Financial Theory III (FI) (3). This sequel to Financial Theory I and II focuses in on microfinance. Discusses issues primarily in corporate finance such as effects of taxation, agency theory, and signaling theory. Prerequisite: Permission of the instructor.

FIN 7811 Seminar in Financial Markets and Institutions (FI) (3). Examines recent developments in economic and financial theories as applied to topics such as the structure of financial markets and the economics of information and financial institutions. Prerequisite: Permission of the instructor.

FIN 7812 Seminar in Options and Contingent Claims (FI) (3). An examination of the theories of option valuation and arbitrage pricing, and their applications to security analysis, portfolio management and financial instrument valuation. Prerequisite: Permission of the instructor.

FIN 7816 Seminar in Portfolio Theory (FI) (3). Examines investment and portfolio theory, with emphasis on the historical development of the literature in this area and the recent analytical and empirical work. Prerequisite: Permission of the instructor.

FIN 7818 Foundations of Financial Models (FI) (3). Introduction to mathematical and economic models underlying the development of modern finance theory. Includes discrete and continuous time models in finance using stochastic calculus. Prerequisite: Permission of the instructor.

FIN 7845 Statistical Methods in Finance I (FI) (3). Estimation, and testing of various economic and financial models. Emphasis on econometric techniques to deal with various problems of single-equation models and introduction to simultaneous equation. Prerequisite: Instructor's permission.

FIN 7846 Statistical Methods in Finance II (FI) (3). Emphasis on econometric techniques and multivariate statistics as applied in finance. Includes simultaneous equation models, multiple discriminant analysis and factor analysis. Prerequisite: Instructor's permission.

FIN 7855 Financial Economics I (FI) (3). An advance doctoral course covering selected advanced topics in microeconomic foundations and other topics related to business. Emphasis will be on economics of uncertainty, agency problems, information and signaling. Prerequisites: ECO 7115 or permission of the instructor.

FIN 7856 Financial Economics II (FI) (3). An advanced doctoral course covering selected advanced topics in the theory of macrofinance. Emphasis will be on financial intermediation. Prerequisites: ECO 7206 or permission of the instructor.

FIN 7906 Finance Doctoral Independent Study (FI) (1-6). Supervised research projects determined by professor and student. May involve conferences, supervised reading, and reports. Prerequisites: Consent of sponsoring professor and Chairperson required. (on demand)

FIN 7916 Finance Doctoral Research Project (FI) (1-6). Intensive research project conducted during the summer following the student's first and second years of coursework. Each student develops his/her own research project under the supervision of a faculty member. Prerequisite: Graduate standing. (on demand)

FIN 7936 Finance Doctoral Seminar (FI) (3). College colloquium series featuring presenters from various academic disciplines and businesses. Prerequisite: (on demand).

FIN 7980 Ph.D. Dissertation (FI) (1-12). Original research that is supervised by a faculty committee and defended openly before the university committee. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

FIN 7981 Finance Dissertation Preparation (FI) (3). Preparatory background research and study to begin development of dissertation proposal. Students should be able to complete proposal by the end of the course. Prerequisites: Completion of TIER 1 courses. (on demand)

GEB 6368 Navigating in a Globalizing World (IB) (8). Concepts and issues from macroeconomics, accounting, international law, political science, finance, and international business give broad but insightful perspectives about complex and ambiguous world.

GEB 6507 Finance for HR Professionals (GM) (1). Provides a broad overview of the key financial terms, tools, and reports used in organizations. For an HR audience, it focuses on the financial knowledge that is most critical for HR professionals.

GEB 6528 Organizational Processes that Deliver Economic and Social Value (BA) (8). This course examines the internal workings of an organization to identify, analyze, correct, and create structures that enable performance.

GEB 6529 Creating Economic and Social Value (BA) (8). This interdisciplinary business course focuses on concepts, techniques, and experiences that result in a better understanding of complex and ambiguous work of delivering customer utility.

GEB 6896 Strategy Development and Implementation (IB) (8). This strategy course integrates strategic planning models and focuses on the implementation of business strategies in various stages of the firm's life-cycle through case study and project work.

GEB 6941C Graduate Business Internship (GM) (3-6). This program allows graduate students to work in jobs significantly related to their major area of study and career goals. This is supervised work with carefully designed and monitored work assignments. Specific placement must be approved by the faculty advisor prior to enrollment. Work performed on the current job cannot be used for internship credit. Prerequisite: Graduate Students.

GEB 7365 International Business Theory and Practice (IB) (3). This course provides the theoretical foundation needed to understand internationalization of firms from developed and developing countries.

GEB 7366 Financial Issues in the Global Environment (IB) (3). This course provides students a rigorous background in finance and helps them understand international macroeconomic factors and their effects on businesses.

GEB 7876 Marketing and Behavioral Theory (BA) (3). This course investigates the development and evolution of marketing-theory development.

GEB 7892 Theory Development (BA) (3). This course covers the methods and approaches to creating theory, validation and testing, and dissemination of knowledge.

GEB 7897 Advanced Statistical Analysis and Structural Equation Modeling (3). This course covers advanced tools to analyze quantitative empirical data, with a particular emphasis on second-generation statistical approaches and advanced techniques necessary for applied research. Prerequisites: QMB 7910 and GEB 7910

GEB 7910 Advanced Quantitative Research Methods in Business (BA) (3). This course explores advanced methods in quantitative research such as surveys and sample techniques, parametric and nonparametric tests, structured equation modeling, and time series analysis.

GEB 7911 Qualitative Research Methods in Business (BA) (3). This course introduces a structured approach to qualitative research in business. It includes study of methods such as case studies, ethnography, archival studies, and action research.

GEB 7912 Experiments and Survey Design (BA) (3). This course introduces students to methods and practices for developing and using data based on experiments and surveys for research.

GEB 7913 Summer Research Project and Qualifying Examination (3). Research project during the summer following the student's first year of coursework. Each student conducts research project under supervision of a faculty member. Serves as doctoral qualifying exam. Prerequisite: MAN 7916

GEB 7915 Advanced Qualitative Research Methods in Business (BA) (3). This course compares a variety of qualitative research techniques. Students will review contemporary and classic studies that employ qualitative methods in both theoretical and applied contexts.

GEB 7918 Philosophy and Process of Applied Business Research (BA) (3). This course introduces the fundamental philosophy and development process of managerial business research.

GEB 7927 COB Doctoral Colloquia (BA) (1). This is a required course for all COB doctoral students. Topic range from research-specific issues to career planning and entrance to the Academy. Prerequisite: Admission to COB doctoral program

GEB 7981 DBA Dissertation Preparation (1-12). Preparatory background research and study to begin development of dissertation proposal. Students should be able to complete proposal by end of the course. Prerequisite: Approval of FIU Business Director of Doctoral Programs

GEB 7982 DBA Dissertation (1-12). Original research that is supervised by a faculty committee and defended openly before the university committee. Prerequisites: Permission of Major Professor and Doctoral Candidacy. Completion of all prescribed DBA curriculum and approval of FIU Business Director of Doctoral Programs

HIM 5065 Introduction to Health and Health Informatics (IS) (3). Concepts of health, delivery of health services, role and impact of health informatics. Focus on legislative mandates for health IT, health, health IT standards, and health-related data structures.

HIM 6019 Legal and Ethical Aspects of Healthcare (IS) (3). This course focuses on a board range of legal and ethical issues as they apply to areas of management and use of computer-based technology and info systems in the delivery of healthcare services.

HIM 6124 Technical and Data Architectures and Standards for Health Care (IS) (3). The course integrates key issues and techniques surrounding technical infrastructure and data architecture in health informatics, and the role of information standards and ontologies in health care.

HIM 6125 Healthcare Informatics and Analytics Capstone (IS) (3). The course provides integrative experience for students to apply system and critical thinking skills in mapping, analyzing and redesigning strategy, process and technology in real-world HIA contexts. Prerequisite: All courses in the MC in Healthcare Informatics and Analytics Program.

HIM 6267 Foundations of Health Informatics & Analytics Administration (1). As related to health informatics, provide understanding of the landscape of healthcare. Addresses managerial and administrative aspects and basic skills for producing health informatics work products.

HIM 6517 Healthcare Project Management (IS) (3). Course covers defining characteristics of healthcare information systems projects. Introduces relevant project management techniques to facilitate scope, time, cost, and resource functions.

HIM 6527 Healthcare Information Security and Privacy (3). This course covers the regulatory, technical and organizational aspects of privacy and security in health care settings.

HIM 6627 Health Care Information Management (IS) (3). This course studies IT concepts and techniques that facilitate fact-based decision making through information and management systems in health care organization and introduce students to the use of healthcare informatics in managing quality, safety and outcomes of healthcare.

HIM 6628 Health Data Visualization (IS) (3). Course covers technical and theoretical skills necessary to practice data visualization techniques on healthcare data. Prerequisite: QMB 6357

HIM 6682 Quality and Outcome Analytics (IS) (3). Use of analytical techniques to assess healthcare quality and outcome perspectives, taking into account patients, providers, payors, standard setting organizations, and healthcare policy makers. Prerequisite: QMB 6357

HIM 6685 Clinical Information Systems (IS) (3). Course provides an in-depth study of the clinical information systems concepts and components, including electronic health records and other health information technology (HIT) systems.

HIM 6694 Consumer Health Informatics (CHI) (IS) (3). Analyses of consumers' needs for information; review methods of making information accessible to consumers; as well as model and integrate consumers' preferences into medical information systems.

HIM 6858 Health Informatics/Analytics Practicum (IS) (0-3). Program enabling masters-level students to work in jobs significantly related to health informatics and/or analytics their major area and career goals.

HIM 6865 Healthcare Database Systems (IS) (3). Course covers database structure, conceptual models, SQL database query language, and implementation processes in support of health information technology (HIT) systems.

HIM 6937 Special Topics (IS) (3). This course focuses on health informatics specialty areas, such as genomics and bioinformatics.

HIM 7118 Seminar on Health Informatics and Healthcare IT Research (IS) (3). This doctoral seminar will concentrate on the field concerned with the acquisition, storage, and use of information in health and biomedicine.

ISM 6021 Management of Information Systems (IS) (3). Review of foundations and methodologies for analysis of existing and proposed systems, to include, feasibility assessment, design, development, and implementation.

ISM 6024 Managing Distributed Architectures (IS) (3). Students will consider the organizational and technical challenges involved in implementing distributed business processes across multiple organizational units.

ISM 6045 Current Economic and Social Implications of Information Systems (IS) (3). Effects and implications of socioeconomic factors in the operation of information systems and interdependence with the legal and international business environment. Privacy and fraud; computer system purchase and lease contracts; economics of system design, selection and operation; electronic fund transfers and mail; international considerations. Prerequisites: MAN 3025.

ISM 6057 Web Management (IS) (3). This course provides students with techniques to manage and develop web projects including development environments, linkage between client and database. The course is designed to assist students in understanding how to manage and use web related techniques in an organization.

ISM 6106 Systems Analysis (IS) (3). Study of the systems approach to problem solving as it applies to any area of specialization, including; boundaries and constraints identification, resources requirements, and component analysis.

ISM 6128 Business Process Design (IS) (3). The course covers fundamentals concepts, principles, and techniques that can be used to improve business performance through the analysis, modeling and design of the as-is and the to-be business processes.

ISM 6136 Business Analytics Applications (IS) (3). This course covers business analytics skills required to conduct both pattern discovery (e.g., segmentation and association) and predictive modeling (e.g., decision trees and neural network mining). Prerequisites: QMB 6357

ISM 6155 Information Systems Development (IS) (3). Concepts and methods used in the analysis and design of

MIS. Feasibility study, system flow charting, data requirements analysis, data design, user friendly systems design. Systems design project. Prerequisites: MAN 6830 or equivalent.

ISM 6156 Enterprise Information Systems (IS) (3). Introduces concepts of enterprise-wide computing, information architecture, process design, data models, and client/server computing.

ISM 6157 Enterprise System Configuration (IS) (3).

ISM 6158 Enterprise-Wide System Administration (IS) (3). This course will expose students to key aspects involved in the implementation and operation of the R/3 system and will provide the technical and conceptual foundation necessary for developing appropriate strategies and approaches for implementation and maintenance of an enterprise-wide system.

ISM 6159 Global Enterprise Management and Strategy (IS) (3). Global Enterprise Systems consist of 3 major components: Enterprise Resource Planning, Supply Chain Management, and Customer Relationship Management. This course examines each of these systems and explores how they support and overall business strategy.

ISM 6205 Database Management (IS) (3). Review techniques for structuring and managing data in organizations. Discusses data concepts, data modeling, database requirements definition, conceptual, logical, and physical design, and admin.

ISM 6208 Data Warehousing (IS) (3). Data Warehousing and Online Analytical Processing tools will be utilized to organize and analyze large volumes of data in order to explain the past, monitor the present, and anticipate the future.

ISM 6217 Data Management, Strategy, and Governance (IS) (3). A high-level overview of data management, strategy, and governance approaches to understand, collect, visualize, and manage data and integrate disparate data from different business. Prerequisite: ISM 6205.

ISM 6222 Telecommunications Network (IS) (3). This course will focus on providing the student with fundamental understanding of the various concepts involved in modern data communication and networking installations, along with its implications in the design of information systems.

ISM 6225 Global Applications of Information Technology (IS) (3). Examines information technology use in the international arena, e.g. for communication within a multinational corporation, or communication with customers, suppliers in another country. Topics include: transborder data flow; global connectivity through telecommunications; IT transfer across national boundaries, management of IT in multinational corporations; case studies or global IT use. Prerequisites: MAN 6830 or equivalent.

ISM 6251 Emerging Information Technologies (IS) (3). This course covers emerging information and communication technologies that are changing the way the business is being operated in global economy.

ISM 6267 Secure Cloud Computing and Virtualization Management (3). The course focuses on the concepts and best practices of secure cloud infrastructure and standards critical to design, implement, deliver, and manage secure cloud services and virtualization.

ISM 6305 Information Systems Planning (IS) (3). Overview of the technology acquisition process to define business needs, discover requirements, evaluate technology solutions, select vendors, and manage technology solution implementation.

ISM 6307 Management of the Information Systems Function (IS) (3). Develop new CIO competencies: how enterprise competes or provides services, manage the IS organization like a business, and skills to gain support for incentives and maintain momentum in innovation.

ISM 6316 Project Management (IS) (3). Examination of defining characteristics of projects and introduces a variety of relevant techniques. Includes project manager functions like managing scope, time, quality, and cost.

ISM 6325 Ethical Hacking for Business (IS) (3). This course focuses on conducting ethical hacking to proactively secure organizational information assets from cyberattacks and to address the identified security vulnerabilities.

ISM 6326 Information Security and Compliance (IS) (3). Provides knowledge and skills needed to protect enterprise assets by mitigating IS/IT related security risks. An exposure to IS/IT security-related Laws, Regulations, and Compliance is also provided. Corequisite: ISM 6222.

ISM 6327 Protecting and Defending Business Digital Assets (IS) (3). This course covers the technical controls needed to enforce security policy and manage cybersecurity risks to secure information systems and digital assets for business.

ISM 6328 Information Security Management (IS) (3). Provides knowledge and skills needed to protect enterprise assets by mitigating IS/IT related security risks. Includes application of telecommunication technology and concepts.

ISM 6338 Information Systems Strategy and Governance (IS) (3). From the perspective of the CIO, students will develop and understanding of the strategic use of IS and how to define and implement IS governance to support business/IS alignment and value creation.

ISM 6404 Business Data Visualization and Reporting (IS) (3). Introduction to reporting and data visualization principles and techniques to support business decision-making and information reporting needs utilizing operational, accounting and financial data. Prerequisite: QMB 6357

ISM 6419 Business Cybersecurity Data Visualization and Reporting (3). Concepts and practical applications of data visualization techniques to uncover hidden patterns of data, identify emerging vulnerabilities and attacks, and manage business cybersecurity risk.

ISM 6423 Knowledge Management (IS) (3). This course explores the basic concepts of managing organizational intellectual capital, including appropriate information technologies ranging from Intranets to Artificial Intelligence.

ISM 6427 Artificial Intelligence Strategy (IS) (3). Artificial intelligence methods to analyze and extract useful

information from unstructured data to provide real-time knowledge to incorporate artificial intelligence into the business strategy.

ISM 6489 E-Business and Blockchain Applications (IS) (3). Students will gain the knowledge needed to manage and develop web and mobile applications for electronic business and blockchain application.

ISM 6507 Electronic Commerce Strategy (IS) (3). This course will teach students strategies for the electronic commerce landscape to help them develop and execute a business plan for creating an e-business startup. Prerequisites: Technology of EC; ISM 6316.

ISM 6575 Security Risk Management and Organizational Cyber Resilience (IS) (3). This course covers the principles of risk management for cybersecurity, and examines tools and mechanisms for assessing, controlling and transferring cybersecurity risks to ensure business continuity.

ISM 6576 Cybersecurity Governance and Strategy (3). The course focuses on the cybersecurity leadership issues and the development of cybersecurity governance and strategies that align with IT and business strategies.

ISM 6930 Special Topics in Management Information Systems (IS) (1-6). To study the recent developments in the MIS field not otherwise offered in the curriculum, such as office automation, computer graphics, etc. Prerequisites: Advanced standing and department chairman approval.

ISM 6942 MIS Internship (IS) (1-3). Student placement within a business firm or other organization for the purpose of providing practical experience to supplement theoretical classroom instruction.

ISM 7083 Deterministic Decision Models (IS) (3). This course deals with the optimal decision making and modeling of deterministic systems that originate from real life. These applications, which occur in government, business, engineering, economics, and the natural and social sciences, are largely characterized by the need to allocate limited resources.

ISM 7087 Probabilistic Decision Models (IS) (3). This course deals with the optimal decision making and modeling of probabilistic systems that originate from real life. These applications, which occur in government, business, engineering, economics, and the natural and social sciences, are largely characterized by the need to allocate limited resources.

ISM 7126 Design Science Research (IS) (3). Doctoral seminar surveying of the technical side of the Information Systems (IS) research field, typically referred to as Design Science Research (DSR).

ISM 7152 Seminar on System Acquisition and Implementation (IS) (3). Theory and research on methodologies, tools, and techniques for acquiring, developing, and implementing information systems in organizations.

ISM 7306 Individual and Group Applications of IS Research (IS) (3). Doctoral seminar reviews key issues and challenges associated with the implementation and introduction of information systems at the individual and group levels within an organizational environment.

ISM 7345 Organizational and Strategic Applications of IS Research (IS) (3). Doctoral seminar surveys theory and research specific to organizational and strategic impacts of information systems.

ISM 7406 Business Analytics Research (IS) (3). Theory and research on business analytics. Integrating models and data with a technological delivery systems that support data quality, data integration, unstructured problem-solving, and so on.

ISM 7906 Independent Study for Doctoral Students (IS) (1-12). Supervised research projects determined by professor and student. May involve conferences, supervised reading, and reports. Prerequisites: Consent of sponsoring professor and chairperson. (on demand)

ISM 7931 Organizational Theories in IS Research (IS) (3). Doctoral seminar reviews long standing and newly emerging organizational theoretical perspectives applied within the information systems (IS) field.

ISM 7932 Seminar on Research in Managing Distributed Operations (IS) (3). This seminar examines research issues arising as a consequence of global distribution of operations, as enabled by ICT and globalization of business.

ISM 7933 Seminar on Research in Measurement and Valuation in Knowledge Economy (IS) (3). Examination of research on measurement and valuation of digital, knowledge, and relationship assets in knowledge economy.

ISM 7934 Business as Dynamic Systems (IS) (3). This seminar course provides a systems theoretic framework for understanding and analyzing organizations. Hard and Soft Systems, Systems Dynamics, Complexity Theories are examined.

ISM 7935 Research in Information Systems (IS) (3). The research process in information systems: defining research questions, reviewing the literature, strategies for empirical investigation, methodological alternatives, and presenting research findings. Prerequisite: Permission of the instructor.

ISM 7936 Systems and Software Engineering Research (IS) (3). Doctoral seminar examining research and theory on the acquisition, development, implementation of information systems.

ISM 7937 Seminar on Research in Emerging ICT and their Implications (IS) (3). This seminar will examine research on emerging information technologies, their application, and their implications for organizations and strategy.

ISM 7938 Seminar on Research in Collaborative and Competitive Strategies in Global Economy (IS) (3). This seminar course examines research in emerging strategic transition from competitive to cooperative strategies in the context of internationalization and globalization.

ISM 7980 Ph.D. Dissertation (IS) (1-12). Original research that is supervised by a faculty committee and defended openly before the university committee. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

ISM 7981 Dissertation Preparation (IS) (1-12). Preparatory background research and study to begin development of dissertation proposal. Students should be able to complete proposal by end of the course. Prerequisite: Completion of TIER 1 courses. (on demand)

MAN 6057 Managing Innovation (IB) (3). This course explores the process of managing innovation. In today's global marketplace, competition from all over the world forces firms to continuously upgrade their product offerings and ways of doing business. This course discusses how to be more creative, how to manage creatively, and how to implement innovation.

MAN 6095 Management of Healthcare Organizations in the 21st Century (GM) (3). This course explores the use of evidence-based management for effective planning and decision-making by today's healthcare managers.

MAN 6097 Managerial Decision-Making in Health Economics (BA) (3). Managerial health economics focuses on supply and demand of health resources and the constraints that limit them. Governmental roles in public health also are analyzed. Prerequisite: Admission into HCMBA.

MAN 6098 Management of Healthcare Finance and Reimbursement (BA) (3). In this course, the history of financing models for health delivery systems are analyzed and evaluated. Reimbursement includes insurance, governmental assistance and the affordable care act. Prerequisite: Admission into HCMBA.

MAN 6121 Interpersonal Behavior and Analysis (GM) (3). A human interaction/human relations training laboratory, designed to increase both self-awareness and understanding of behavior dynamics in groups. Course is intended to enable students to broaden their conceptual understanding of human interpersonal communications and conflict.

MAN 6157 Wellness Management (GM) (3). This course focuses on the management of employee well-being, broadly defined and including safety, security, mental, attitudinal, and health-related outcomes.

MAN 6167 Leadership in a Global Environment (GM) (3). The course is designed to provide the student with a clear understanding of current thinking in the area of leadership. It focuses on the holistic nature of leadership and the impact leaders have on individuals, groups, and organizations.

MAN 6209 Organization Design and Behavior (GM) (3). Covers how managers interact with organizations to accomplish complex tasks by examining how strategy, structure and systems interact with behavioral variables.

MAN 6245 Organizational Behavior (GM) (3). Individual, interpersonal, and small group behavior in complex organizations. Focus on behavior, its causes, and management interventions to improve organizational effectiveness. Research methods to study organizational behavior.

MAN 6265 Group Processes in Organizations (GM) (3). The social and psychological processes of organizational functioning. The roles played by small groups in organizational settings.

MAN 6295 Conflict in Organizations (GM) (3). A critical examination of the role and impact of interpersonal and intergroup conflict in organizations. Models as approaches to utilizing and resolving conflict toward constructive personal and organization ends will be emphasized.

MAN 6297 Labor Issues and Conflict Management (GM) (3). Covers skills to enhance resolution in union disputes. Teaches students methods to productively manage labor disputes between parties including legal issues in labor law and employee relations.

MAN 6311 Advanced Personnel Management (GM) (3). Attention is focused on the theory and practice of modern personnel management, as related to other management functions. Topics include selection; training; job and performance evaluation; and incentive schemes. Special attention is given to human resources management and development at various organizational levels.

MAN 6316 Human Resource Analytics (GM) (3). This course focuses on the linkage between human resources and the organization's financial plan. This includes budgeting, controlling, and measuring HRM impact.

MAN 6317 Critical Thinking in Human Resource Management (GM) (3). This course focuses on developing critical thinking skills to solve complex and multidimensional human resource management problems. The course will emphasize the analysis and discussion of cases.

MAN 6321 Personnel Selection and Placement (GM) (3). Individual differences and their measurement in personnel selection and job placement. Job design and redesign.

MAN 6327 High Involvement Human Resource Management (GM) (3). This course focuses on human resource practices that motivate and empower employees to excel on their job by fostering their participation and involvement in organizational decision-making.

MAN 6328C Applied Methods in Human Resource Management (GM) (3). This course focuses on the application of research design and measurement theory to solve human resource problems. The emphasis is on applied methodology rather than on statistical issues.

MAN 6331 Compensation Administration (GM) (3). An in-depth analysis of wages and salary administration, including such topics as job evaluation; wage incentive systems; and work sampling.

MAN 6336 Reward Systems Management (GM) (3). This course covers all aspects of compensation and reward systems such as the strategic alignment of compensation and other HR systems, job evaluation, merit – and skill-based pay, cost-effective benefit programs, and flexible pay.

MAN 6347 Performance and Talent Management (GM) (3). This course focuses on the development and implementation of effective performance management systems. Career development and electronic performance monitoring will be covered.

MAN 6351 Personnel Training and Development (GM) (3). Determining training needs. Training methods. The training staff. Supervisor development. Equal Employment Opportunity management.

MAN 6356 Professional Development Seminar I (BA) (1). Course includes orientation to graduate education, focusing on international business, career development, team building and how to analyze business cases.

MAN 6357 Professional Development Seminar II (BA) (1). Course includes continued orientation to graduate education, focusing on analysis of current events impacting various business areas relating course content in IB, finance, IT and management.

MAN 6358 Professional Development Seminar III (BA) (1). Course includes continued orientation to graduate education, focusing on entrepreneurial activity in business.

MAN 6359 Human Resource Knowledge Management (GM) (3). This course focuses on the development of the organization's human capital. The identification of learning needs, current and future performance problems, and leadership development will be discussed.

MAN 6365 Staffing Organizations (GM) (3). This course focuses on the identification, recruitment, selection and promotion of successful employees.

MAN 6367 Career and Succession Planning (GM) (3). This course is based on an integrated "system thinking" model used to create and manage employee succession planning and leadership development processes. It also focuses on management of employee well-being including safety, security, mental and attitudinal and health-related outcomes.

MAN 6368 Human Resource Deployment (GM) (3). This course focuses on the staffing, organization, training, and management of rapid response operations.

MAN 6385 Human Resource Strategy and Planning (GM) (3). This course discusses the notion of strategic planning in the context of human resource management. Alignment of culture and strategy. HR inventories and forecasting.

MAN 6403 Employment Law and Human Resource Management (GM) (3). This course focuses on the legal and regulatory factors surrounding human resources management. The emphasis will be on creating awareness of legal constraints when making HR business decisions.

MAN 6405 Labor Relations (GM) (3). Examines the collective bargaining system in the United States from the viewpoint of the practitioner. Various aspects of the environment, structure, processes, issues and impact of collective bargaining are considered. Special attention is given to the negotiation and administration of agreements.

MAN 6411 Collective Bargaining Topics (GM) (3). An advanced course in labor relations for students with some background who desire more depth than that provided in introductory courses. Topics of contemporary interest, such as public sector collective negotiations, are treated at length.

MAN 6416 Corporate Negotiations (IB) (3). An examination and analysis of corporate negotiation strategies in such areas as collective bargaining, mergers, joint ventures, and with government regulation agencies. The legal environment affecting the negotiated process will be closely scrutinized, as well as internal and external political processes. Prerequisites: ACG 6026, MAN 6245, FIN 6406, MAR 6805.

MAN 6446 Negotiations (GM) (3). Negotiations are the processes of creating agreements between two or more parties. This course will introduce students to the art of negotiations in business transactions. The class will include a wide variety of negotiation cases.

MAN 6525 Managing for Total Quality (BA) (3). Addresses underlying management assumptions, methods, tools, culture and philosophy of total quality management - TQM.

MAN 6601 Global Management Skills (GM) (3). This course examines the role culture plays in organizations and in conducting business across borders. Various cross cultural frameworks will be compared.

MAN 6606 Fundamentals of International Business (IB) (3). This course examines the basic concept and theories of international business, particularly those that make doing business across borders a unique business activity.

MAN 6608 International Business (IB) (3). This course examines the environmental variables affecting international operations, trade and investment theories, international institutions, and regional economic groups. It also focuses on international finance, international accounting, international marketing, and international management problems and issues.

MAN 6616 Managing Security Risks in Emerging Markets (IB) (3). This course will consider the nature of the contemporary risks facing multinational firms in emerging markets and what strategies that they can implement to minimize vulnerabilities and manage risks.

MAN 6617 Managing Global Production and Technology (IS) (3). An exploration of the management of technology and its relationship to the dynamics of globalization of production in both manufacturing and service industries. Prerequisite: MAN 6608.

MAN 6626 International Human Resource Management (GM) (3). Decisions about how to recruit, train, compensate, and manage global employees; cross-cultural differences in values; managing the international assignee.

MAN 6635 Global Strategy and Business Models (IB) (3). This course introduces students to concepts, and tools that will enable them to appreciate, and learn to address the challenges associated with managing a multinational corporation.

MAN 6636 Global Megatrends, Geopolitics, & Political Economy (BA) (3). This course provides the foundation to understand major trends in the global economy and the role of global, regional, and national contemporary political and economic order in international business.

MAN 6657 Contextual Intelligence in International Business (IB) (3). This course will help students develop contextual intelligence specifically for international business issues and obtain tools required to become an effective manager in the global business landscape.

MAN 6675 Special Topics in International Business (IB) (3). For groups of students who wish to study intensively a particular topic, or a limited number of

topics, in international business, not offered elsewhere in the curriculum. Prerequisites: Approval of the faculty advisor, Department Chairperson, and Dean.

MAN 6676 Global e-Business Environment (BA) (3). Systematic review of the economic, financial, socio-political and infrastructure environments in which global e-business activity takes place. Introduces methods to evaluate the opportunities and constraints for e-business in a country. Prerequisite: Intro to e-business.

MAN 6677 Emerging Markets (IB) (3). The course focuses on what managers of international firms large and small need to know to succeed in emerging markets, including the factors and forces that shape the competitive environment.

MAN 6678 Global Start-ups (IB) (3). This course will analyze strategies for starting and growing a new global venture. The emphasis is on rapid expansion and matching new business models to various factors.

MAN 6679 Master's Project in International Business (IB) (3). An interdisciplinary research project on an international business problem, which may include field work (including internship), library research, computer modeling, or the use of an approved research methodology. Prerequisites: Assignment of faculty advisor and permission of Department Chairperson.

MAN 6686 Master's Seminar in International Business (IB) (1-3). An examination of recent research findings in International Business. Emphasis is placed on readings; active discussion; and small, short-term action and research projects. Prerequisites: Consent of faculty sponsor, department Chairperson, and Dean.

MAN 6695 Independent Study in Business (GM) (3). Individual conferences; supervised readings; reports on personal investigations. Prerequisites: Assignment of faculty tutor and written permission of Department Chairperson, and Dean.

MAN 6703 Colloquium in Managing Organizational Ethics (GM) (1). Management issues, responsibilities, and techniques associated with public and private expectations for ethical performance of large-scale organizations.

MAN 6706 Crisis Management (GM) (3). Response to crises such as product recalls, product tampering, industrial accidents, and violence in the workplace.

MAN 6726 Strategic Management (IB) (3). The use of cases, guest lectures, and gaming to integrate the analysis and measurement tools, the functional areas and public policy issues. The objective is to develop skill in broad areas of rational decision-making in an administrative context of uncertainty. Should be taken in the last semester of master's program.

MAN 6746 Global Environmental Management (IB) (3). An exploration of the national, regional, and global forces emerging and influencing the management of the business firm's impact on the physical environment. A review existing and developing environmental management theories and control systems for business.

MAN 6805 Entrepreneurship (IB) (3). A discussion of the general theories, principles, concepts and practices of entrepreneurship. Heavy emphasis is placed on lecture, readings, case studies and group projects.

MAN 6830 Organization Information Systems (IS) (3). Introduction to information systems and their role in organizations from a user's viewpoint. Survey and application of the basic concepts necessary for understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability.

MAN 6830L Organization Information Systems Laboratory (IS) (1). Laboratory applications for MAN 6830.

MAN 6891 Leadership Development Seminar I (BA) (1). This leadership seminar focuses on increasing the self-awareness of the student as leader. Students will complete a 360 assessment and develop a personal leadership action plan.

MAN 6892 Leadership Development Seminar II (BA) (1). This leadership seminar focuses on helping a leader make better decisions and build high-performing teams.

MAN 6893 Leadership Development Seminar III (BA) (1). Leadership Development Seminar III focuses on the developing interpersonal competencies and examining how to give timely, specific feedback, and helpful coaching.

MAN 6898 Leadership Development Seminar IV (BA) (1). This leadership seminar focuses on developing leaders by helping them to think strategically, create and convey a vision and direction, learn how to deal with ambiguity and in times of crisis.

MAN 6907 Community Service Learning (GM) (3). The integration of classroom theory with experimental learning in community service participation, development, and management of community service projects, especially those associated with the business community.

MAN 6908 Independent Study in Business Environment (IB) (3). Independent project in the political, economic, social, cultural, ethical, or governmental relations environment of business. Directed study with a business environment faculty member. Prerequisites: MAN 6715, MAN 6606 and permission of the instructor.

MAN 6930 Master's Seminar in Management (GM) (1-3). Examination of recent research in selected areas. Emphasis on readings, case studies and active discussion on topics that may include IB, entrepreneurship, leadership, and management. Prerequisites: Consent of faculty sponsor, Department Chairperson, and Dean.

MAN 6943 Graduate International Business Internship (IB) (3-6). Course work involving the placement of graduate students in an International Business-focused organization to conduct practical, supervised assignments to supplement theoretical classroom knowledge. Prerequisite: Graduate student, Department Chair approval

MAN 6946 Human Resource Management Internship (GM) (1-3). Provides students with practical experience to supplement theoretical of knowledge acquired in the classroom in the Human Resource field. Permission from the Faculty Director is required.

MAN 6974 Master's Project in Management (BA) (1-6). Each student is required to develop and conduct an individual research project or thesis on a topic of interest.

The topic will be chosen in consultation with a faculty member in the College.

MAN 7146 Leadership I (GM) (3). Course identifies leadership theories and research bearing on modern management practice. Behavioral, situational and transformational theories of leadership are emphasized, compared and evaluated.

MAN 7147 Leadership II (GM) (3). Draws on research and case studies for understanding of adaptive leadership in turbulent, uncertain environments. Emphasis on effective management of innovation, entrepreneurial activity and new ventures.

MAN 7155 Fundamentals of Behavioral Research (GM) (3). Analytical tools to conduct systematic research. Methods of data collection in lab, survey and field research. Emphasis on principles of measurement and statistics to interpret/report behavioral data.

MAN 7206 Organizational Analysis (GM) (3). Develops skills in organizational problem-solving through applications of theory and research to actual problems. Emphasis on needs analysis, process consultation, teambuilding and action research.

MAN 7207 Theories of Organization (GM) (3). Organization functioning from a macro perspective; emphasis on evolution, structure, design and processes of complex systems. Study of communication/information networks, inter-group processes and control strategies.

MAN 7275 Organizational Behavior Management (GM) (3). An introduction to the study of human behavior in organizations. Emphasis is given to management of individual and group processes including conflict attitudes, decision making, motivation and stress.

MAN 7305 Human Resource Management (GM) (3). Personnel management topics including personnel selection, performance appraisal, training design, employee development, and compensation administration. Legal and practical issues are emphasized.

MAN 7412 Labor-Management Topics (GM) (3). Presents various aspects of the labor-management relationship to provide a contemporary perspective. Emphasis on structure, processes, strategies and legal issues in collective negotiation and industrial relations.

MAN 7609 Comparative Management (IB) (3). Course focus is cross-cultural management, i.e., how cultural values influence managerial behavior. The problems of cross-cultural communications, leadership, motivation, and decision making are examined. Prerequisites: Admission to Doctoral program and completion of Doctoral core.

MAN 7616 Multinational Firm Global Strategy (IB) (3). Overview of the strategic management and international business concepts that frame strategic activity in MNCs. Competitive business strategies in global and multidomestic industries. Prerequisite: Completion of business Ph.D. core.

MAN 7620 International Business Operations I (IB) (3). Examination of the functional management, operations and concerns of international businesses. Emphasizes analysis of problems in managing joint ventures, licensing, barter, and technology transfer. Prerequisites: Admission to Doctoral program and completion of doctoral core.

MAN 7621 International Business Operations II (IB) (3). Focus on political, economic, and national security issues which influence IB operations or strategies. Examines techniques for political and economic risk, assessment and reactions to such influences. Prerequisites: Admission to Doctoral program and completion of doctoral core.

MAN 7640 International Business Research Methods (IB) (3). Overview of IB academic research, emphasizing topics, literature, methods, information sources, applications, problems, and journal characteristics. Prerequisites: Admission to business Doctoral program and completion of doctoral core.

MAN 7718 Analysis of Corporate Policy Methods (IB) (3). Links functional areas of management to provide integrated view of organization and public policy. Emphasis on measurement, analysis and conceptualization of organization as a totality of operations.

MAN 7910 Advanced Management Research (IB) (3). Covers applications of analytical methods in contemporary management research. Emphasis is given to complex research design strategies including multivariate techniques and multidimensional scaling.

MAN 7916 Doctoral Research Project in Business (GM) (1-15). Intensive research project conducted during the summer following the student's first and second years of coursework. Each student develops his/her own research project under the supervision of a faculty member. Prerequisite: Graduate standing. (on demand)

MAN 7936 Doctoral Seminar in Business Administration (GM) (1). College colloquium series featuring presenters from various academic disciplines and businesses. (on demand)

MAN 7980 Ph.D. Dissertation (GM) (1-12). Original research that is supervised by a faculty committee and defended openly before the university committee. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

MAN 7981 Dissertation Preparation (GM) (1-10). Preparatory background research and study to begin development of dissertation proposal. Students should be able to complete proposal by the end of the course. Prerequisite: Completion of TIER 1 courses. (on demand)

MAR 5416 Marketing and Sales Strategies (ME) (3). This course discusses the nature and scope of marketing, and explores problems facing firms in developing existing markets and opening new ones. Includes sales skills and strategies and controlling sales operations. Prerequisites: Bachelor degree or equivalent.

MAR 6075 Current Issues in Marketing I (ME) (3). Intensive study of various topic areas in marketing. Course emphasizes student reading and research, with oral and written reports. Students electing to take this seminar may take no more than 3 credit hours of independent study in marketing. Prerequisite: MAR 6805.

MAR 6158 International Marketing (ME) (3). This course discusses the nature and scope of international marketing, and explores problems facing multinational firms and other international marketing organizations, together with strategies for foreign market penetration. Prerequisite: MAR 6805.

MAR 6205 Omni-Channel Marketing and Distribution Systems (ME) (3). Distinction between logistics and channel management focusing on the relationship of distribution in various strategic marketing variables and the role of channel strategy.

MAR 6336 Integrated Marketing Communication (ME) (3). A broad introduction to the field of integrated marketing communications and how it fits into the marketing plan. Discussion of objective setting, budgeting, and media planning, as well as the strategic planning and evaluation of advertising media, sales promotion, public relations, direct marketing, personal selling and marketing communications on the internet. Prerequisite: MAR 6805.

MAR 6406 Sales Management (ME) (3). Analysis of personal selling's roles in marketing strategy using detailed case studies on field sales management, working with channel organization, and planning and controlling sales operations. Prerequisite: MAR 6805.

MAR 6417 Sales Tactics and Strategies (ME) (3). New concepts in selling strategies and techniques, including internationalization and ethical issues in sales. These skills and processes will then be applied to sales management and global selling.

MAR 6446 Negotiations (ME) (3). An essential skill for businesspeople, negotiation combines the art and science of creating effective agreements across situations. Includes hands-on simulated role play negotiation exercises.

MAR 6506 Buyer Psychology and Behavior (ME) (3). Psychological and behavioral examination of buyer decision process with an emphasis on the use of marketing analysis. Prerequisite: MAR 6805.

MAR 6508 Consumer Analysis in Emerging Markets (ME) (3). The course will be providing you with a conceptual and analytical toolkit to explore and investigate consumers in emerging world economies.

MAR 6646 Marketing Research (ME) (3). The role of research in providing information for marketing decision-making, including an examination of the research process and the tools available to the researcher. Prerequisites: MAR 6805 or permission of the instructor.

MAR 6675 Marketing Analytics (ME) (3). A practical approach to the use of database information to solve marketing problems. Emphasis is on obtaining, managing and using information about current and potential customers. Topics include data acquisition, data mining, list segmentation and customer modeling, and direct marketing, relationship marketing and customer lifetime value applications.

MAR 6722 E-Marketing (ME) (3). Examines how e-business can transform the traditional marketing mix and how fundamental principles of marketing can be applied to develop e-business marketing plans. Prerequisite: MAN 6085 (Introduction to E-Business).

MAR 6735 Digital Marketing Strategies (ME) (3). Using critical thinking and strategic decision making to combine online technologies such as e-marketing, social media, mobile, SEO, and metrics to enhance brand value and drive marketing exchanges. Prerequisite: A grade of "C" or higher in MAR 6880.

MAR 6805 Marketing Management in the Global Environment (ME) (3). Analysis and application of theory and problem solving for marketing management in the global environment. Emphasis will be on the role of marketing in the organization; planning the marketing effort; management of the marketing organization; control of marketing operations; and evaluation of the marketing contribution.

MAR 6816 Corporate Simulation (ME) (3). Course emphasis is on application and integration of concepts and tools, through participation in the marketing management of a firm in competition with other firms. The course's focal point is a computerized marketing management simulation. Prerequisites: ACG 6175, FIN 6406.

MAR 6819 Marketing Strategy (ME) (3). A study of strategic marketing planning through case analysis and selected readings. Emphasis is on planning and problem solving processes, particularly directing, planning, organizing, coordinating, and controlling as applied to a contemporary market-oriented organization. Prerequisites: MAR 6805 or equivalent.

MAR 6826 Customer Relationship Management (ME) (3). The management of customer relationships has become the centerpiece of business strategy; course covers CRM and emphasizes the financial and technical aspects of managing customer relationships.

MAR 6838 Brand Management (ME) (3). The focus of this course is to provide a sound understanding of the function, issues and challenges of the brand or product manager. The scope of the course embraces U.S. and international situations and emphasis will be placed on analysis, strategy development and practical decision making. The course will draw on the students' prior exposure to marketing management, research advertising and promotion and will provide insights and practice in application of these skills in the context of the product manager's role in the enterprise.

MAR 6880 Social Media Marketing (ME) (3). Intensive study of social media marketing, including best practices, challenges, metrics, and its role in market segmentation, target marketing, branding market expansion, and marketing strategies.

MAR 6915 Independent Study in Marketing (ME) (1-6). Individual conferences; supervised reading; reports on personal investigations. Consent of faculty tutor, Department Chairperson and Dean required.

MAR 6936 Special Topics in Marketing (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

MAR 6944 Marketing Internship (ME) (1-3). Graduate level course consisting of full-time supervised work in a selected organization to apply knowledge learned in the classroom. Prerequisite: A grade of "C" or higher in MAR 6805 or taken concurrently.

MAR 7205 Seminar in Channels of Distribution (ME) (3). Covers readings from the marketing, economics, logistics, organizational behavior, social psychology, and sociology literature's in developing a research perspective on channels of distribution.

MAR 7246 Seminar in International Marketing (ME) (3). Examines major topics and theories in the international marketing literature. Analyzes various perspectives on business activities and strategies in global markets.

MAR 7399 Seminar in Advertising and Persuasion (ME) (3). Covers the major topics and theoretical perspectives within the research literature addressing persuasive communications.

MAR 7507 Seminar in Consumer Behavior (ME) (3). Covers the major topics and theoretical perspectives in consumer behavior research, with emphasis on consumer decision making.

MAR 7622 Marketing Research Methodology I (ME) (3). Philosophy, concepts, methods of marketing research design. Experimental methods, sampling procedures, measurement techniques, other methodological considerations. Prerequisites: Successful completion of first year research methods requirements in a College of Business Ph.D. Program or permission of the instructor.

MAR 7623 Seminar in Marketing Environment (ME) (3). Examines the role of marketing professionals in responding to social, economic, political, technological and ecological changes in the business environment. Addresses issues of marketing ethics, social accountability, and the design of responsible marketing strategies.

MAR 7665 Seminar in Marketing Models (ME) (3). Examines the process of model building and the assumptions implicit in various modeling decisions. Emphasis in on learning to interpret, classify and critically evaluate models of marketing phenomena. Prerequisites: Calculus, Probability Theory, Statistics, and Matrix Algebra.

MAR 7786 Seminar in Marketing Theory (ME) (3). Intensive analysis of the nature and role of hypotheses, generalizations, and empirical regularities. Critical examination of theories of marketing and interaction of marketing theory and practice.

MAR 7815 Seminar in Foundations of Marketing Thought (ME) (3). Foundations of marketing, interdisciplinary relationships; reviews major research areas: the marketing mix, consumer choice models, segmentation, stochastic, and analytical models.

MAR 7817 Seminar in Marketing Management (ME) (3). Covers programs of research related to the management of marketing organizations and their role in improving organizational performance. Current and potential research topics will be considered from the perspective of leading scholars and marketing executives.

MAR 7849 Seminar in Services Marketing (ME) (3). Analyzes the nexus between services and marketing management. Identifies and appraises alternative corporate strategies within industries such as banking and finance, insurance, hospitality, entertainment and leisure, health care, and education.

MAR 7875 Seminar in Consumer Welfare and Well-Being (3). Doctoral seminar focuses on consumer behavior theories and research concerning consumer welfare and well-being. Prerequisite: MAR 7505.

MAR 7979 Doctoral Research in Marketing (ME) (1-6). Research while enrolled for a doctoral degree under the direction of faculty members. Prerequisite: Permission of Department.

MAR 7980 Ph.D. Dissertation (ME) (1-12). Original research that is supervised by a faculty committee and defended openly before the university committee. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

MAR 7981 Dissertation Preparation (ME) (1-12). Preparatory background research and study to begin development of dissertation proposal. Students should be able to complete proposal by end of the course. Prerequisite: Completion of TIER 1 courses. (on demand)

QMB 6357 Business Statistical Analysis (IS) (3). Review of quantitative methods and techniques required for business analysis and decision making. Includes decision models, mathematical programming, statistics and forecasting. Excel required.

QMB 6603 Analyzing and Leveraging Transactional Data (IS) (3). Emerging methods and technologies in business analytics for 1) decision making, 2) process automation, 3) data monetization, 4) organizational transformation and 5) societal impact. Prerequisite: QMB 6357

QMB 6616 Business Process & Operational Analysis (IS) (3). Review of critical business analytical approaches, including linear programming, project scheduling, waiting line theory, and time series analysis, among others.

QMB 6805 Deterministic Models for Management Analysis (IS) (3). Applications of deterministic models such as linear and nonlinear programming, network analysis (PERT), dynamic programming, and branch and bound algorithms) to managerial problems of allocation, planning, scheduling, investment, and control.

QMB 6845 Simulation of Management Systems (IS) (3). Basic concepts of computer simulation of systems; application of these concepts to a variety of management problems. Industrial dynamics, urban dynamics, and large system simulation. Simulation in economic analysis, heuristic methods, and management games are covered. Prerequisites: MAN 6569 and a Computer Programming Language.

QMB 6855 Stochastic Models for Management Analysis (IS) (3). Applications of probabilistic models (such as queuing, inventory, and renewal) to their managerial problems.

QMB 6875 Stochastic Models for Project Management (IS) (3). Review of deterministic models and principles. Introduction to GERT, critical path methods, criticality index, and resource considerations in stochastic networks. Emphasis on operational decision-making, advanced topics, and individual projects. Students use the computer, and existing programs, to analyze hypothetical project networks, and learn to interpret the results in order to facilitate operational decisions. (F)

QMB 6905 Independent Study in Decision Sciences (IS) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of instructor, Department Chairperson and Dean required. P/F only.

QMB 6934 Seminar in Decision Sciences (IS) (1-3). An examination of recent research findings in selected areas of current concern. Emphasis is placed on readings; active discussion; and small, short-term action and research projects. Consent of instructor required.

QMB 6974 Project in Decision Sciences (IS) (1-6). Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic will be chosen in consultation with a faculty member in the College and approved by the Department Chairperson.

QMB 7910 Quantitative Research Methods in Business (IS) (3). This course introduces a structured approach to quantitative research methods such as surveys, experiments, data analysis, and multi-criteria analysis of judgments.

QMB 7935 Seminar in Decision Sciences (IS) (3). Critical review and analysis of recent and important research developments in the area of decision sciences. Prerequisites: ISM 7083 and ISM 7087.

REE 6045 Real Estate Markets, Institutions and Practices (RE) (3). This course is designed to introduce the student to the nature, principles, and advanced fundamental and analytical practices of the real estate industry.

REE 6147 Real Estate Market Analysis (RE) (3). An overview of basic theories, principles and techniques related to real estate market analysis with introduction to the standard cash flow software (ARGUS) from industry and to relevant databases.

REE 6209 Real Estate Finance (RE) (3). Financial analysis and structuring of real estate projects; traditional and creative concepts and mechanisms for construction financing and permanent financing of residential and income-producing property. Prerequisites: REE 3040 or permission of the instructor.

REE 6227 Real Estate Financial Modeling and Data Analysis (RE) (3). This course exposes the students to practical real estate financial modeling and analysis of real estate related data. Methodologies such as regression analysis and Monte Carlo simulations are used.

REE 6305 Advanced Real Estate Investment Valuation (RE) (3). The course emphasizes measuring risk and rate of return under conditions of uncertainty in real estate investment decision-making. Simulation is used to face the problems of matching investment strategy to the physical property, leverage, income taxation, and organizational alternatives.

REE 6306C Corporate Real Estate Management (RE) (3). This course introduces students to the end-user perspective of non-real estate companies' use of real estate. Focus is on decision-making tools and strategies to optimize performance.

REE 6327 Global Real Estate Capital Markets (RE) (3). This course provides knowledge of global real estate capital markets including the theories, operations and valuation techniques used in global real estate debt and equity markets. Prerequisite: REE 6209 or FIN 6406.

REE 6435 Real Estate Law (RE) (3). Analysis of best practices in real estate law. The course provides a detailed look at the contracts, ownership, structures, and laws impacting domestic and international real estate transactions.

REE 6715 Real Estate Development (RE) (3). Operation of real estate markets related to development; land use and development decision-making; the development process; real estate feasibility studies, applied to specific real estate projects.

REE 6932 Special Topics in Real Estate (RE) (1-20). For groups of students desiring intensive studies of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty tutor and Department Chairperson required.

REE 6935 Seminar in International Real Estate (RE) (3). Current trends and issues affecting industrial real estate on an international level. Topics include: the multinational corporation and its location decisions; foreign taxation; international trade and exchange rates.

REE 6940 Real Estate Internship (1-3). Part-time supervised work in a selected real estate office or other organization in the area of real estate or finance. Prerequisite: At least 9 credit hours of finance or real estate with grades of "C" or higher, consent of instructor and department chairperson required

SCM 6016 Supply Chain Management (ME) (3). Examines how systems of organizations, personnel, information, analytics, and activities combine to move inventory, products, and services through channels in an efficient and effective manner.

SCM 6136 Purchasing and Inventory Management (ME) (3). A comprehensive view of supply management through the knowledge and application of purchasing, materials management, procurement, and strategic sourcing. Emphasis is on the strategic need to source.

SCM 6206 Logistics Systems and Analytics (ME) (3). Strategic roles, key strategic drivers, and analytics methodology concepts will be covered providing a solid understanding of the analytical tools necessary to solve complex supply chain problems.

SCM 6216 Logistics Strategy (ME) (3). Capstone course that emphasizes on practical approaches to train future supply chain management leaders on how to stimulate and apply strategic thinking to logistics decisions within an organization.

SCM 6721 Import/Export and International Logistics (ME) (3). International logistics for sustaining global operations. Areas include: role of shipping, air transportation, and their impact on world trade' international distribution channels, and the logistics mix.

SCM 6946 Supply Chain Management Internship/Practicum (3). Supervised experiential learning activities designed to provide students with work experience and opportunities in the field of logistics and supply chain management. Prerequisite/Corequisite: A grade of "C" or higher in SCM 6016 or taken concurrently.

TAX 5066 Tax Research and Reporting (AC) (3). A study of tax planning aspects of a variety of business and other transactions. Emphasis will be placed upon perceiving tax issues and conducting research to resolve

them. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5106 Corporate Taxation (AC) (3). Tax implication of corporate formations, distributions, redemptions, liquidations, divisions, reorganizations, collapsibles, attributes, consolidations, S-Corp, AET and PHCs. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5405 Taxation of Estate and Gift (AC) (3). The study of the federal estate tax and federal gift tax provisions. Prerequisite: Permission of Accounting Certificate program advisor.

TAX 5406 Taxation of Estates and Trusts (AC) (3). Study of income tax aspects of decedents, followed by income taxation of estates and trusts (subchapter J). Special emphasis on throw-back rules, grantor trusts, charitable remainder trusts, and foreign trusts. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5506 International Dimensions of Taxation (AC) (3). Tax provisions affecting foreign corporations and non-resident aliens, as well as those tax provisions affecting U.S. person's business and investment activities outside the U.S. Prerequisite: Permission of Accounting certificate program advisor.

TAX 5725 Tax Planning for Managers (AC) (3). An exploration of the concepts of federal income taxation and tax planning, from the point of view of the manager. Prerequisites: ACG 6308 and permission of accounting certificate program advisor.

TAX 5875 Seminar in Taxation (AC) (3). An in-depth study of recent legislative, administrative, and judicial developments in taxation. Prerequisites: TAX 4001 or equivalent, and permission of Accounting certificate program advisor.

TAX 5904 Independent Study in Taxation (AC) (3). Individual conferences, supervised readings, reports on personal investigations. Prerequisites: Written Permission of the instructor, Accounting certificate program advisor, School director, and dean.

TAX 5936 Special Topics in Taxation (AC) (3). Intensive study for groups of students of a particular topic or topics not otherwise offered in the curriculum. Prerequisites: Written permission from the instructor, Accounting certificate program advisor, School director, and dean.

TAX 6005 Income Tax (AC) (3). A survey of federal income taxation, with emphasis on the taxation of individuals and corporations and the ethics of income tax accounting. Prerequisites: ACG 6115 and admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting. Not open to those with undergraduate accounting degrees.

TAX 6026 Value-Added Tax Strategies for Business Decisions (AC) (3). Development and implementation of a tax-based framework to assist business decision makers and their advisors in the design of sound strategies when considering alternative business transactions. Prerequisite: TAX 6065.

TAX 6065 Tax Research, Practice and Procedure (AC) (3). Study of the tax environment, the tax law and its interpretations, tax research tools, and of relevant practice and procedural mechanisms affecting taxation. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

TAX 6105 Taxation of Corporations I (AC) (3). The study of federal tax consequences of the formation and operation of corporations; distributions and redemption's; elections of Subchapter S status. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

TAX 6107 Federal Corporate Taxation (AC) (3). Study of the federal income taxation provisions affecting the formation, operations, liquidation, acquisition, and reorganization of Subchapter C corporations. Prerequisite: TAX 6065.

TAX 6115 Taxation of Corporations II (AC) (3). The study of federal tax consequences of the liquidation and reorganization of corporations; multiple corporations; advanced topics in corporate taxation. Prerequisite: TAX 6065.

TAX 6205 Partnership Taxation (AC) (3). The intensive study of the formation, operation, and dissolution of partnerships (general and limited). Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

TAX 6206 Taxation of Pass-Through Entities (AC) (3). Study of small business entitles, emphasis on partnerships, limited liability companies and S corporations; includes choice, formation and operation of above and distributions, sales and exchanges of ownership in interests and transfers by death. Prerequisite: TAX 6065.

TAX 6305 State and Local Taxation (AC) (3). The Constitutional, statutory, regulatory, and judicial principles affecting state and local taxation of business transactions, with emphasis on Florida taxation. Prerequisite: TAX 6065.

TAX 6405 Estate and Gift Taxation (AC) (3). The study of the federal estate tax and federal gift tax provisions. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

TAX 6415 Fiduciary Accounting and Taxation (AC) (3). The study of the income taxation of estates, trust, and the beneficiaries thereof, including the determination of distributable net income, and throwback rules. The grantor trust and income in respect of a decedent is emphasized. The use of trusts in tax and estate planning is also explored. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

TAX 6445 Estate Planning (AC) (3). An in-depth discussion of the use of estate tax planning tools, such as lifetime gifts, life insurance, the marital deduction, the use of trusts, future interests, annuities, powers of appointment, charitable transfers, and post-mortem planning. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

TAX 6446 Wealth Transfers (AC) (3). Study of gift estate, and generation-skipping transfer taxes and taxation of estates and trusts; use of estate planning tools: lifetime gifts, life insurance trusts, martial bequests, post-mortem estate planning. Prerequisite: TAX 6065.

TAX 6505 International Taxation I (AC) (3). Federal income tax provisions applicable to non-resident aliens and foreign corporations. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

TAX 6507 Principles of International Taxation (AC) (3). Study of the federal income tax provisions applicable to foreign persons' U.S. income and to U.S. persons' foreign income. Prerequisite: TAX 6065.

TAX 6515 International Taxation II (AC) (3). Federal income tax provisions applicable to U.S. persons, business, and investment activities outside the U.S. Prerequisite: TAX 6065.

TAX 6726 Tax Planning for Managers (AC) (3). An exploration of the concepts of federal income taxation and tax planning, from the point of view of the manager. Prerequisites: ACG 6026 or equivalent and permission of Accounting advisor. Not open to EMST or MACC students.

TAX 6805 Tax Policy (AC) (3). A study of the tax accounting concepts and the judicial doctrines inherent in the federal tax law, tax planning, and tax policy. Prerequisite: TAX 6065.

TAX 6835 Taxation of Deferred Compensation (AC) (3). The taxation of qualified and non-qualified pension and profit-sharing plans, stock options, annuities, lump-sum distributions, death benefits, rollovers, self-employment plans, employee stock ownership plans, etc. Prerequisite: TAX 6065.

TAX 6875 Current Developments in Taxation (AC) (3). The study of recent legislative, administrative and judicial developments in taxation. Prerequisite: TAX 6065.

TAX 6876 Transactions in Property (AC) (3). An in-depth investigation into tax problems relating to basis, capital gains and losses, and nonrecognition provisions for transactions in property with special emphasis on personal property transactions and securities investments. Prerequisite: TAX 6065.

TAX 6877 Seminar in Taxation (AC) (3). Intensive study of a particular topic or a limited number of topics. The topics included in this course will depend upon the availability of faculty with expertise in the following special classes of tax problems: advanced corporate taxation; taxation of not-for-profit institutions; interstate, state and local taxation; and others, as current developments demand. Prerequisite: TAX 6065.

TAX 6905 Independent Study in Taxation (AC) (1-3). Individual conferences, supervised readings; reports on personal investigations. Prerequisite: TAX 6065.

TAX 6935 Special Topics in Taxation (AC) (1-3). Intensive study for groups of students of a particular topic(s) not otherwise offered in the curriculum. Prerequisites: Admission to a graduate program in the School of Accounting or permission of the Director of the School of Accounting.

TAX 7067 Seminar: Special Topics in Taxation Research (AC) (3). Topics vary according to instructor and student interest in problems and issues on the frontier issues of taxation. Prerequisite: Permission of Doctoral advisor in Accounting.

TAX 7815 Seminar: Tax Policy: An Analysis of the Issues (AC) (3). An in-depth examination of the horizontal and vertical equity issues in taxation, the effects on income distribution, business decisions, foreign balance of payments, public finance issues, and economic policy. Emphasized are the areas of empirical research vis a vis legal research. Prerequisite: Permission of Doctoral advisor in Accounting.

TRA 5245 Transportation Logistics (ME) (3). Quantitative methods applied to solving problems in business logistics; mathematical and statistical models; optionalization theory and simulation. Problems selected from areas of physical distribution management, inventory control, mode selection, and facility locations.

TRA 5401 Transportation Operations and Carrier Management (ME) (3). Contemporary management techniques as applied to carriers; management-problems peculiar to transportation firms; economic analysis of marketing problems; capital formation; costs; pricing; labor relations; and government regulation.

TRA 6015 Graduate Survey of Transportation Management (ME) (3). Graduate survey of transportation, its elements, and their impact on society. History, economics, and regulatory principles in transportation. Current policies and problems for all the major transportation modes.

TRA 6905 Independent Study in Transportation (ME) (1-6). Individual conferences; supervised readings; reports on personal investigations. Consent of faculty tutor, Department Chairperson, and Dean required.

TRA 6936 Special Topics in Transportation (ME) (1-6). For groups of students desiring intensive study of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Department Chairperson required.

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Associate Dean, Chapman Graduate School of Business **William Hardin**
Associate Dean, International Programs **Sumit Kundu**
Associate Dean for Research and Doctoral Studies **George Marakas**
Director, Global Recruitment and Operations **Anna Pietraszek**
Director, Business Career Management **John Nykolaiszyn**

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Finance **Shahid Hamid**
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Weir-Latty, Sheryl, D.B.A. *(Colorado Technical University), Visiting Assistant Teaching Professor, Marketing and Logistics*
Wernick, David, Ph.D. *(Florida International University), Teaching Professor, International Business*
Weisman, Miriam, LLM. *(Chicago Kent College), Clinical Professor, Accounting*
Wheatley, Clark, Ph.D. *(Virginia Polytechnic Institute), CPA, Professor; Accounting*
Wishart, Nicole, Ph.D. *(Florida International University), Associate Teaching Professor, Information Systems and Business Analytics*
Wu, Anqui, Ph.D. *(University of Illinois at Urbana -Champaign), Assistant Professor, Information Systems and Business Analytics*
Wu, Zhonghua, Ph.D. *(University of Wisconsin – Madison), Professor, Tibor and Sheila Hollo School of Real Estate*
Xia, Weidong, Ph.D. *(University of Pittsburgh), Professor, Information Systems and Business Analytics*
Yap, Andrew, M.B.A. *(Florida International University), Visiting Assistant Teaching Professor, Marketing and Logistics*

Zhang, Liang (Alan), Ph.D. *(Georgia State University), Assistant Professor, Finance*

College of Communication, Architecture + The Arts

Dean **Brian D. Schriner**
Associate Dean, Cultural and Community Engagement **John A. Stuart**
Associate Dean, Faculty and Program Development **Marilys R. Nepomechie**
Assistant Dean of Students **Katie Rothfield**
Senior Director of Development **Oliver G. Ionita**
Director, CARTA Office of Strategic Communications **Heather Radi-Bermudez**
Chair, Architecture Department **Henry Rueda**
Interim Chair, Art and Art History Department **Brian D. Schriner**
Chair, Communication Department **Aileen Izquierdo**
Chair, Interior Architecture Department **Newton D'Souza**
Interim Chair, Journalism and Media Department **Susan Jacobson**
Chair, Landscape Architecture + Environmental and Urban Design Department **Roberto J. Rovira**
Director, Herbert and Nicole Wertheim School of Music and Performing Arts **Karen Veloz**
Chair, Theatre Department **Joel Murray**

The College of Communication, Architecture + The Arts (CARTA) is comprised of eight departments—Architecture, Art and Art History, Communication, Interior Architecture, Journalism and Media, Landscape Architecture + Environmental and Urban Design, Music, and Theatre. The dynamics among the different disciplines make the college unique with programs that focus on art, design, communication, and performance. The college occupies a unique position in South Florida where students can prepare for a career in architecture, communication or the arts within a major research university. Instruction in the college is enriched by a distinguished faculty of artists, designers, journalists, communicators and performers who add dimensions of applicable experience, current issues, and ongoing research to the traditional concepts related to the disciplines and professions within the college.

The college promotes exploration, discovery, and innovation among its different programs and is strongly committed to interdisciplinary education breaking new ground in art, design and performance. Its diverse programs emphasize urban engagement and are informed by current thinking and new technologies.

Developing connections with a wide range of programs and resources in the university, the college is dedicated to being engaged as a leader in art and design as well as in the performing arts in South Florida, neighboring communities, the nation, and internationally. Collaborations with Fairchild Tropical Botanic Garden, the Metropolitan Center, the Wolfsonian-FIU, the Bauhaus-Dessau, the Coconut Grove Playhouse, Florida Keys Land and Sea Trust at Crane Point, the Concert Association of Florida, and the Università degli Studi di Genova offer students the opportunity to expand their ingenuity with a variety of resources.

The fusion of essential disciplines with applied professions in the college provides both depth and liberty in learning. In the fields of architecture, landscape architecture, interior architecture, and art, the major emphases are on creative processes and studio work with a variety of supportive lectures and seminar programs. In art history, the emphasis is on scholarly study of the arts through time; lectures, seminars, and independent research are conducted on campus and in museums and libraries throughout the South Florida area. Music emphasizes skills and knowledge that are fundamental to the entire discipline: music theory, music history, performance, aural and keyboard training, orchestration, composition, conducting, and ensemble participation. Communication focuses on developing skills essential for effective leadership, critical decision making, and strategic influence through interpersonal and mediated communication. Our liberal arts and professional degrees prepare students for successful careers in organizational communication, advertising, and public relations in our diverse communities and our global digital ecosystem. Our graduate programs give students a global perspective in strategic communication to help them prepare for advancement in advertising, public relations, and integrated communications careers. Journalism and Media investigate, analyze, chronicle, and explain the complexities of the world around us. Theatre majors study the arts that contribute to theatre production—acting, costuming, directing, designing sets lighting and sound, writing plays, and theatre administration.

Admission to the College of Communication, Architecture + The Arts is selective and competitive. For information on the College of Communication, Architecture + The Arts, see **http://carta.fiu.edu**.

Students seeking to major in any of the college's departments must meet the requirements for admission to the university and the requirements for admission to the major by the respective department. Admission to the above referenced departments' majors is competitive and is not guaranteed. Criteria for selective admission to the departments' majors include indicators of ability, performance, creativity, and/or talent to complete required work within the desired major. Admission to each department's major will be offered based on space availability to those applicants judged by the respective Department Faculty Admissions Committee to have the greatest potential for successful completion of the program. Florida community college transfer students with Associate in Arts degrees are given equal consideration with FIU students.

Hours of Operation / Location / Contact Information

Monday - Friday, 8:30a.m. – 5 p.m.
Paul L. Cejas Architecture Building, PCA 272,
Miami, FL 33199
Phone: (305) 348-7500, Fax: (305) 348-6716

Student Services and Advising Center

Our advisors are here to assist you in the development of a meaningful educational plan that is compatible with your life goals. You can rely upon your academic advisors for information, assistance, and encouragement.

- Provide accurate and customized academic information.
- Educate students on how to plan effectively.
- Help students identify goals and develop education plans to reach them.
- Interpret and assure adherence to CARTA's academic policies and procedures.

- Consult with students experiencing academic difficulty and assist them in identifying reasons for problems and possible solutions.
- Help students understand degree requirements.
- Assist students in the selection and scheduling of courses.

Architecture	Student Services and Advising Center, PCA 272 archadvising@fiu.edu, (305) 348-7500
Art and Art History	Student Services and Advising Center, VH 232, 234 cartaadv@fiu.edu, (305) 348-1734
Communication	Student Services and Advising Center, PCA 274A and AC2, 320 scj@fiu.edu, (305) 919-5625 or (305) 348-1255
Interior Architecture	Student Services and Advising Center, PCA 272 archadvising@fiu.edu, (305) 348-7500
Journalism and Media	Student Services and Advising Center, AC2 230 scj@fiu.edu, (305) 919-5625
Landscape Architecture + Environmental and Urban Design	Student Services and Advising Center, PCA 272 archadvising@fiu.edu, (305) 348-7500
Music	Student Services and Advising Center, WPCA 145B cartaadv@fiu.edu, (305) 348-2442
Theatre	Student Services and Advising Center, WPCA 145B cartaadv@fiu.edu, (305) 348-2442

Graduate Programs

The college offers academic programs leading to graduate degrees in Architecture, Interior Architecture, Landscape Architecture, Art Education, Mass Communication, Music, Music Education, and Visual Arts.

Certificate Programs

The college offers academic programs leading to graduate certificates in History, Theory and Criticism of Architecture, Furniture Design, Landscape Architecture, Cruise Ship and Super Yacht Design, Science Communication, Spanish-language Journalism: Investigative Reporting, and Museum Studies.

School of Communication and Journalism

Dean **Brian D. Schriner**
Associate Dean, Cultural and Community Engagement **John A. Stuart**
Associate Dean, Faculty and Program Development **Marilys R. Nepomechie**
Assistant Dean of Students **Katie Rothfield**
Senior Director of Development **Oliver G. Ionita**
Director, CARTA Office of Strategic Communications **Heather Radi-Bermudez**
Chair, Communication Department **Aileen Izquierdo**
Interim Chair, Journalism and Media Department **Susan Jacobson**

The School of Communication and Journalism offers professional education leading to the M.S. in Mass Communication.

There are four programs that lead to the M.S. Degree in Mass Communication:

- Global Strategic Communications on-campus program
- Global Strategic Communications online program
- Global Strategic Communications/Miami Ad School program
- Spanish language Journalism program

The Global Strategic Communication online program features specializations in global strategic communication management, conflict resolution and consensus building, and digital media. The orientation of the graduate program is primarily professional, not theoretical. The program is designed to enhance graduates' abilities to work in the mass communication professions.

Graduate Programs

The school offers academic programs leading to graduate degrees in Business Journalism, Global Strategic Communications, Mass Communication, and Spanish language Journalism.

Certificate Programs

The school offers academic programs leading to graduate certificates in Science Communication, and Spanish-language Journalism: Investigative Reporting.

School of Music

Karen Veloz, *Director and Associate Teaching Professor*
Brenton Alston, *Assistant Teaching Professor*
Jacob Berglin, *Assistant Professor*
Barry Bernhardt, *Associate Teaching Professor and Director of Marching Band*
Federico Bonacossa, *Assistant Teaching Professor*
Enrique Caboverde, *Music Librarian*
Jason Calloway, *Associate Teaching Professor*
Gary Campbell, *Professor*
Robert Davidovici, *Professor*
David Dolata, *Professor*
Robert Dundas, *Associate Professor*
Michael Eckroth, *Assistant Professor*
Joel Galand, *Associate Professor*
Orlando J. García, *Distinguished University Professor*
Kemal Gekic, *Professor*
James Hacker, *Teaching Professor*
Fredrick Kaufman, *Professor Emeritus*
Vindhya Khare, *Associate Teaching Professor*
Michael Klotz, *Teaching Professor*
Marcia Littley, *Associate Teaching Professor*
José R. López, *Associate Professor*
Javier José Mendoza, *Assistant Professor*
Erynn Millard, *Assistant Professor*
Avi Nagin, *Visiting Assistant Teaching Professor*
Jamie Ousley, *Associate Professor*
Mesut Özgen, *Associate Teaching Professor*
Sandra Sanchez-Adorno, *Assistant Professor*
Jacob Sudol, *Associate Professor*
Michael Vitenson, *Associate Teaching Professor*

Master of Music

The School of Music offers a Master of Music degree with specialization in the following areas: music composition, music technology, jazz, performing arts production, applied (winds/percussion, strings, voice, piano, piano accompanying, organ), and conducting (choral, orchestral, wind). In addition, the department offers the Master of Science in Music Education. For more information please contact the School of Music.

Admissions Requirements

All students entering the graduate programs in the School of Music must possess an undergraduate Bachelor of Music degree from an accredited institution or the equivalent with a 3.0 GPA in the last 60 credits of study. The only exception to this requirement is found in the Music Management and Production, Music Education, and Music Technology areas, where students with undergraduate degrees in other related areas may be accepted, as long as they can demonstrate a sufficient musical background. In addition to the on-line application and documentation required by the University Graduate School, the School of Music graduate programs require an audition or interview and additional supporting materials. Please visit the Graduate Admissions website for School of Music admission requirements by degree and track.

Applicants who feel the earned GPA is not indicative of their ability to be successful in a graduate degree program may also submit scores on the Graduate Record Examination, which will be taken into consideration by the admission committee in its evaluation of the application.

- Wind/Percussion Performance: audition on instrument (and interview when feasible) – recordings acceptable
- String/Guitar Performance: audition on instrument (and interview when feasible) – recordings acceptable
- Keyboard/Organ Performance: audition on instrument (and interview when feasible) – recordings acceptable
- Vocal Performance: audition on voice (and interview when feasible) – recordings acceptable
- Conducting (choral, wind, orchestral): conducting audition (and interview when feasible) – video acceptable
- Jazz: audition on instrument (and interview when feasible) – recordings acceptable
- Composition: review of portfolio of scores (and interview when feasible)
- Music Management and Production: interview required
- Music Technology: portfolio of music or software, interview, CV, personal statement

General Requirements

Music Theory (Analytical Techniques course required in all areas except jazz, music technology, music education, and performing arts production)[1]	3
Music History/Literature[1] (see each area for specific courses)	3
Ensembles/applied/conducting (see each area for specific courses)	2

The above eight credits are included in the 36 credits required for most areas of concentration.
[1]A placement exam is required before students are allowed into these courses. Remedial work may be required before these courses are taken. A grade of "B" or better must be earned in order for a course to count towards the MM in Music or the MS in Music Education.

Areas of Concentration

Composition (36 credit hours)

MUC 6251 Graduate Music Composition (3 semesters – 3 credits each)		9
Composers Forum (4 semesters - 1 credit each)		4
Electronic Music 2 semesters (2 credits per semester – beyond MIDI Tech class)		4
MUT 5629	Analytical Techniques	3
Graduate Electives to be selected in consultation with the composition area director		5
MUH 6937	Special Topics in Music History	3
MUS 5711	Music Bibliography	2
Thesis/Recital (includes private lessons and 45 minute recital of student's compositions during last semester)		6

Performance

Applied Piano (36 credit hours)

MVK 5451 Applied Piano (3 semesters - 3 credits each)		9
MUN 5515 Accompanying (2 semesters - 1 credit each)		2
Chamber Music (2 semesters - 1 credit each)		2
MUS 5906 Master's Recital (includes private lessons and recital during last semester)		6
MUT 5629	Analytical Techniques	3
MUL 5405/5406	Keyboard Literature I and II (2 semesters - 3 credits each)	6

Major Ensemble (2 semesters - 1 credit each)		2
MVK 5651	Piano Pedagogy	2
MUS 5711	Bibliography	2
MUH 6937	Special Topics in Music History	2

Piano Accompanying (36 credit hours)

Applied Piano (3 semesters - 3 credits each)		9
Instrumental Accompanying		2
Vocal Accompanying		2
Chamber Music (2 semesters - 1 credit each)		2
MUS 5906 Master's Recital (includes private lessons and recital during last semester)		6
Analytical Techniques		3
2 music literature courses to be chosen in consultation with advisor		6
Major Ensemble (2 semesters - 1 credit each)		2
MUS 5711	Music Bibliography	2
MUH 6937	Special Topics in Music History	2

Applied Organ (36 credit hours)

Applied Organ (3 semesters – 3 credits each)		9
Accompanying (2 semesters – 1 credit each)		2
Organ Pedagogy		2
Analytical Techniques		3
Organ Literature I and II		6
Choral Conducting or Instrumental Conducting		2
Major Ensemble (2 semesters – 1 credit each)		2
MUS 5711	Bibliography	2
MUH 6937	Special Topics in Music History	2
MUS 5906 Master's Recital (includes private Lessons and recital during last semester)		6

Applied Woodwinds, Brass, Percussion (36 credit hours)

Applied Instruction (3 semesters - 3 credits each)		9
Elective Ensembles (from orchestra/ wind/brass/percussion ensembles) (6 ensembles - 1 credit each)		6
MUN 5465 Chamber Music (2 semesters - 1 credit each)		2
MUS 5906 Master's Recital (includes private lessons and recital during last semester)		6
Analytical Techniques		3
MUL 5505 or MUL 5456 Symphonic Literature or Wind Literature		3
Graduate Music Electives		2
MUH 6937	Special Topics in Music History	3
MUS 5711	Music Bibliography	2

Applied Strings (36 credit hours)

Applied Strings (3 semesters - 3 credits each)		9
MUN 5215 Orchestra or MUN 5485 Guitar Ensemble (4 semesters - 1 credit each)		4
MUN 5465 Chamber Music Elective (4 semesters - 1 credit each)		4
MUS 5906 Master's Recital (includes private lessons and recital during last semester)		6
MUT 5629	Analytical Techniques	3
MUL 5505 Symphonic Literature or MUL 5435 Guitar Literature		3
MUH 6937	Special Topics in Music History	3
MUS 5711	Music Bibliography	2
Graduate Music Electives		2

Applied Voice (36 credit hours)

MVV 5451 Applied Voice (3 semesters - 3 credits each)		9
MUO 5505 Opera Workshop (4 semesters, 1 cr. each)		4
Elective Ensembles (3 semesters - 1 cr. each) (to be chosen in consultation with Director of Vocal Studies)		3
MVV 5651	Graduate Vocal Pedagogy I	2
MUL 5671	Opera Literature	3
MUL 5609	Survey of Art Song Literature	3
MUT 5629	Analytical Techniques	3
MUH 6937	Special Topics in Music History	1
MUS 5711	Music Bibliography	2
MUS 5906 Master's Recital (includes private lessons and recital during last semester)		6

Musical Theatre (36 credit hours)

MUH 5656C	History of Musical Theatre	3
MVV 5451	Applied Voice	9
MUN 5648L	Musical Theatre Ensemble	2
MVV 5651	Graduate Vocal Pedagogy	2
MUO 5007L	Musical Theatre Workshop- Voice	2
MUS 5711	Music Bibliography	2
MUT 5629	Analytical Techniques	3
MUH 6937	Special Topics Music History	1-3
MUS 5906	Master's Recital	6
Music Electives		4-6

Conducting

Choral Conducting (36 credit hours)

MUG 5205 Graduate Choral Conducting (3 semesters – 3 credits each)		9
Choir Ensemble Electives (4 semesters - 1 credit each)		4
MUS 5906 Master's Recital (includes private conducting lessons and recital during last semester)		6
MUT 5629	Analytical Techniques	3
MUL 5645	Choral Literature	3
MUH 6937	Special Topics in Music History	3
MUS 5711	Music Bibliography	2
MVV 5651	Graduate Vocal Pedagogy I	2
Secondary Applied Lessons		2
Graduate Music Electives[1]		2

Instrumental (Wind) Conducting (36 credit hours)

MUG 5307 Graduate Applied Instrumental Conducting (3 semesters – 3 credits each)		9
Ensemble Electives (4 semesters - 1 credit each)		4
MUS 5906 Master's Recital (includes private lessons and recital during last semester)		6
MUT 5629	Analytical Techniques	3
MUL 5456	Wind Instrument Literature	3
MUH 6937	Special Topics in Music History	3
MUS 5711	Music Bibliography	2
Graduate Music Electives		6

Orchestral Conducting (36 semester hours)

MUG 6309 Graduate Applied Orchestral Conducting (3 semesters -3 credits each)		9
Elective Ensembles (4 semesters – 1 credit each)		4
MUS 5906 Master's Recital (includes private conducting lessons and recital during last semester)		6
MUT 5629	Analytical Techniques	3
MUL 5505	Symphonic Literature	3
MUH 6937	Special Topics in Music History	3
MUS 5711	Music Bibliography	2

[1] Must include a vocal diction course if placement test suggests need for further training in this area. Choral conducting candidates must take placement tests in diction. Depending on the results of these tests, two of these elective credits may have to be devoted to the MUS 5206 (Graduate Review Diction) course.

Graduate Music Electives		6

Jazz Performance (36 credit hours)

Applied Music (major instrument) (3 semesters - 3 credits each)		9
Ensembles (from Studio Jazz Band/Combo/Latin Jazz Ensemble) (4 semester - 1 credit each)		4
MVJ 5150 Jazz Piano Techniques (2 semesters - 1 credit each; not required of Jazz Piano principals who take 2 credits of Classical Piano instead)		2
MUS 5711	Music Bibliography	2
Music Technology Elective (to be chosen in consultation with advisor)		2
MUT 5646, 5647: Advanced Jazz Techniques I and II		6
MUH 6937	Special Topics in Music History[2]	2
Graduate Music Electives		3
MUS 5906 Master's Recital (includes private lessons and recital during last semester)		6

Music Management and Production (36 credit hours)

MUM 5725	Live Music Operations I	2
MUM 5795	Music Production Lab	1
MUM 5726	Live Music Operations II	3
MUS 5512	Sound Reinforcement	2
MUM 5809	Music Production Seminar	3
MUM 5705	Advanced Business of Music*	3
MUM 5808	Grant Writing for the Arts	2
MUS 5910	Research	6
MUM 5946	Performing Arts Internship	4
MUS 5711	Music Bibliography	2
MUL 5XXX	Music Administration & History	3
MUN Ensemble		2
Graduate Music Electives		3

* prerequisite MUM 4301 or equivalent

Music Technology (36 credit hours)

MUC 6405	Electronic Music Lab III	2
MUC 5406	Electronic Music IV	2
MUC 5635	Computer Music Seminar I	3
MUC 5636	Computer Music Seminar II	3
MUS 5711	Music Bibliography	2
MUS 5512	Sound Reinforcement	2
PHY 5466	Physics of Music	3
MUT 5629	Analytical Techniques[3]	3
MUH 6937	Special Topics in Music History	1
MUS 5971	Thesis	6
MUM 5946	Performing Arts Internship	1-9

Master of Science in Music Education Degree hours: (30)

The M.S. in Music Education is a research oriented program designed for practicing music educators.

Admission Requirements

To be admitted into the program, a student must:

1. Hold a bachelor's degree in music from an accredited university or college;
2. Have a 'B' (3.0) average or higher in all junior and senior year course work for the bachelor's degree;
3. Exhibit classroom teaching experience;
4. Submit two (2) letters of recommendation, a writing sample, and a video of classroom teaching;
5. Complete an interview with music education faculty in place of an applied audition.

Music Education: (12)

MUE 6938	Seminar in Music Education	3
MUE 6815	Psychological Foundations of Music Behavior	3
MUE 6785	Research in Music Education	3
MUE 6190	Curriculum and Policy Design in Music Education	3

Music Courses/Common Core: (6)

MUT 5629	Analytical Techniques	3
	or	
MUT 5051	Graduate Theory Survey	3
MUH 5688	Graduate Music History Review IV	3
	or	
Graduate Music History Elective		3

Personal Focus Courses: (9)

General Electives/Cognate Area		9

Research: (3)

MUE 6910	Directed Research	3

Thesis Option:

Students may opt to extend their program by adding MUE 6971 Thesis in Music Education (2-6 credits) to their MS in Music Education.

Master of Science in Music Education: Certification Track

The M.S. in Music Education: Certification Track is a professional education degree designed for those who have studied music and wish to become a licensed music educator.

Degree hours: (35)

Admission Requirements

To be admitted into the program, a student must:

1. Hold a bachelor's degree in music from an accredited university of college'
2. Have a 'B' (3.0) average or higher in all junior and senior year course work for the bachelor's degree;
3. Show passing scores on all portions of the Florida Department of Education General Knowledge Exam.
4. Submit two (2) letters of recommendation and a writing sample;
5. Complete an interview with music education faculty in place of an applied audition.

Music Education: (12)

MUE 6938	Seminar in Music Education	3
MUE 6815	Psychological Foundations of Music Behavior	3
MUE 6190	Curriculum and Policy Design in Music Education	3

Music Courses/Common Core: (6)

MUT 5629	Analytical Techniques	3
	or	

[2] May substitute MUH 5815 Jazz History: The Innovators
[3] May substitute MUT 5051 Graduate Theory Survey

MUT 5051	Graduate Theory Survey	3
MUH 5688	Graduate Music History Review IV	3
	or	
Graduate Music History Elective		3

Personal Focus Courses: (14)

MUE 6316	Instruction in Elementary Music	3
MUE 5XXX/ 5XXX	Instruction in Secondary Instrumental/Choral Music	2
MUE 6396	Music in Special Education	3
RED 5339	Subject Related Reading	3
TSL 5361	TESOL for Secondary Teachers	3

Capstone Experience: (6)

MUE 5945	Supervised Teaching: Music Education*

*The culminating project for this degree is a full-time teaching internship within MUE5945 Supervised Teaching: Music Education. Completion of the degree and passing the Florida Department of Education Professional Knowledge and Music Subject Area exams will ensure students meet the eligibility requirements to apply to the FLDOE for a Florida Professional Teaching Certificate

Combined BM/MM in Music Composition Degree Pathway

Admission Requirements

1. Current overall GPA of 3.2 or better
2. Completed at least 75 credit hours
3. In good standing as a Music Composition Major at FIU
4. Submission of request in writing for admission into the graduate program with justification and future plans.
5. Approval from the Music Composition Program Director (undergraduate and Graduate)

Senior Year

- In the combined degree pathway students will count up to 12 credits of graduate level courses in both the B.M. and M.M degrees. Students must complete the final oral exit requirement, and Senior Composition Recital (MUS 4910)
- Students must apply for graduation so that they will receive the B.M. at the end of their senior year.

Graduate Program Requirements

All combined degree pathway student graduate credits completed as part of the B.M. will be transferred into the graduate program and counted for completion for the M.M (total 36 credits). No more than 12 credits can be applied to both degrees.

Combined BM/MM in Vocal Performance Degree Pathway

Admission Requirements

- Current overall GPA of 3.2 or better.
- Completed at least 75 credit hours
- Two letters of recommendation from FIU Faculty
- Submission of acceptable writing sample, complete with bibliography to vocal performance area coordinator at music@fiu.edu.

Requirements (36 credits)
Senior Year

- In their senior year, students will compete four 5000 level courses (10) credits)
- In their fourth year, students will also complete the exit requirement for the undergraduate Vocal Performance major, the Senior Recital, MVV 4971L (0 credit)
- Students must apply for graduation so that they will receive the B.M. at the end of their senior year.

Fifth Year

During their fifth year, students will complete 18 hours of graduate-level work, including the following

MVV 5451	Major Applied Voice (1 semester)	3
MUN 5XXX	Elective Ensemble (2 semesters/1credit each)	2
MVV 5652	Vocal Pedagogy II	2
MUO 5505	Opera Workshop (2 semester/1 credit each)	2
MUS 5711	Music Bibliography	2
MUH 6937	Special Topics in Music History	1
MUS 5906	Master's Recital	6

All students ***must*** complete the M.M credits within one year of receiving the B.M. in Music at FIU.

Combined BM/MM in Musical Theatre Degree Pathway

Admission Requirements

1. Current overall GPA of 3.0 or better.
2. Completed at least 75 credit hours
3. Two letters of recommendation from FIU Faculty
4. Submission of acceptable writing sample, complete with bibliography to vocal performance area coordinator at music@fiu.edu.

Senior Year

- In their senior year, students will compete 5000 level courses, the vocal exit requirements, and Senior Recital
- Students must apply for graduation so that they will receive the B.M. at the end of their senior year. All students must complete the M.M credits within one year of receiving the B.M. in Music at FIU.

Required Courses
First Year

MVV 1411	Major Applied Voice	2
TPP 1110	Acting I	3
MUN	Ensemble	1
MUS 1010	Recital Attendance	0
MUT 1111	Music Theory I	3
MUT 1221	Sightsinging I	1
MVV 1411	Major Applied Voice	2
MUN	Ensemble	1
MUS 1010	Recital Attendance	0
MUT 1112	Music Theory II	3
MUT 1222	Sightsinging II	1

Second Year

TPP 2111	Acting II	3
MUT 2116	Music Theory III	3
MUT 2226	Sightsinging III	1
MVV 2421	Major Applied Voice	2
MUN	Ensemble	1
MUS 1010	Recital Attendance	0
MUT 2117	Music Theory IV	3

MUT 2227	Sightsinging IV	1
MVV 2421	Major Applied Voice	2
MUN	Ensemble	1
MUS 1010	Recital Attendance	0
MUO 2001	Musical Theatre Workshop	2
MUH 3514	Music of the World	3

Third Year

MVV 3431	Major Applied Voice	3
MUN	Ensemble	1
MUS 3040	Recital Attendance	0
MUM 4301	Music Business	3
MUH 3211	Music History I	3
MVK 1111L	Class Piano I	1
MUG 4101	Basic Conducting	1
MUN	Ensemble	1
MVV 3431	Major Applied Voice	3
MVK 1112L	Class Piano II	1
MUS 3040	Recital Attendance	0
MUH 3212	Music History II	3
MVV 3970L	Junior Recital	0

Fourth Year

MUH 5656C	History of Musical Theatre	3
MVV 5451	Major Applied Voice	3
MUC 1342	MIDI Technology	2
MVK 2121L	Class Piano III	1
MUN 5648L	Musical Theatre Ensemble	1
MUS 3040	Recital Attendance	0
MUG 4111L	Musical Theatre Conducting	1
MVV 5651	Graduate Vocal Pedagogy	2
MVK 2122L	Class Piano IV	1
MVV 5451	Major Applied Voice	3
MUO 5007L	Musical Theatre Workshop- Voice	1
MUS 3040	Recital Attendance	0
MVV 4970L	Senior Recital	0
Choose 3 credits from the following:		
DAA 1500	Jazz Techniques I	3
DAA 1200	Ballet Techniques I	3
DAA 5008C	Dance for Musical Theatre*	3
TPP 2160	Voice and Movement I**	3

Fifth Year

During their fifth year, students will complete 20-23 hours of graduate-level work, including the following:

MVV 5451	Major Applied Voice	3
MUN 5648L	Musical Theatre Ensemble	1
MUS 5711	Music Bibliography	2
MUS 5906	Master's Recital	6
MUT 5629	Analytical Techniques	3
MUH 6937	Special Topics in Music Hist	1-3
Music Electives		1-5

*This course has pre-requisites, please see music advisor for two DAA pre-requisites required for this course.
**This course has a pre-requisite, please see music advisor for pre-requisite access and information.

Course Descriptions

Definition of Prefixes

MUC-Music: Composition; MUE-Music: Education; MUG-Music: Conducting; MUH-Music: History/Musicology; MUL-Music: Literature; MUM-Music: Commercial; MUN-Music: Ensembles; MUO- Music: Opera/Musical Theatre; MUR-Music: Church; MUS-Music; MUT-Music: Theory; MVB-Applied Music/Brass; MVJ-Applied Music/Jazz; MVK-Applied Music-Keyboard; MVO-Applied Music/Other; MVP-Applied Music/Percussion; MVS-Applied Music/Strings; MVV-Applied Music/Voice; MVW-Applied Music/Woodwinds.

MUC 5406 Electronic Music IV (2). An advanced course in computer music providing students hands-on experience with recently developed hardware and software for the creation of music. Prerequisite: MUC 4400.

MUC 5407 Electronic Music V (2). Students develop new hardware and/or software for uses related to musical composition. Prerequisite: MUC 5406.

MUC 5614C Documentary Film Scoring (3). The examination of documentary film scores in the 20th and 21st century and scoring techniques used by documentary film composers in both acoustic music and scores created with new technologies. Prerequisites: Graduate standing in the MM in composition and/or permission of the instructor.

MUC 5615 Film Scoring (3). An in-depth analysis of film scores in the 20th and 21st century as well as scoring techniques used by film composers in acoustic music as well as scores created with new technologies. Prerequisites: Graduate standing in the School of Music and successful completion of 4 semesters of undergraduate music theory.

MUC 5635 Computer Music Seminar I (3). Introduces students to the historical contributions of computer music composers and engineers. Prerequisites: MUC 6305, MUC 6306. Corequisite: MUC 6405.

MUC 5636 Computer Music Seminar II (3). Introduces students to the compositional procedures used by computer music composers. Prerequisites: MUC 6305, MUC 6306, MUC 6405. Corequisite: MUC 5406.

MUC 5637 Computer Music Seminar III (3). Introduces students to the research technologies for making interactive sound projects including installations and exhibits. Prerequisites: MUC 6305, MUC 6306, MUC 6405, MUC 5406.

MUC 5935 Composition Forum (1). Student composers present their work for critique by faculty and topics relevant to composition are presented by faculty and guests. Prerequisite: Admission into the graduate composition program.

MUC 6251 Graduate Music Composition (3). The writing of evolved musical compositions with regard to each student's strengths and aesthetic development. Graduate standing in Music Composition and or permission of the instructor.

MUC 6305 Electronic Music Lab I (2). Exploration of the electronic medium including the history of electronic music, digital studio techniques, analog studio techniques, digital synthesis and analog synthesis. Prerequisites: MUC 5345 or permission of the instructor.

MUC 6306 Electronic Music Lab II (2). Continuation of Electronic Music Lab I with an emphasis on advanced MIDI applications including sampling, digital sequencing, digital signal processing and interactive MIDI software. Includes one large composition project. Prerequisite: MUC 6305.

MUC 6405 Electronic Music Lab III (2). Special projects in advanced electronic music programming environments including C-sound, MAX, Interactor, HMSL and CHANT. Includes one large composition project. Can be repeated 4 times. Prerequisite: MUC 6305.

MUE 5336 Secondary Choral Methods (2). Choral/vocal teaching methods to middle and high school students in a large ensemble setting. Field experience is required.

MUE 5338 Secondary Instrumental Methods (2). Wind, percussion, and string teaching methods for middle and high school level students in a large ensemble setting. Field experience is required.

MUE 5485 Marching Band Techniques (3). A study of show design and concepts; marching band management and organizational procedures including booster organizations, inventory, handbooks, grading procedures, rehearsal techniques. Prerequisite: Permission of the instructor.

MUE 5695 Landscape of 21st Century Performing Arts (3). This course examines the ways in which, using critical thinking, creativity and communication proficiency, students will be able to recognize the challenges that face today's performing arts educator, artist and organization. It aims to develop multiple ways to articulate and discuss new ways of teaching, performing and working within the arts. The objective is to guide students to innovative and multiple ways to apply their musical experiences to fit today's challenges and adaptive arts landscape.

MUE 5907 Directed Study in Music Education (1-3). Individual investigation in one or more areas of music education.

MUE 5921 Choral Conducting Workshop (3). The study of various topics related to choral literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5922 String Workshop (3). The study of various topics related to string literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5923 Instrumental Conducting Workshop (3). The study of various topics related to instrumental ensemble literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5924 Jazz Workshop (3). The study of various topics related to jazz literature, conducting and techniques. Prerequisite: Permission of the instructor.

MUE 5928 Workshop in Music (3). Applications of materials and techniques in music in a laboratory or field setting.

MUE 5945 Supervised Teaching: Music Education (6). Supervised teaching. Prerequisites: Admission to the Modified Masters Track Program and completion of prerequisite course work in education and the subject matter area.

MUE 6190 Curriculum and Policy Design in Music Education (3). Examination of the relationship between curriculum theory, policy practice and philosophical ideals within music education. Evaluation of traditional and innovative models and impact on learning.

MUE 6305 Instruction in Early Childhood Music (3). Elective in masters program in early childhood education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, in preschool, kindergarten and primary grades.

MUE 6316 Instruction in Elementary Music (3). This course is designed to provide a balance and make connections between the study of theory and philosophy and the practice of music education and working with elementary-aged children.

MUE 6345 The Methodology and Analysis of Music Teaching (3). A data based analysis of methods and programs in the public schools and the development of music pedagogy skills. Reviews current research findings and applies them where applicable to the field of Music Education. Required for the Masters Degree. Prerequisite: Undergraduate Degree.

MUE 6396 Music in Special Education (3). The study of musical experiences for students with disabilities in mainstreamed and self-contained special education music classes. Musical adaptations and modifications are emphasized.

MUE 6785 Research in Music Education (3). A survey of current research and past research trends in music education. Applied training in techniques of design and data analysis.

MUE 6815 Psychological Foundations of Music Behavior (3). Overview of acoustical, psychological and physiological foundations of music as it influences human behavior. Covers musical acoustics, anatomy of human hearing, music perception, reactions, personality, mood and powers of music discrimination. Required for the Master of Science in Music Education degree. Prerequisite: Undergraduate degree.

MUE 6910 Directed Research (3). This course is designed to provide an opportunity for students to engage in high-level inquiry focusing on an area of specialization within the music education profession.

MUE 6925-26 Special Topics in Music Education (1-3). Applications of new, innovative or contemporary materials and/or techniques in music education. May be used for elective credit with permission of the program director.

MUE 6938 Seminar in Music Education (3). Seminar topics concerning historic music education programs in the United States and other countries, as well as current issues and problems facing the music educator. Required for the Master of Science in Music Education degree. Prerequisite: Undergraduate degree.

MUE 6971 Thesis in Music Education (1-3). Research and paper for Masters Candidates in Music Education. Prerequisites: MUE 6785 and permission of Graduate Advisor in Music Education.

MUG 5105L Advanced Conducting Techniques (1). An extension of form and analysis, with interpretation both in instrumental and choral conducting. Twentieth century scoring and symbol interpretation will be studied in depth, with actual conducting experience required.

MUG 5205 Graduate Applied Choral Conducting (3). Advanced study of choral conducting, including gesture, rehearsal techniques, and repertoire. Prerequisites: Graduate standing and permission of the instructor.

MUG 5307 Graduate Applied Instrumental Conducting (3). Advanced study of wind conducting, including gesture, rehearsal techniques, and repertoire. Prerequisites: Graduate standing and permission of the instructor.

MUG 5935 Conducting Seminar (1). An examination of the principal issues of conducting, emphasizing score reading and study, rehearsal, interpretation, and contemporary techniques. Prerequisites: Graduate standing and/or permission of the instructor.

MUG 6309 Graduate Applied Orchestral Conducting (3). Advanced study of orchestral conducting, including gesture, rehearsal techniques and repertoire. May be repeated. Prerequisites: Graduate standing or permission of the instructor.

MUH 5025 History of Popular Music in the U.S. (3). Overview of Afro-American and Euro-American popular music and its historical development. Examination of musical style and social context in lecture-discussion format with film and video.

MUH 5057 Music of the World (3). Survey of folk, popular and classical musical traditions from around the world. Examination of musical style and social context with film and performance demonstrations.

MUH 5065 Latino Music in the United States (3). Survey of Latin American musical traditions brought through immigration. Examination of musical style and social context in lecture-discussion format with film and performance demonstrations.

MUH 5066 Music of Mexico and Central America (3). A survey of folk, popular and classical musical traditions in the region. Examination of musical style and social context in lecture-discussion format with film and performance demonstrations.

MUH 5067 Music of the Caribbean (3). Survey of folk, popular and classical musical traditions and their ongoing connection with Caribbean populations in the U.S. Class includes film and performance demonstrations.

MUH 5075 Women in Music (3). Introduces students to women musicians including performers, composers, and researchers from all genres.

MUH 5219 Graduate Music History Survey (1-3). Music history overview for entering graduate students. Prerequisite: Music history placement test.

MUH 5345 Musical Style and Practice in the Baroque Era (3). Detailed treatment of the genres, styles, and composers of the Baroque period within the wider context of Baroque aesthetics and culture. Exploration and application of Baroque performance practice.

MUH 5546 Music of the Americas (3). An exploration of the folk, popular, and art music of Latin America.

MUH 5575 Survey of Asian Music (3). Examines the major Asian musical traditions within the cultural framework of history, arts and traditions.

MUH 5656C History of Musical Theatre (3). Graduate seminar with rotating topics, each one focusing in-depth on a specific historical era, or subject related to the history of Musical Theatre literature and its performance. Music majors only

MUH 5815 Jazz History: The Innovators (2). The work of four artists whose innovations have profoundly defined the jazz idiom from its beginning through the present day-Duke Ellington, Charlie Parker, Miles Davis, and John Coltrane.

MUH 6937 Special Topics in Music History (1-3). Graduate seminar with rotating topics, each one focusing on a narrow historical era, geographical area, or subject related to the history of music and its performance. May be repeated. Prerequisites: Pass all sections of Music History Placement Test, MUH 5219, or MUH 5685-88.

MUL 5405 Keyboard Literature I (3). Study of solo works for the keyboard from historical beginnings to 1828. Performance practices and stylistic analysis will be emphasized, with illustrations of representative works.

MUL 5406 Keyboard Literature II (3). Study of solo works for the keyboard from 1828 to the present. Performance practices and stylistic analysis will be emphasized, with illustrations of representative works. Prerequisite: MUL 5405.

MUL 5435 Guitar Literature (3). Survey of solo, chamber, and concerto guitar literature from the 16th century to the present. Repertoires will be examined from historical, analytical, pedagogical, and text-critical perspectives.

MUL 5456 Wind Instrument Literature (3). The history and development of Wind Instrument Literature from ca. 1650 to the present day. Music appropriate for all levels of instruction from middle school through college level is included. Prerequisites: Graduate standing in Music and permission of the instructor.

MUL 5495 Survey of Organ Literature (3). Survey of organ literature, history, performance practice and organ design. Includes historic sound recordings and in-class performance. Prerequisites: Graduate standing in Music and permission of the instructor.

MUL 5496 Organ Literature I (3). Survey of organ literature from antiquity to 1750 in the German, French, Italian schools.

MUL 5497 Organ Literature II (3). Survey of organ literature from 1750 to the present in the German, French, and American schools.

MUL 5505 Symphonic Literature (3). The study of the symphony and the symphonic tone poem from its origin in the Baroque period to the twentieth century. Prerequisites: Graduate standing in Music and permission of the instructor.

MUL 5607 Vocal Literature I (2). A survey of solo vocal literature from the 17th century to the late 18th century. Emphasis will be placed on a discussion of ornamentation and performance-practice and comparisons of editions. Prerequisites: Graduate standing in Music and permission of the instructor.

MUL 5609 Survey of Art Song Literature (3). An historical survey of the literature for solo voice from the medieval period to the national schools of the contemporary era.

MUL 5624 Vocal Literature II (2). The German Lied and its poetry. Emphasis will be placed on a study of the poets and their poetry, important facts of the composers' lives

and times and other musical and cultural developments. Prerequisite: Graduate Standing.

MUL 5625 Vocal Literature III (2). The French Melodie. Emphasis will be placed on a study of the poets and their poetry, their styles and schools, the composers' lives and times and other musical and cultural developments. Prerequisite: Graduate Standing.

MUL 5626 Vocal Literature IV (2). Twentieth-century art song. Emphasis will be placed on the rise of the nationalist schools, the development of atonalism and other modern schools of thought. Prerequisites: Graduate standing in Music and permission of the instructor.

MUL 5645 Choral Literature (3). A survey of sacred and secular choral literature from the Middle Ages to the present. Emphasis on stylistic analysis and performance practice for each style period. Includes score study, aural analysis of recorded performances and in-class performances. Prerequisites: Graduate standing in Music and permission of the instructor.

MUL 5671 Opera Literature (3). A chronological survey of operatic literature from the 17th century to the present day. Emphasis placed on the historical milieu in which the operatic form evolved through the ages. Prerequisites: Graduate standing in Music and permission of the instructor.

MUM 5705 Advanced Business of Music (3). Topics include strategic planning, employee development, and decision making. Also includes a study of publishing, collection agencies, creative unions, and contracts with composers and publishers. Prerequisites: MUM 4301 and permission of the graduate advisor.

MUM 5715 Performing Arts Production I (2). Focus on the various aspects of performing arts production. Students attend performances of every possible genre of performing arts and critique the production and the venue. Prerequisite: Permission of the graduate advisor.

MUM 5725 Live Music Operations I (2). How promoters and producers project a profit margin and the ability to oversee a profit; considering overhead, scheduling, accommodations, concessions, sound and light. Prerequisite: Permission of the graduate advisor.

MUM 5726 Live Music Operations II (3). Continuation of MUM 5725, Live Music Operations I. Emphasis on promoters', producers', and managers' ability to project a profit margin. An on-campus production is required as the final project. Prerequisites: MUM 5725 and permission of the graduate advisor.

MUL 5728C Survey of Cuban Piano Music (2). The course is an in-depth survey of Cuban piano music written during the XIX and XX centuries, accompanied by an examination of Cuba's cultural and political heritage.

MUM 5795 Music Production Laboratory I (1). Students are assigned to work in the production of 10-15 individual concert productions. The productions are varied and provide the students the opportunity to put in practice work learned in the classroom. Prerequisite: Permission of the graduate advisor.

MUM 5796 Music Production Laboratory II (1). A continuation of Music Production Lab I. Students are assigned to work in the production of 10-15 individual concert productions. Prerequisites: MUM 5795 and permission of the graduate advisor.

MUM 5808 Grant Writing for the Arts (2). Designed to familiarize the student with the tools and techniques in writing a successful grant proposal. Focuses on the perspective of the arts manager/administrator in relations to grant writing and grant management.

MUM 5809 Music Production Seminar (3). Explores issues and practical applications in the management of music centers, arts organizations and arts centers. Includes examination of local arts centers, local arts councils, music venues, performing arts venues, arts organization and arts service organizations. Prerequisites: Graduate standing or permission of instructor.

MUM 5946 Performance Arts Internship (1-9). Interns assist and/or observe in all job functions and duties at an entertainment venue. Areas include: production management; design services; technical production; talent booking and casting; and creative show development. Prerequisite: Permission of the graduate advisor.

MUN 5105L FIU Marching Band (3). A study and performance of pop, jazz, and rock musical selections for the instrumental medium. Students will demonstrate what they have learned by performing and through individualized playing examinations. Prerequisite: Permission of the instructor.

MUN 5125L Symphony Band (1). Concert Band ensemble for music majors on secondary instruments and non-music majors. Various types of concert band literature covered from differing grade levels. Course open to anyone who has previous experience playing a wind or percussion instrument.

MUN 5145L Symphonic Wind Ensemble (1). Readings and performances of wind ensemble music from the 18th century to the present. Open to wind and percussion instrumentalists. Prerequisite: Permission of the conductor.

MUN 5215 Orchestra (1). An instrumental ensemble performing works from the symphonic repertory. Prerequisites: Previous experience and permission of the conductor.

MUN 5245 String Ensemble (1). Performance of orchestra literature for large string ensembles. Prerequisite: Permission of the instructor.

MUN 5315 Concert Choir (1). A choral ensemble performing music written and arranged for mixed voices. Prerequisite: Permission of the instructor.

MUN 5325 Women's Chorus (1). A choral ensemble performing music written or arranged for women's voices. Prerequisite: Permission of the instructor.

MUN 5335 Men's Chorus (1). A choral ensemble performing music written or arranged for men's voices. Prerequisite: Permission of the instructor.

MUN 5345 University Chorale (1). A mixed choir performing repertoire from Renaissance to Modern, as well as multicultural works. Prerequisite: Permission of the conductor.

MUN 5385L University Singers (1). A chorus performing a repertoire primarily from great choral works. Large

orchestral accompaniment as well as various instrumental ensembles will be utilized. Prerequisite: Permission of the conductor.

MUN 5396L Gospel Choir (1). This course consists of the study and performance of sacred music in the Gospel Choir style. Voice technique, musicanship, and performance practice elements will be discussed and utilized.

MUN 5435L University Brass Choir (1). A study and performance of literature written for the brass medium (trumpet, horn, trombone, euphonium, and tuba) from the pre-baroque, baroque, classical, romantic and contemporary periods. May be repeated. Prerequisite: Permission of the instructor.

MUN 5445L Percussion Ensemble (1). A study and performance of music literature characteristic of the percussion ensemble. Prerequisite: Permission of the instructor.

MUN 5455L Piano Ensemble (1). The presentation and performance of music literature characteristic of piano and pianos in ensemble.

MUN 5465 Chamber Music (1). Small ensemble in the performing of chamber music literature. Prerequisite: Permission of the conductor.

MUN 5477 Collegium Musicum (1). Collegium musicum provides a forum for the study and performance of the musical literature of the Medieval, Renaissance, and Baroque eras. Participation in the composition of program notes and rehearsal direction are additional components. Prerequisite: Permission of the instructor.

MUN 5485 Guitar Ensemble (1). The presentation and performance of music literature characteristic of the Guitar Ensemble. Prerequisite: Permission of the conductor.

MUN 5496 New Music Ensemble (1). A chamber group of varying instrumentation and size performing art music from the 20th century with emphasis on music from the past 20 years. Explores electronics, multimedia works, etc. Prerequisite: Permission of the instructor.

MUN 5515L Accompanying (1). Accompanying instrumental and vocal students in studio and recital situations.

MUN 5648L Musical Theatre Ensemble (1). The presentation and performance of literature indigenous to the Musical Theatre stage. Music majors only.

MUN 5715 Studio Jazz Ensemble (1). An ensemble to provide creative professional-level experience in the contemporary popular idiom. Permission of the conductor.

MUN 5716 Jazz Combo Class (1). Harmonic practice, formal procedures, rhythmic and improvisational practices of jazz performance in the small group. Prerequisite: Permission of the conductor.

MUN 5725 Jazz Vocal Ensemble (1). Students learn to perform both as a soloist and ensemble singer. Expectations are progressive in accordance with student's class level. Ensemble includes a rhythm section to accompany the vocalists.

MUN 5785 Jazz Ensemble Rehearsal Techniques (1). An ensemble that provides its members a creative approach to jazz ensemble rehearsal techniques, literature, improvisation and related materials. Prerequisite: Permission of the instructor.

MUN 5795 Latin Jazz Ensemble (1). An ensemble to provide professional-level experience in the salsa/Latin jazz idiom. May be repeated. Prerequisite: Permission of the instructor.

MUN 5826 Latin American Music Ensemble (1). Study and performance of one or more folk and/or popular musical styles from Latin America.

MUO 5007L Musical Theatre Workshop-Voice (1). A workshop-style class for graduate level Musical Theatre majors. Preceding class work is integrated into this course, as well as study of all phases of Musical Theatre production. Music majors only.

MUO 5505 Opera Workshop (1). The presentation and performance of music literature indigenous to the opera stage. Prerequisite: Permission of the director.

MUR 5946 Organ Practicum (2). Study of practical aspects of organ performance as it pertains to employment within a sacred chamber music setting. MUS 5205 Graduate Review Diction I (2). To review the rules and methods of correct pronunciation of Italian, French and Latin lyric diction as applied to singing opera, oratorio and art song.

MUS 5205 Graduate Review Diction I (2). To review the rules and methods of correct pronunciation of Italian, French, and Latin lyric diction as applied to singing opera, oratorio, and art song.

MUS 5206 Graduate Review Diction II (2). A review of the rules and skills for proper enunciation of English, German and Spanish language in the performance of classical vocal music.

MUS 5213 English Diction (1). Refine enunciation skills of the English language as used by singers in opera, oratorio, and art song literature. Extensive study of the use of International Phonetic Alphabet and its application. Corequisite: Applied MVV, MVK, MUG

MUS 5226C French Diction (1). Refine enunciation skills of the French language as used by singers in opera, oratorio, and art song literature. Extensive study of the use of International Phonetic Alphabet and its application. Corequisite: Applied MVV, MVK, MUG

MUS 5236C German Diction (1). Refine enunciation skills of the German language as used by singers in opera, oratorio, and art song literature. Extensive study of the use of International Phonetic Alphabet and its application. Corequisites: Applied MVV, MVK, MUG

MUS 5345 MIDI Technology (2). Introduction to MIDI technology including sequencing, notation, patch editing and a variety of other applications. Prerequisites: Graduate standing in Music and permission of the instructor.

MUS 5246C Italian Diction (1). Refine enunciation skills of the Italian language as used by singers in opera, oratorio, and art song literature. Extensive study of the use of International Phonetic Alphabet and its application. Corequisite: Applied MVV, MVK, MUG

MUS 5512 Sound Reinforcement (2). Exploration of live music on location, dealing with commonly encountered

acoustical problems and how to overcome them. Prerequisite: Permission of the graduate advisor.

MUS 5527 Laptop and Electronic Arts Ensemble (1). The Laptop and Electronic Arts Ensemble explores new combinations of live electronics with acoustic instruments and other media by performing a diverse repertoire of music and new works. May be repeated. Prerequisites: MUC 2301/MUC 6305.

MUS 5655 Expanding Artistic Expression (2). Focuses on expanding the horizons of the artistic vision of the student. Accomplished through a series of projects. Prerequisite: Permission of the graduate advisor.

MUS 5711 Music Bibliography (2). Library research methods and materials; documentation of research results in bibliographic style. Develops critical thinking and evaluative skills regarding sources of information, print and online. Prerequisites: Graduate standing in Music and permission of the instructor.

MUS 5905 Directed Study (VAR). Designed to provide areas of exploration and specialization beyond the basic selected study programs, such as electronic music, religious music literature, sound techniques, etc. Prerequisite: Permission of the instructor.

MUS 5906 Master's Recital (1-6). For students working on a recital for Master in Music. To be completed under the supervision of a faculty member. Prerequisites: Graduate standing and permission of the instructor.

MUS 5910 Research (VAR). Research composition or performance projects, under the guidance and direction of the music faculty. (May be repeated). Prerequisite: Permission of the instructor.

MUS 5971 Thesis (1-6). Research and/or performances towards completion of master's thesis work. Prerequisites: Graduate standing and permission of the instructor.

MUS 6658 Experimental Music and Arts (3). The course covers the history of interdisciplinary art created in the 20th century while giving students from different areas the opportunity to create interdisciplinary works.

MUT 5051 Graduate Theory Survey (1-3). Analytical, theoretical and aural skills required for successful graduate studies in music. Prerequisites: Graduate standing in Music and permission of the instructor.

MUT 5152 Comprehensive Musical Systems (3). Examination of various comprehensive theoretical systems utilized in the analysis of music. Prerequisites: Graduate standing in Music and permission of the instructor.

MUT 5316 Advanced Orchestration (3). Examination of orchestration techniques utilized by composers from the Baroque era through current times. Prerequisites: Graduate standing in Music and permission of the instructor.

MUT 5355 Advanced Jazz Arranging and Composition (2). Scores and recordings of various sized jazz ensembles are studied for technique and style. Students' compositions and arrangements are performed. Topics include: forms, voicing techniques, instrumentation-live performance vs. recording session. Prerequisites: MUT 4353; MUT 4663; MUT 4664.

MUT 5381 Arranging (3). A course in practical arranging for the public school teacher, including choral, band, and popular arranging. Prerequisites: MUT 2117 and MUT 2227.

MUT 5411 Modal Counterpoint (3). Develop skills necessary to write in the Renaissance style and to analyze the masterworks of Palestrina, Lassus, Victoria, and others. Prerequisites: Graduate standing in Music and permission of the instructor.

MUT 5486 Advanced Jazz Rehearsal Techniques (2). Study and practical application of complete preparation, programming, and rehearsing of small and large jazz ensembles. Students study scores and recordings of various jazz styles and rehearse school's ensembles. Prerequisites: MUN 4784; MUT 4643; MUT 4663; MUT 4664.

MUT 5585 Musical Styles Through Strict Composition (3). This course is designed to develop basic compositional skills for writing works in all forms. Prerequisites: Graduate standing in Music and permission of the instructor.

MUT 5627 Schenkerian Analysis (3). Advanced studies in Schenkerian analysis of tonal music. Prerequisites: Graduate standing in Music and permission of the instructor.

MUT 5628 Atonal Analysis (3). Advanced studies in set theory and serial techniques of twentieth-century music. Prerequisites: Graduate standing in Music and permission of the instructor.

MUT 5629 Analytical Techniques (3). Examination and practice of various techniques utilized in the analysis of art music from the common practice period through the 20th century. Prerequisites: Graduate standing in Music and permission of the instructor. Placement tests required.

MUT 5646 Advanced Jazz Techniques I (3). A comprehensive, theoretical study of topics related to jazz performance. Includes the nature of improvisation, advanced jazz harmony, theory of jazz improvisation, transcribing and analyzing solos of jazz masters. Prerequisite: MUT 4643.

MUT 5647 Advanced Jazz Techniques II (3). A continuing study of topics related to jazz performance. Includes analyzing solos of jazz masters, development of repertoire, style, and aesthetic concepts. Prerequisite: MUT 5646.

MUT 5746 Jazz Pedagogy (2). Materials, techniques, and philosophies related to teaching jazz. Includes preparation of courses, course outline and syllabi, lesson plans, lectures. Texts and other resources such as videos, recordings, periodicals, are examined. Prerequisites: MUT 4663; MUT 5355.

MUT 5930 Special Topics (3). Examination of composers, compositional schools, or other areas of specialization and/or interest to the theory/composition faculty. Prerequisites: Graduate standing in Music and permission of the instructor.

MVB 5251 Secondary Applied Trumpet (1). Individual instruction in applied music on trumpet as a secondary instrument. Prerequisite: Permission of the instructor.

MVB 5252 Secondary Applied French Horn (1). Individual instruction in applied music on French horn as a secondary instrument. Prerequisite: Permission of the instructor.

MVB 5253 Secondary Applied Trombone (1). Individual instruction in applied music on trombone as a secondary instrument. Prerequisite: Permission of the instructor.

MVB 5254 Secondary Applied Baritone Horn (1). Individual instruction in applied music on baritone horn as a secondary instrument. Prerequisite: Permission of the instructor.

MVB 5255 Secondary Applied Tuba (1). Individual instruction in applied music on tuba as a secondary instrument. Prerequisite: Permission of the instructor.

MVB 5351 Principal Applied Trumpet (2). Individual instruction in applied music on trumpet as a principal instrument. Music majors only.

MVB 5352 Principal Applied French Horn (2). Individual instruction in applied music on French horn as a principal instrument. Music majors only.

MVB 5353 Principal Applied Trombone (2). Individual instruction in applied music on applied trombone as a principal instrument. Music majors only.

MVB 5354 Principal Applied Baritone Horn (2). Individual instruction in applied music on baritone horn as a principal instrument. Music majors only.

MVB 5355 Principal Applied Tuba (2). Individual instruction in applied music on tuba as a principal instrument. Music majors only.

MVB 5451 Major Applied Trumpet (3). Individual instruction in applied music on trumpet as a major instrument. Music majors only.

MVB 5452 Major Applied French Horn (3). Individual instruction in applied music on French horn as a major instrument. Music majors only.

MVB 5453 Major Applied Trombone (3). Individual instruction in applied music on trombone as a major instrument. Music majors only.

MVB 5454 Major Applied Baritone Horn (3). Individual instruction in applied music on baritone horn as a major instrument. Music majors only.

MVB 5455 Major Applied Tuba (3). Individual instruction in applied music on tuba as a major instrument. Music majors only.

MVJ 5150 Jazz Piano Techniques (1). Performance of basic jazz standards. Includes basic techniques of the instrument, chord voicing, comping, lead sheet realization for non-pianists. Prerequisites: Graduate standing or permission of the instructor.

MVJ 5250 Secondary Jazz Piano (1). Individual instruction in applied jazz music on piano. Prerequisites: Preceding course in sequence or permission of the instructor.

MVJ 5253 Secondary Jazz Guitar (1). Individual instruction in applied jazz music on guitar. Prerequisites: Preceding course in sequence or permission of the instructor.

MVJ 5254 Secondary Jazz Bass (1). Individual instruction in applied jazz music on bass. Prerequisites: Preceding course in sequence or permission of the instructor.

MVJ 5255 Secondary Jazz Flute (1). Individual instruction in applied jazz music on flute. Prerequisites: Preceding course in sequence or permission of the instructor.

MVJ 5256 Secondary Jazz Saxophone (1). Individual instruction in applied jazz music on saxophone. Prerequisites: Preceding course in sequence or permission of the instructor.

MVJ 5257 Secondary Jazz Trumpet (1). Individual instruction in applied jazz music on trumpet. Prerequisites: Preceding course in sequence or permission of the instructor.

MVJ 5258 Secondary Jazz Trombone (1). Individual instruction in applied jazz music on trombone. Prerequisites: Preceding course in sequence or permission of the instructor.

MVJ 5259 Secondary Latin Jazz Percussion (1). Individual instruction in applied jazz music on percussion. Prerequisites: Preceding course in sequence or permission of the instructor.

MVJ 5350 Principal Applied Jazz: Keyboard (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5351 Principle Applied Jazz Voice (2). Individual instruction in the Jazz Vocal Idiom. Study includes health and vocal technique, advanced development of repertoire, specific and necessary skills for compelling public performance.

MVJ 5353 Principal Applied Jazz Guitar (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5354 Principal Applied Jazz: Bass (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz. Prerequisite: MVJ 4344.

MVJ 5355 Principal Applied Jazz: Flute (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5356 Principal Applied Jazz: Saxophone (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique. eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5357 Principal Applied Jazz: Trumpet (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5358 Principal Applied Jazz: Trombone (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5359 Principal Applied Jazz: Percussion (2). Individual advanced instruction on major instrument. An in-depth study of overall instrumental technique, eminent jazz styles, and other performance practices that are particularly relevant to jazz.

MVJ 5450 Major Applied Jazz Piano (3). Individual instruction in applied music at the graduate level. Prerequisite: Audition.

MVJ 5451 Major Applied Jazz Voice (3). Individual instruction in the Jazz Vocal Idiom at an advanced graduate level, consistent with the other courses in the MM in Jazz performance degree. Study includes healthy vocal technique, eminent vocal jazz and related musical styles, singing with a microphone, advanced development of repertoire, specific and necessary skills for a strong public and recorded performance.

MVJ 5453 Major Applied Jazz Guitar (3). Individual instruction on major instrument, focusing on the jazz idiom. An in-depth study of overall instrumental technique, eminent styles, and other performance practices that are particularly relevant to jazz and commercial performance. Prerequisite: Music majors only.

MVJ 5454 Major Applied Jazz Bass (3). Individual instruction on major instrument, focusing on the jazz idiom. An in-depth study of overall instrumental technique, eminent styles, and other performance practices that are particularly relevant to jazz and commercial performance. Prerequisite: Music majors only

MVJ 5455 Major Applied Jazz Drums (3). Individual instruction in applied music at the graduate level. Prerequisite: Audition.

MVJ 5456 Major Applied Jazz Saxophone (3). Individual instruction on major instrument. An in-depth study of overall instrumental technique, styles, and other performance practices particularly relevant to jazz. Prerequisite: Audition.

MVJ 5457 Major Applied Jazz Trumpet (3). Individual instruction in applied music on jazz trumpet at a major level. Prerequisite: Music majors only.

MVJ 5458 Major Applied Jazz Trombone (2). Individual instruction in applied music on jazz trombone at a major level. Prerequisite: Music majors only.

MVJ 5459 Major Applied Jazz Latin Percussion (3). Individual instruction in applied music on jazz percussion as a major instrument. Prerequisite: Music majors only.

MVK 5251 Secondary Applied Piano (1). Individual instruction in applied music on piano as a secondary instrument. Prerequisite: Permission of the instructor.

MVK 5253 Secondary Applied Organ (1). Individual instruction in applied music on organ as a secondary instrument. Prerequisite: Permission of the instructor.

MVK 5351 Principal Applied Piano (2). Individual instruction in applied music on piano as a principal instrument. Music majors only.

MVK 5353 Principal Applied Organ (2). Individual instruction in applied music on organ as a principal instrument. Music majors only.

MVK 5451 Major Applied Piano (3). Individual instruction in applied music on piano as a major instrument. Music majors only.

MVK 5453 Major Applied Organ (3). Individual instruction in applied music on organ as a major instrument. Music majors only.

MVK 5605 Organ Pedagogy (2). An overview of historical and modern organ methods, pedagogies and supporting material.

MVK 5651 Piano Pedagogy (2). Survey of current piano teaching methods.

MVK 5712 Survey of Dance Accompaniment (1). Survey of European dance tradition and musical accompaniment. Particular emphasis on the selection, improvisation/composition of musical accompaniment to Classical Ballet. Prerequisite: Graduate piano majors.

MVO 5651 Graduate Pedagogy (1). The development of teaching skills required by graduate assistants, including classroom skills, designing examinations, etc. Prerequisite: Graduate assistants.

MVP 5251 Secondary Applied Percussion (1). Individual instruction in applied music on percussion as a secondary instrument. Prerequisite: Permission of the instructor.

MVP 5351 Principal Applied Percussion (2). Individual instruction in applied music on percussion as a principal instrument. Music majors only.

MVP 5451 Major Applied Percussion (3). Individual instruction in applied music on percussion as a major instrument. Music majors only.

MVS 5251 Secondary Applied Violin (1). Individual instruction in applied music on violin as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 5252 Secondary Applied Viola (1). Individual instruction in applied music on viola as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 5253 Secondary Applied Cello (1). Individual instruction in applied music on cello as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 5254 Secondary Applied Double Bass (1). Individual instruction in applied music on double bass as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 5255 Secondary Applied Harp (1). Individual instruction in applied music on harp as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 5256 Secondary Applied Guitar (1). Individual instruction in applied music on guitar as a secondary instrument. Prerequisite: Permission of the instructor.

MVS 5351 Principal Applied Violin (2). Individual instruction in applied music on violin as a principal instrument. Music majors only.

MVS 5352 Principal Applied Viola (2). Individual instruction in applied music on viola as a principal instrument. Music majors only.

MVS 5353 Principal Applied Cello (2). Individual instruction in applied music on cello as a principal instrument. Music majors only.

MVS 5354 Principal Applied Double Bass (2). Individual instruction in applied music on double brass as a principal instrument. Music majors only.

MVS 5355 Principal Applied Harp (2). Individual instruction in applied music on harp as a principal instrument. Music majors only.

MVS 5356 Principal Applied Guitar (2). Individual instruction in applied music on guitar as a principal instrument. Music majors only.

MVS 5451 Major Applied Violin (3). Individual instruction in applied music on violin as a major instrument. Music majors only.

MVS 5452 Major Applied Viola (3). Individual instruction in applied music on viola as a major instrument. Music majors only.

MVS 5453 Major Applied Cello (3). Individual instruction in applied music on cello as a major instrument. Music majors only.

MVS 5454 Major Applied Double Bass (3). Individual instruction in applied music on double brass as a major instrument. Music majors only.

MVS 5455 Major Applied Harp (3). Individual instruction in applied music on harp as a major instrument. Music majors only.

MVS 5456 Major Applied Guitar (3). Individual instruction in applied music on guitar as a major instrument. Music majors only.

MVS 5545 Orchestral Audition Repertoire (3). This course prepares upper string players, primarily violinists, for professional auditions by coaching them intensively in the standard audition repertoire and by holding mock auditions. Prerequisite: Permission of the instructor.

MVV 5251 Secondary Voice (1). Individual instruction in applied music on voice as a secondary instrument. Prerequisite: Permission of the instructor.

MVV 5351 Principal Applied Voice (2). Individual instruction in applied music on trumpet as a principal instrument. Music majors only.

MVV 5451 Major Applied Voice (3). Individual instruction in applied music on voice as a major instrument. Music majors only.

MVV 5651 Graduate Vocal Pedagogy I (2). An introduction to the history and development of vocal pedagogy for the graduate voice major. Emphasis will be placed on a study of the anatomy and acoustics of the human voice.

MVV 5652 Graduate Vocal Pedagogy II (2). Practical application of the principles of vocal technique in the studio. Emphasis will be placed on the psychological factors which apply to singing and the teaching of singing. Prerequisite: Graduate Vocal Pedagogy I.

MVW 5251 Secondary Applied Flute (1). Individual instruction in applied music on flute as a secondary instrument. Prerequisite: Permission of the instructor.

MVW 5252 Secondary Applied Oboe (1). Individual instruction in applied music on oboe as a secondary instrument. Prerequisite: Permission of the instructor.

MVW 5253 Secondary Applied Clarinet (1). Individual instruction in applied music on clarinet as a secondary instrument. Prerequisite: Permission of the instructor.

MVW 5254 Secondary Applied Bassoon (1). Individual instruction in applied music on bassoon as a secondary instrument. Prerequisite: Permission of the instructor.

MVW 5255 Secondary Applied Saxophone (1). Individual instruction in applied music on saxophone as a secondary instrument. Prerequisite: Permission of the instructor.

MVW 5351 Principal Applied Flute (2). Individual instruction in applied music on flute as a principal instrument. Music majors only.

MVW 5352 Principal Applied Oboe (2). Individual instruction in applied music on oboe as a principal instrument. Music majors only.

MVW 5353 Principal Applied Clarinet (2). Individual instruction in applied music on clarinet as a principal instrument. Music majors only.

MVW 5354 Principal Applied Bassoon (2). Individual instruction in applied music on bassoon as a principal instrument. Music majors only.

MVW 5355 Principal Applied Saxophone (2). Individual instruction in applied music on saxophone as a principal instrument. Music majors only.

MVW 5451 Major Applied Flute (3). Individual instruction in applied music on flute as a major instrument. Music majors only.

MVW 5452 Major Applied Oboe (3). Individual instruction in applied music on oboe as a major instrument. Music majors only.

MVW 5453 Major Applied Clarinet (3). Individual instruction in applied music on clarinet as a major instrument. Music majors only.

MVW 5454 Major Applied Bassoon (3). Individual instruction in applied music on bassoon as a major instrument. Music majors only.

MVW 5455 Major Applied Saxophone (3). Individual instruction in applied music on saxophone as a major instrument. Music majors only.

Architecture

Henry Rueda, *Chair and Associate Teaching Professor*
Alfredo Andía, *Associate Professor*
Biayna Bogosian, *Assistant Professor*
Claudia Busch, *Associate Teaching Professor*
Jaime Canavés, *Professor*
Jason R. Chandler, *Associate Professor*
Albert Elias, *Assistant Teaching Professor*
Nicholas Gelpi, *Associate Professor*
Eric Goldemberg, *Associate Professor*
Neil Leach*, Associate Professor and Director, Doctor of Design*
Mark Marine, *Assistant Teaching Professor and Director of FIU by Design*
Nikolay Nedev, *Associate Teaching Professor*
Marilys R. Nepomechie, *Distinguished University Professor and Associate Dean of Faculty and Program Development*
Eric Peterson, *Associate Teaching Professor*
Gray Read, *Associate Professor*
David Rifkind, *Associate Professor*
Camilo Rosales, *Professor*
Elisa Silva, *Associate Professor, Department of Architecture and the Wolfsonian Public Humanities Lab*
Thomas Spiegelhalter, *Professor*
John Stuart, *Distinguished University Professor, Associate Dean for Cultural and Community Engagement, and Executive Director, Miami Beach Urban Studios*
Shahin Vassigh, *Professor and Director of Technology Research Development*

The Department of Architecture is dedicated to the education of future generation of ethical professionals, creative designers, and informed citizens. We believe architecture to be a conceptually based endeavor and a form of critical inquiry that addresses the physical environment from the scale of the city to the scale of furniture. To realize these objectives, architectural design is taught as a critical and creative enterprise.

The Department offers three graduate degrees: The accredited Master of Architecture (M. Arch), the advanced post-professional Master of Arts in Design (MAA) and the post-professional Doctor of Design (DDes).

Applicants to the school should plan for the financial aspects of a design education. These include the cost associated with required access to a laptop computer as well as the costs of software, travel and field trips, tools and equipment, and modeling supplies. Students in the program must have access to a laptop computer through purchase, lease or other arrangements. For further information contact the Department.

A broad interdisciplinary framework characterizes the program, with emphasis placed upon six thematic areas: architectural design, history/theory, building technologies, digital technology, ethics and professional practice, and general education.

The program maintains a commitment to excellence in teaching, creative activity, research and scholarship and seeks to attract a diverse student body with a variety of academic backgrounds, experiences and interests. Our students and faculty members reflect the diverse areas of knowledge that play a critical role in the making of the built environment and in the establishment of successful design practices.

Miami is an urban laboratory for the study of architecture. The region provides limitless possibilities for exploring historic architecture and urbanism, as well as contemporary works by many of the world's leading architects. At the same time, the challenges of rapid growth and urban development in Miami and the region have created an ideal environment for the study of these issues. The program takes advantage of Miami's position as one of the principal academic and commercial gateways to Latin America and Europe.

Professional Degree

The Master of Architecture (M.Arch) is a professional degree accredited by the National Architectural Accrediting Board (NAAB). This degree is available to students with or without pre-professional degrees in architecture. The Department offers the following professional degree tracks:

Master of Architecture (non-pre-professional degree + 105 graduate credits)

Students with any undergraduate degree and no previous experience in architectural study follow the Professional Three-Year M. Arch Plan, consisting of 105 credit hours. It is typically completed in approximately three years.

Master of Architecture (pre-professional degree + 60 graduate credits)

Students who have earned an undergraduate pre-professional four-year degree in architecture follow the Professional Two-Year M. Arch Plan, consisting of 60 credit hours. It is usually completed in two years.

Master of Architecture (72 undergraduate credits + 102 graduate credits)

Students may also earn the M. Arch through the 174 credit hour track which begins freshman year with two years of pre-graduate coursework (72 credit hours) and concludes after an additional 102 credit hours of integrated graduate level credit hours taken over three or four years. Students will transition seamlessly between their pre-graduate and graduate study. The Professional Master of Architecture degree (M. Arch) is conferred at the conclusion of the entire course of study (174 credit hours). No undergraduate degree is awarded at any point in this plan.

Post-Professional Degrees

Applicants who already hold a professional degree in architecture (B. Arch or M. Arch) from a program accredited by the National Architectural Accrediting Board (NAAB) should apply for the One-Year Post-professional Master of Arts in Design (MAA) consisting of 36 credit hours, or the four-semester post-professional Doctor of Design (DDes), consisting of 60 credit hours. Students will pursue advanced and focused study and have the opportunity to work with faculty on research projects.

NAAB Statement

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs

in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

Florida International University, College of Architecture and The Arts, Department of Architecture offers the following NAAB-accredited degree program tracks:

Master of Architecture (72 undergraduate credits + 102 graduate credits)

Master of Architecture (pre-professional degree + 60 graduate credits)

Master of Architecture (non-pre-professional degree + 105 graduate credits)

Next accreditation visit for all program tracks: 2026

Ownership of Student Work

Student work, submitted to the Department in satisfaction of course or degree requirements, becomes the physical property of the Department. However, students retain all rights to the intellectual property of such work. This work may include papers, drawings, models, and other materials. The Department assumes no responsibility for safeguarding such materials. At its discretion, the Department may retain, return, or discard such materials. The Department will not normally discard the materials of currently enrolled students without giving the student a chance to reclaim them.

Admissions Requirements for all Professional Graduate Degree Tracks in the Department of Architecture

All applicants must meet University graduate admissions requirements. Applicants to the Department of Architecture degree programs must also submit a portfolio of creative work for review.

The portfolio review examines evidence of creative ability, academic success, and professional achievement. It is an important component of the admissions process. Please contact the Department of Architecture for specific portfolio requirements. The deadline for portfolio submission is January 15th of each year. Portfolios submitted after this date will be considered if studio space is available.

Students who have successfully completed the portfolio review process must also meet the minimum requirements of an undergraduate degree from an accredited college or university with undergraduate grade point average (GPA) of 3.0 on a 4.0 scale, or hold a graduate degree from an accredited institution or have completed the entirety of the pre-graduate component of the Department's Accelerated MArch track to be fully admitted in the graduate program.

Progression Requirements

1. No grade below a 'C' will be accepted for graduation in required courses or professional electives.
2. Student must achieve an overall cumulative graduate GPA of 3.0 in order to apply for to graduation. Refer to Graduate Catalog and the University Graduate School Rules and Regulations for information on Academic Warning, Probation, and Dismissal.

Academic Travel

The Architecture Department values academic travel both nationally and abroad. Immersion in other cities and cultures provides our students with critical experiences that enhance learning. The firsthand interaction with exemplary completed buildings and sites, as well as those under construction, enrich learning throughout the curriculum. It is a requirement of the academic program in Architecture that each student participate in at least one of the department's travel options before graduation. The department offers three options for travel: 1-Residence abroad for a full semester through our Genoa, Italy, program; 2- International travel through one of the many study abroad programs offered each summer; and 3-Domestic travel outside Miami as part of a design studio. Students must hold a 3.0 or higher cumulative graduate GPA to participate in Study Abroad programs.

Miami Beach Urban Studios (MBUS)

MBUS offers architecture students a unique opportunity to study in one of the nation's most vibrant and artistic urban centers. While studying at MBUS, students gain valuable professional experience working with local design practitioners, and with innovative public and private organizations in the area. Located in the iconic 420 Lincoln Road building, MBUS provides architecture students expansive gallery/exhibition spaces, design studios, and classroom space, that encourage collaborative explorations with students studying in other areas of study within the College of Architecture and The Arts, including: Music, Art, Art History, Theater, and Communication Arts. MBUS provides students with a base from which they may explore local fine arts, designs, performances, museums and galleries, including FIU's The Wolfsonian-FIU, located only blocks away. Important areas of study for architecture students at MBUS include, but not limited to, Sustainability, Historic Preservation, Urbanism, Hospitality Design, Community Design, and Architecture and Real Estate Development.

Master's Project/Thesis Requirement

Graduate students in all masters degree programs are required to undertake a master's project or a master's thesis as part of their course of study in the Department of Architecture.

Master of Architecture

Professional Degree Tracks
(Accredited by NAAB)

THREE-YEAR TRACK – 105 Credits

A professional degree for students with a Bachelor of Arts or a Bachelor of Science, or equivalent, from an accredited institution.

Degree Track (105)

Prerequisites: (11)

PHY 2053	Physics w/o Calculus	4
MAC 1147	Pre-Calculus	4
ARC 4058	Fundamentals of Digital Design	3

First Year (Fall Semester): (15)

ARC 5075	Formative Studio I	6
ARC 5711	History of Design from Antiquity to Middle Ages	3
ARC 5249	Introduction to Design Theories	3
ARC 5612	Environmental Systems in Architecture 1	3

First Year (Spring Semester): (18)

ARC 5076	Formative Studio 2	6
ARC 5733	History of Design Renaissance to 1840	3
ARC 5582	Structures 1	1
ARC 5582L	Structures 1 Lab	2
ARC 5467	Materials and Methods of Construction	3
SPC 5066	Presentation Skills for Architects	3

First Year (Summer Semester): (15)

ARC 5077	Formative Studio 3	6
ARC 5554	Structures 2	1
ARC 5554L	Structures 2 Lab	2
ARC 5176C	Computer Practice II	3
ARC Directed Elective		3

Second Year (Fall Semester): (15)

ARC 5361	Integrated Comprehensive Design	6
ARC 5205	Adv. Design Theories	3
ARC 5483	Integrated Building Systems	3
ARC 5744	History of Design from the XIX Century to Present	2
ARC 5744L	History of Design from the XIX Century to Present Lab	1

Second Year (Spring Semester): (12)

ARC 5362	Architectural Design 9: Sustainable Practices	6
ARC 5555	Structures 3	1
ARC 5555L	Structures 3 Lab	2
ARC 5621	Environmental Systems in Architecture 2	3

Third Year (Fall Semester) (Miami or Genoa Italy): (15)

ARC 6356	Architectural Design 10	6
ARC Directed Elective		3
ARC Directed Elective		3
ARC Directed Elective		3

Third Year (Spring Semester): (15)

ARC 6970	Master's Project	6
ARC 6280	Professional Office Practice	3
ARC Directed Elective		3
ARC 6949	Architect Registration Exam Preparation	3

TWO-YEAR TRACK – 60 Credits

A professional track for students who have completed a 4-year pre-professional Bachelor of Arts in Architecture or Bachelor of Architectural Studies degree.

Degree Track (60)

First Year (Fall Semester): (15)

ARC 5361	Integrated Comprehensive Design	6
ARC 5205	Adv. Design Theories	3
ARC 5483	Integrated Building Systems	3
ARC 5554	Structures 2*	1
ARC 5554L	Structures 2 Lab*	2

First Year (Spring Semester): (15)

ARC 5362	Architectural Design 9: Sustainable Practices	6
ARC 5555	Structures 3*	1
ARC 5555L	Structures 3 Lab*	2
ARC 5621	Environmental Systems in Architecture 2*	3
SPC 5066	Presentation Skills for Architects	3

First Year (Summer Semester): (3)

ARC 5176C	Computer Practice II	3

Second Year (Fall Semester) (Miami or Genoa Italy): (12)

ARC 6356	Architectural Design 10	6
ARC 5744	History of Design from the XIX Century to Present*	2
ARC 5744L	History of Design from the XIX Century to Present Lab*	1
ARC Directed Elective		3

Second Year (Spring Semester): (15)

ARC 6970	Master's Project	6
ARC 6280	Professional Practice	3
ARC Directed Elective		3
ARC 6949	Architect Registration Exam Preparation	3

*May be replaced with ARC elective if the content of these courses has been satisfied in the pre-professional degree program. A minimum of one of these 3 credit classes is to be satisfied in the pre-professional degree program.

Master of Arts in Design - 36 credits

Post-Professional Degree

(Not eligible for accreditation by NAAB)

The Master of Arts in Design is a 36-credit post-professional degree program that enables students to pursue advanced studies This degree offers a unique opportunity for qualified students to study industrial and product design with advanced technologies including additive and subtractive manufacturing, robotics, fabrication, sensor technologies and Internet of things (IoT), Augmented Reality (AR), Virtual Reality (VR) as well as other applied technologies. The program will prepare students with a design thinking and theory base and technical skills for innovative and functional design of sustainable and green products, technology-enhanced wearables, and experiential products using digital interfaces and virtual environments.

Admission Requirements

The following is in addition to the University's graduate admission requirements:

1. Applicants seeking admission to the program must have either an accredited Professional BArch degree with a 3.0 GPA or an accredited Professional March degree.
2. Applicants seeking admission to the program must have either an accredited Professional BArch degree with a 3.0 GPA based on the last 60 hours of undergraduate study or an accredited Professional March degree.
3. Applicants must submit a portfolio of creative work for review. The portfolio review examines evidence of

creative ability, academic success, and professional achievement.
4. Applicants must submit three letters of recommendation.
5. Applicants must submit a Statement of Intent clearly indicating which area of specialization they intend to pursue and why. The statement should include the applicant's qualifications for research and a brief outline of their intent and goal. The statement should demonstrate the applicant's intellectual merit and motivation for pursuing advanced study. Applicants will be evaluated on strength of their statement, personal achievement, and their commitment to making a meaningful contribution to the field through their research.
6. Applicants must submit a writing sample that demonstrates the candidates' written communication skills. The sample should be illustrative of their writing and does not have to be related to the proposed area of specialization.

Graduation Requirements

The degree will be conferred when the following conditions are met:
1. Recommendation of the Primary Advisor and faculty of the Department.
2. Certification provided by the Department Chair, College Dean, and University Graduate School that all degree requirements have been met.
3. Completed undergraduate course deficiencies if specified at admission with no grades below a "C" and a GPA ≥ 3.0.
4. No grade below a "C" will be accepted for graduation in required course or professional electives.
5. Completed MADES Capstone course.

Course Requirements

First Year (Fall Semester)

ARC 5340	Design 7	6
ARC 5935	Directed Elective	3
ARC 6906	Independent Study	3
ARC 5176C	Computer Practices II	3

First Year (Spring Semester)

ARC 5343	Design 8	6
ARC 6906	Independent Study	3
ARC 6184	Advanced Studies in Technology (Online)	3
ARC 6229	Theories of the Digital (Online)	3

Second Year (Fall Semester)

ARC 6948	MADES Capstone	6

Study Abroad programs may be included in this degree in consultation with the student's primary advisor.

Doctor of Design – 60 credits

The Doctor of Design Program is a 60-credit, four-semester program.

The admission standards for applicants to the Doctor of Design Program are:
1) Hold a Master of Architecture degree from accredited program, or equivalent professional architectural degree, or other advanced degrees subject to program approval.
2) Have a GPA of 3.25 in their master's degree program.
3) Submit three letters of recommendation to the Architecture Program Chair from faculty members or supervisors qualified to evaluate the applicant's potential for doctoral work.
4) Submit a brief letter of interest in the program and future career goals.
5) Submit a portfolio and preliminary statement of research interest.
6) Receive recommendation for admission from the Departmental Doctoral Education Committee.
7) International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL (equivalent to 550 on the TOEFL) is required.

The graduation requirements for the Doctor of Design Program are completion of the 60-credit hour postmaster's curriculum with a 3.0 or higher GPA, with each course having a grade of B- or higher. Additionally, a student must be in compliance with the FIU Graduate School graduation requirements to be eligible for graduation.

Fifteen credits are taken as part of the FIU 174-credit Master of Architecture degree. The course descriptions are included in Section E below for MArch courses to be considered for application to the DDes. Students applying with Master of Architecture degrees from other universities will have 15 credits evaluated for recency/applicability as transferable and applied to the DDes or will be required to enroll in 15 credits at FIU based on the MArch courses identified in Section E.

Core Courses (15 credits)

ARC 6229	Theories of the Digital	3
ARC 6761	Miami Urban Studies	3
ARC 6184	Advanced Studies in Technology	3
ARC 7981	Advanced Research Methods	3
ARC 6204	Architecture Philosophy	3

Research Requirements (30 credits)

ARC 6906	Independent Study	6
ARC 7980	Doctoral Project	21
ARC 7982	Doctoral Defense	3

There are short annual residency periods, which will be held at our Miami Beach Urban Studios (MBUS) that will support all classes.

Certificate in History, Theory and Criticism of Architecture

The Graduate Certificate in History, Theory and Criticism of Architecture offers exceptional students from the School of Architecture and throughout the university community a chance to follow a rigorous course of study in history, theory and criticism, including a required seminar devoted to research methodologies. For architecture students, we offer the further option of a pedagogical apprenticeship, where faculty members mentor students seeking to become teachers. For students outside the School of Architecture, we offer an opportunity to supplement their studies in history, anthropology, environmental science, art history, literature, area studies and other fields with an intense and systematic engagement with cultural

production and the visual arts. The certificate program helps students hone their critical skills as they generate new knowledge and embark on self-directed research. Students admitted to a graduate degree program at FIU may apply for admission to the Graduate Certificate in History, Theory and Criticism of Architecture. This certificate program is open to degree-seeking students only.

Certificate Requirements

Participants must fulfill the requirements outlined for the Graduate Certificate in History, Theory and Criticism of Architecture and complete each course with a satisfactory grade.

Program Requirements (18 credits):

Required Courses: (9 credits)

ARC 5205	Advanced Design Theories
ARC 5744	History of Design from the XIX Century to Present
ARC 6947	Graduate Research Methods (offered during fall semester)

Electives: (9 credits)

The nine remaining credits hours may be drawn from a variety of courses. The following list represents examples of elective courses appropriate for the completion of the certificate program. Students should consult with faculty and advisors since new courses are frequently added. Up to six course credits in departments other than architecture may be included, as approved by the graduate advisor.

ARC 5035	Film and the Architecture of Modern Life
ARC 5381	Architecture and the Performing Arts
ARC 5396	Case Studies in Architecture
ARC 5711	History of Design Antiquity to Middle Ages
ARC 5733	History of Design Renaissance to XIX Century
ARC 5935	Special Topics
ARC 5943	Pedagogy Seminar
ARC 5744	History of Design from the XIX Century to Present
ARC 5745	Urban Architecture and the 20th Century
ARC 5786	Urbanism: Social History of the Built Form
ARC 5798	Hotels: Miami and La Habana at Mid-Century
ARC 5803	Preservation Architecture: Issues and Practices
ARC 5933	Special Topics in Architecture
ARC 5776	Modern Architecture - Projects and Polemics
ARC 5037	Architecture and Video Media
ARC 5175	Contemporary Digital Strategies
ARC 5745	Urban Architecture and the 20th Century
ARC 6947	Research Methods
IND 5138	History of Modern Interiors
IND 5164	History of 21st Century Furniture Design
LAA 5235	Theory of Landscape Architecture
LAA 5243	Regional Landscape Issues
LAA 5716	History of Landscape Architecture
LAA 6247	Modern Landscape Architecture

Teaching Opportunities

Full-time graduate students have the opportunity to work as Graduate Assistants in courses related to the student's area of focus, including courses in history, theory and criticism, as well as design studios. Students enrolled in the Pedagogy Seminar discuss teaching methods with faculty members from the School of Architecture and from other disciplines across the university.

Course Descriptions

Definition of Prefixes

ARC-Architecture; HUM-Humanities
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

ARC 5035 Film and the Architecture of Modern Life (3). Critical overview of social and spatial implications of film on architecture and design over the course of the 20th century.

ARC 5036 Miami in Film (3). How the natural and built environment of South Florida are portrayed in films.

ARC 5037 Architecture and Video Media (3). This course will examine intersections between architecture and video media from critical historical and contemporary perspectives.

ARC 5075 Formative Studio (6). Introduction to concept development, spatial expression, and representational techniques in architecture. (F)

ARC 5076 Formative Studio 2 (6). A continuation of Architectural Design investigations begun in Formative Studio. Prerequisite: ARC 5075. (S)

ARC 5077 Formative Studio 3 (6). An Architectural Design Studio that builds upon concepts and approaches presented in Formative Studio and Formative Studio 2. Prerequisite: ARC 5076. (SS)

ARC 5165 Graduate Digital Fabrication (3). This course considers digital design and fabrication methodologies and techniques in architecture with an emphasis upon the use of laser cutting, cnc milling and 3d printing at the graduate level. Prerequisite: ARC 4058.

ARC 5175 Contemporary Digital Strategies (3). Study of advanced digital techniques as generative tools for design and representation. Focus on surface and spatial modeling and parametric relationships. Prerequisites: ARC 4058, ARC 5176.

ARC 5176C Computer Practices in Design II (3). Advanced study in concepts, issues and methods in computer-aided architectural design. Prerequisites: ARC 4058 or equivalent. Corequisite: ARC 5362.

ARC 5177 Topology and Performance (3). Exploration of the relationship between form and performance through the use of animation and scripting techniques. Prerequisite: Program approval.

ARC 5184 Architecture and the Virtual Environment (3). Implementation of virtual reality technology in architectural representations of existing and proposed built environments for presentation and design research. Prerequisites: ARC 4173, ARC 4174.

ARC 5186 Interactive Media (3). Presentation of digital images through an interactive and animated interface

online or offline, as well as exploration of ideologies of interactive media.

ARC 5189 Visual Effects (3). Introduction of digital video and audio post-production techniques that add sound, text and visual effects to animations, as well as exploration of ideologies of digital animation.

ARC 5193 Design Presentation Graphics (3). Exploration of design presentation techniques and portfolio design through the use of digital photography, digital illustration, desk top publishing and web page.

ARC 5205 Advanced Design Theories (3). This seminar analyzes western and non-western examples of critical ideology through the investigation of key historical moments and current architectural theory and practice. (F)

ARC 5249 Introduction to Design Theories (3). Introduction to the environmental parameters, morphological concepts and ideological principles that generate form and meaning in architecture. Explorations of related spheres of cultural production will also be explored in lectures, readings, and student assignments. Corequisite: ARC 5075.

ARC 5311 Building Information Modeling (3). This course will familiarize students with numerous foundational concepts such as parametric modeling, assembly modeling, associativity generative and interactive drafting.

ARC 5329 Architectural Design 5 (6). Integration of structure and construction techniques in the production of a small to mid-sized public project that incorporates site considerations, materials and structure. Prerequisites: ARC 2304, ARC 4586 and admission to the major. (F)

ARC 5335 Architectural Design 6 (6). This studio focuses on housing and related components including the repetitive spatial and structural elements, circulation and contextual considerations. Prerequisites: ARC 5329 (S)

ARC 5340 Architectural Design 7 (6). A flexible framework for appropriate investigations of complex spatial, programmatic, contextual, constructional and ethical issues involved in design projects. Course content varies with instructor. Prerequisites: ARC 5335 (F,S,SS)

ARC 5343 Architectural Design 8 (6). Architectural design explorations of site, building codes, community objectives will be undertaken through individual programming, process and design initiatives for a complex building project. Prerequisite: ARC 5340 (F,S)

ARC 5361 Integrated Comprehensive Design (6). Exploration of arch systems; structural, environmental, life-safety, assembly and enclosure on building form, content and expression. Students will assess and integrate systems into the design process. Corequisite: ARC 5483. (F,SS)

ARC 5362 Architectural Design 9: Sustainable Practices (6). Architectural projects of medium scale. Exploration and application of sustainable practices emphasizing relation of site and environmental issues to architectural production and design methodology. Prerequisites: Graduate standing and ARC 5361. (S)

ARC 5370 Urban Development 1 (3). Introduction to the planning and management of urban development projects.

ARC 5371 Urban Development 2 (3). Advanced planning and management of urban development projects. Prerequisite: ARC 5370.

ARC 5381 Architecture and the Performing Arts (3). This seminar will consider what architects might learn from the performing arts, particularly how stagecraft can inform design for social spaces in the city.

ARC 5392 Urban Vertical Surface (3). Analysis of the mechanisms of surfaces: wall section, the bay, frame, grid, and their transformations.

ARC 5396 Case Studies in Architecture (3). The course explores the vast array of decisions that create the architectural experience of outstanding built works.

ARC 5467 Materials and Methods of Construction (3). Study of the types of construction and materials used in institutional, residential, and office building assemblies. How materials are installed and inspected, including the use of special equipment. Explorations of the theories and histories of construction will be explored.

ARC 5483 Integrated Building Systems (3). Exploration of arch systems integration and specifications in design and construction processes; structural, environmental, life-safety, assembly and enclosure systems are included. Corequisite: ARC 5361. (F)

ARC 5486 Architectural Installations (3). This course will examine the traces of history of architectural fabrications and its relations to the visual arts, media, and technology.

ARC 5554 Structures 2 (1). This is the second course in the structures sequence and will introduce fundamentals of structural analysis and design for timber and steel buildings using quantitative process. Prerequisites: ARC 2580 or ARC 5582 or ARC 4586.

ARC 5554L Structures 2 Lab (2). The lab sessions will supplement lectures through additional practice and hands-on exercise problems that are designed to enhance the application of structural concepts. Prerequisites: ARC 2580 or ARC 4586 or ARC 5582. Corequisite: ARC 5554.

ARC 5555 Structures 3 (1). This is the third course in the structures sequence. It is focused on analysis and design of reinforced concrete structures and lateral resistive systems. Prerequisite: ARC 5554.

ARC 5555L Structures 3 Lab (2). The lab sessions will supplement lectures through additional practice and hands-on problems that are designed to enhance the application of structural concepts. Prerequisite: ARC 5554. Corequisite: ARC 5555.

ARC 5582 Structures 1 (1). Through the study of statics and strength of materials this course provides a scientific basis for understanding structural systems behavior. Prerequisites: PHY 2053 and MAC 2233 or MAC 1114 or MAC 1147.

ARC 5582L Structures 1 Lab (2). The lab sessions will supplement lectures through additional practice and hands-on problems that are designed to enhance the application of structural concepts. Prerequisites: PHY 2053 and MAC 2233 or MAC 1114 or MAC 1147. Corequisite: ARC 5582.

ARC 5612 Environmental Systems in Architecture 1 (3). This course considers thermal, electrical, mechanical and conveyance systems and their integration in the architectural design process. Prerequisite: ARC 2304.

ARC 5621 Environmental Systems in Architecture 2 (3). This course considers the role of acoustic and luminous behaviors in architecture and the architectural design process. Topics including daylighting, artificial lighting, electrical systems and acoustics. Prerequisite: ARC 2304.

ARC 5623 Design Ecology and Technology (3). This course explores the environmental impact of design decisions, their philosophical underpinnings and the role played by technology.

ARC 5695 Environmental Systems for Healthcare Environments (3). Study of building environmental systems and building performance issues that impact the design of Healthcare environments.

ARC 5711 History of Design: Antiquity to Middle-Ages (3). Survey of architectural, interior, and landscape design from antiquity to the middle ages, including Western and non-Western traditions. Explorations of related and causal ideologies will be covered in lectures, readings, and student assignments. Corequisite: ARC 5075.

ARC 5733 History of Design: Renaissance to XIX Century (3). Survey of architectural, interior, and landscape design from the Renaissance to the nineteenth century, including Western and non-Western traditions. Explorations of related and causal ideologies will be covered in lectures, readings, and student assignments. Corequisite: ARC 5076.

ARC 5734 Culture and Art in Italy (3). Course describes the evolution of culture and aesthetics and their immediate relationship with the creation of these works. Consists of site visits and class lectures. Additional readings and project for graduate students.

ARC 5744 History of Design from the XIX Century to Present (2). Survey and advanced analysis of architecture, interior architecture, and landscape architecture from the XIX century to the present, including western and non-western traditions. Explorations of related and causal ideologies will be covered in lecture. Corequisite: ARC 5744L.

ARC 5744L History of Design from the XIX Century to Present Lab (1). Laboratory section for ARC 5744. Reading and discussion of course texts and writing assignment. Laboratory work in conjunction with set lab. Prerequisites: ARC 2701, ARC 2702. Corequisite: ARC 5744.

ARC 5745 Urban Architecture and the 20th Century (3). The course will examine debates on urban architecture surrounding the rise of Modernism in the 1920s and will follow those lines of thought into current discussions of architectural design in cities.

ARC 5750 Architectural History of the Americas (3). Historical analysis of the development of built forms and styles in tropical and subtropical Americas, investigating its socio-political and artistic context. Prerequisite: Permission of the instructor.

ARC 5756 The Architecture of the City (3). The study of urban architecture in Genoa, Italy, with emphasis on analysis and representation using manual drawing, digital photography, and conceptual model.

ARC 5770 Historiographic Methods in Architecture (3). Seminar course designed to introduce graduate students to historiographic methodologies in architecture through close readings of key texts. Prerequisite: Graduate standing.

ARC 5776 Modern Architecture - Projects and Polemics (3). This seminar focuses on close readings of primary sources drawn from key works of architectural theory. The course also explores key historical text, architectural theory and criticism. Prerequisite: ARC 5744.

ARC 5786 Urbanism: Social History of the Built Form (3). This course introduces students to historical analysis, theories, techniques and aesthetics as they relate to urban design.

ARC 5798 Hotels: Miami and La Habana at Mid-Century (3). A research-based, in-depth study of mid-century modern hotels constructed in Miami/Miami Beach, Florida and La Habana, Cuba just prior to the Cuban revolution.

ARC 5803 Preservation Architecture: Issues and Practices (3). This course explores issues and practices of architectural preservation as an integral concern of architecture.

ARC 5905 Solar Decathlon (1). Research based course to develop the architectural and engineering concepts for the solar decathlon house.

ARC 5933 Special Topics (1-6). Coursework on a particular aspect of architecture under the direction of faculty in a classroom format. Prerequisite: Program approval.

ARC 5935 Special Topics (3). Coursework on a particular aspect of architecture under the direction of faculty in a classroom format.

ARC 5936 Cejas Eminent Scholar Graduate Seminar (1-3). Seminar/workshop course taught by distinguished educators, scholars, and designers. Lectures, critical readings and discussions of thematic topics make up the course.

ARC 5938 Special Topics Design Studio (6). An architectural design studio based on a particular aspect of architectural design and relevant ideologies under the direction of appropriate faculty.

ARC 5939 GreeN: Designing for Sustainability (3). This course will review established and emerging principles of sustainable design/construction, and test strategies for their implementation in design practice. Prerequisite: Graduate standing.

ARC 5941 Internship Experience (0). Experience in architectural practice learned through work with licensed professionals.

ARC 5943 Pedagogy Seminar (3). Seminar course designed to train graduate teaching assistants, who lead discussion sections and evaluate undergraduate student assignments in the accompanying undergraduate history survey course.

ARC 5945 Architecture Internship (1-3). Advanced issues in architecture practice learned through work experience with licensed professionals.

ARC 6184 Advances Studies in Technology (3). This course explores the role of emerging technologies including robotics, digital fabrication, sensing, and advanced visualization tools for innovation in design and architectural production. Prerequisite: admission to doctoral program

ARC 6204 Architectural Philosophy (3). This course explores how ideas from contemporary continental philosophy and other related fields might inform a discourse about architecture and urbanism. Prerequisite: ARC 6229

ARC 6229 Theories of the Digital (3). This course explores theories of the digital. The aim is to develop a theoretical framework to understand the impact of the digital on architectural design, fabrication and urban life. Prerequisite: Admission to the doctoral program.

ARC 6246 Design Thinking and Creative Process (3). Using literature on design methods, design cognition, cognitive psychology and design protocol studies, students will learn about the various models of creative process in design.

ARC 6257 Health Care Theory (3). Exploration of health care theory, it's manifestation in specific health care models and delivery systems, plus, its implementation in design of healthcare environments.

ARC 6280 Professional Office Practice (3). Study of the ethical, legal, financial, and managerial aspects of professional practice in architecture.

ARC 6296 Professional Development (3). In-depth exploration of current legal, administrative and financial aspects of architectural practice.

ARC 6356 Architectural Design 10 (6). Architectural project emphasizing design development preparation of details and design documents for buildings of intermediate complexity. Prerequisites: ARC 5362. Corequisite: ARC 6910. (F)

ARC 6375 Resilient Urbanism (3). This interdisciplinary course examines concepts of urban resiliency for disaster management. Students will study disaster vulnerability, building resilience, and the role of green infrastructure.

ARC 6386 Healthcare Design 1 (6). Advanced design studio addressing prevailing and future issues in healthcare design.

ARC 6387 Healthcare Design Studio 2 (6). Students explore application of theoretical issues in order to create 'what-if scenarios in health care design that might not be currently addressed in industry.

ARC 6389 Environment and Behavior Theory (3). Students explore, analyze, and interpret various environment and behavior theories appropriate for designing healthcare environments.

ARC 6761 Miami Urban Studies (3). Studies concerning the social, political, economic and environmental of Urbanism in Southern Florida in general and Miami in particular. Prerequisite: Admission into the Doctoral Program.

ARC 6906 Independent Study (1-6). Coursework on a particular aspect of Architecture under the direction of faculty in an individual study format. Prerequisite: Program approval.

ARC 6910 Graduate Seminar (3). Coursework under the directio of faculty in preparation for a master's thesis or master's project in architecture. Prerequisite: ARC 6947. Corequisite: ARC 6356.

ARC 6947 Research Methods (3). Methods of data acquisition, analysis, and interpretation used in architecture research. Corequisite: ARC 5362.

ARC 6948 MADES Capstone (6). Coursework under the direction of faculty for completion of research or design project for the Master of Arts in Design degree. Prerequisite ARC 6947

ARC 6949 Architect Registration Exam Preparation (3). Preparation to take the Architect Registration Exam. Prerequisite: ARC 5361 and ARC 5483

ARC 6970 Master's Project (6). Coursework under the direction of faculty for the completion of project by candidate for the degree of Master of Architecture. Prerequisite: ARC 5361, ARC 6356, ARC 5555, ARC 5621, ARC 5744, ARC 5205, ARC 5176.

ARC 6971 Master's Thesis (1-6). Coursework under the direction of faculty for the completion of a research or design thesis by candidate for the degree of Master of Architecture. Prerequisite: ARC 6910.

ARC 7980 Doctoral Project (3-9). Coursework under the direction of faculty for the completion of the Doctoral Project by a candidate for the degree of Doctorate of Design.

ARC 7981 Advanced Research Methods (3). Advanced methods of data acquisition, analysis, and interpretation used in architectural research.

ARC 7982 Doctoral Defense (3). The formal presentation of the Doctoral Project. Prerequisite: ARC 7980, 12 credits, Corequisite: ARC 7980, 9 credits.

HUM 5258 Ways of Seeing: Modern Perception in Literature and Architecture (3). Interdisciplinary elective on modern definition of perception in literature, architecture and the arts in the first half of the 20th century.

Art and Art History

Brian D. Schriner, *Interim Chair*
Tori Arpad-Cotta, *Associate Professor*
Benjamin Zellmer Bellas, *Associate Professor*
Sharon (Pip) Brant, *Associate Professor*
William Burke, *Professor*
David Y. Chang, *Professor*
James Couper, *Professor Emeritus*
Eduardo Del Valle, *Professor Emeritus*
Edouard Duval-Carrié, *Courtesy Professor*
Guido Fiorato, *Courtesy Professor*
Jahaira Ríos Campos y Gálvez, *Visiting Assistant Teaching Professor*
Mirta Gomez Del Valle, *Professor Emeritus*
Daniel Guernsey, *Associate Professor*
Clive King, *Professor Emeritus*
Jacek J. Kolasinski, *Associate Professor*
William Maguire, *Professor*
Miriam Mirolla, *Courtesy Professor*
Silvia Pease, *Assistant Teaching Professor*
Jonathan Perez, *Assistant Teaching Professor*
Jennifer Printz, *Assistant Professor*
Gretchen Scharnagl, *Associate Teaching Professor, Art and Art History, and the Honors College*
Tom Scicluna, *Assistant Professor*
Fereshteh Hamidi Toosi, *Assistant Professor*
Constantino Manuel Torres, *Professor Emeritus*
Barbara Watts, *Associate Professor*
Lidu Yi, *Associate Professor*
David Webber, *Assistant Teaching Professor*

Master of Fine Arts in Visual Arts

The MFA in Visual Arts is an intense, production-oriented studio art program directed toward individual development. The curriculum is designed for maximum flexibility to accommodate both those seeking advanced training in a particular studio area and those whose interests may involve more media cross-over. Graduates of the program will be prepared for careers as professional artists. The MFA is the terminal degree in Studio Art.

Graduate Admission Requirements

Application to the MFA in Visual Arts is a two-step process.

First, please complete and FIU Graduate Application from that can be completed online via the following link: https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html. As part of this application, you will need to provide the following:

1. Successful completion of the bachelor's degree in art or equivalent;
2. Certified transcripts of all college level work;
3. Three (3) letters of recommendation from persons who are in a position to evaluate the applicant's previous professional, academic, and personal performance, and his or her potential for success in the graduate program;
4. For international and foreign graduated domestic applicants whose language of instruction for the undergraduate degree was not English, an IELTS score of 6.5 or TEOFL score of 550 paper-based/80 internet-based is required; and
5. Please note that the Department of Art + Art History does not require GRE test scores.

Secondly, please upload the following to Get Accepted (separate nominal fee charged by Get Accepted):

1. A written statement of intent (no more than 500 words), which should enhance the Graduate Admissions Committee's understanding of the applicant's creative work and outlined plan for its development in the program;
2. A portfolio that includes 20 images (300 dpi, jpeg format); and
3. Your CV.

Degree Requirements

The MFA requires 60 semester hours of course work at the graduate level to be distributed as follows:

Tutorial Instruction in Studio Practice		18
Tutorial Instruction in Studio Electives		17
ART 5938C	Studio Pedagogy	1
ART 5939	Graduate Art Seminar I	3
ARH 5805	Critical Studies in the Visual Arts	3
	and	
(3) Art History electives		9
ART 6971	Graduate Prospectus & Exhibition Preparation	3
ART 5907C	Directed Study	3
Elective(s)		3

Note: The catalog descriptions for the following courses are for MFA students as well as MS Art Education students.
ART 5930C Drawing, ART 5391C Figure Drawing, ART 5408C Printmaking, ART 5580C Painting, ART 5740C Sculpture, ART 5792C Figure Sculpture, PGY 5116C Color Photography, PGY 5425C Photography

A committee will be formed during the second semester of enrollment and will meet periodically to supervise the candidate's progress during the entire period of study.

Upon completion of twenty hours of course work and prior to the completion of thirty hours, the candidate must submit his/her work to the faculty committee, which will determine the student's progress and capability for continued enrollment in the MFA program. This review will focus on issues such as growth of the student's work, the consistency of production at the graduate level, and the demonstrated ability to fulfill the expectations of a graduate degree. All of the student's work completed by this time will be assembled and reviewed and the student will be questioned about specific issues related to his/her work. Successful completion of this examination is prerequisite for continuing as a candidate for the degree.

In the last semester of enrollment, the candidate will present a graduate exhibition to be displayed in the Patricia and Phillip Frost Art Museum at FIU or at an appropriate alternative space. Each student's committee will conduct an oral examination with the candidate. This will take place in the exhibition space during the display of the candidate's graduate exhibition. It will focus on the exhibition and the development of the candidate's work. This examination must be completed successfully in order for the candidate to be awarded his/her degree.

Master of Science in Art Education

Degree Program Hours: (36)

Admission Requirements

Applicants for admission into the Master of Science in Art Education program must meet the minimum University's graduate admission criteria. Admission to the masters program will be based on the following criteria:

1. Applicants for admission to the MS-Art Education program must hold or qualify for the Florida teacher certification in art. All applicants must also satisfy the Board of Education admission requirements. A GPA of 3.0 or higher in the last 60 semester hours of upper division undergraduate study.
2. Application materials must include two (2) letters of recommendation, a résumé, a statement of personal philosophy/professional goals consistent with the objectives of the masters program.
3. After submission of application, applicants must schedule a portfolio interview with the Graduate Program Director. The Portfolio should contain fifteen (15) pieces of artwork including at least three (3) drawings.

Transfer of Credit

Students may be allowed to apply up to six semester hours of course work taken at accredited institutions to the masters program requirements with the following stipulations:

- The student received a grade of 3.0 or better on a 4.0 scale.
- The course was relevant, as judged by the Admissions Committee.
- The course is listed on an official transcript received by the Graduate Admissions Office.
- The course will be no older than 6 years at the time of graduation with a master's degree.
- The course meets all University requirements.

Education, including Art, Professional Studies: (6)

Select 6 credits from the following:

EDF 5481	Foundations of Educational Research	3
EDE 6205	Curriculum Design for Childhood Education	3
ESE 6215	Secondary School Teaching Field	3
EDF 6211	Psychological Foundations of Education	3

Graduate Study Abroad in Art/Art Education 3-6

Art/Art Education: (30)

ARE 6140	Curriculum and Instruction in Art	3
ARE 6262	Organization and Coordination of School and Community Art Programs	3
	OR	
ART 5853	Visual Arts Marketing	3
ARE 6746	Seminar in Art Education: Contemporary Issues and Research	3
ART 5XXX	Studio Art	6
ARH 5XXX	Art History	3

Studio Art (Select 4 studio art courses) 12

Master of Arts in Teaching

The Master of Arts in Teaching is offered in Art Education and is for candidates without a certification in teaching. This degree is no less rigorous than the advanced master degree program, but includes courses which provide the necessary background in professional education.

Master of Arts in Teaching Art Education (K-12)

Degree Program Hours: (54)

Admission Requirements

1. BFA or a Bachelor's degree or a strong minor (30 hours with a 3.0 GPA or higher) in Fine Arts and a minimum of 3.0 cumulative GPA or higher for the last 60 hours of upper division coursework.
2. Passing scores on all sections of the General Knowledge Exam (GK) or CLAS or GRE (considered on an individual basis). Note: GRE is NOT required, but can be used in place of GK. However, GK is recommended as it is an exit requirement.
3. In addition the applicant must submit two (2) letters of recommendation, a résumé, a statement of personal philosophy/professional goals consistent with the objectives of the masters program. Letters and any other supporting documents are to be sent to Florida International University, Office of Admissions, P.O. Box 659004, Miami, FL. 33265-9004.
4. After submission of application, applicants must schedule a portfolio interview with the Graduate Program Director. The Portfolio should contain fifteen (15) pieces of artwork including at least three (3) drawings.

Required Courses: (54)

EDF 5443	Measurement and Evaluation in the Classroom	3
EDF 5517	Education in American History	3
EDG 5414	Teaching Environments: Instructional Strategies and Classroom Management	3
EDP 5053	Educational Psychology: Principles and Applications	3
EEX 6051	Educational Needs of Students with Exceptionalities	3
ESE 5344C	Secondary Classroom Management	3
RED 5339	Subject Related Reading	3
TSL 5361C	TESOL for Secondary Teachers	3
ARE 4316	Special Teaching Lab: Art K-5	3
ARE 4341	Special Teaching Lab: Art 6-12	3
ARE 5945	Practicum in Art Education	6
ARE 6140	Curriculum and Instruction in Art	3
ARE 6xxx	Art Education Workshop	9
ARE 6262	Organization and Coordination of Art	3
ARE 6746	Seminar in Art Education	3

Applications to student teaching are due in the office of the Director of Student Teaching by July 1 for Spring semester placement and by March 1 for Fall semester placement. Check with the program leader early in program enrollment to determine Fall placement availability.

Graduation Requirements

1. An overall GPA of at least 3.0
2. Successful demonstration of all of the Florida Educator Accomplished Practices at the Preprofessional level
3. Passing score on all three sections of the Florida Teacher Certification Examination and official evidence provided.

4. Upload all required course and program artifacts into Taskstream account.

Note: If CLAST is passed prior to July 1, 2002, the new General Knowledge subtest may be waived.

Master of Science in Art Education Accelerated Degree Pathway

Students from the following undergraduate majors may apply to the Accelerated Master's in Art Education Degree Pathway: BS in Art Education, BA in Art, BFA in Art, BFA in Digital Arts. If accepted, students will be allowed to take up to 12 credits of graduate courses which will apply toward both their undergraduate and their master's degree program.

The admissions requirements:

- Current enrollment in one of the above mentioned bachelor's degree program
- Completed a minimum of 75 undergraduate credits
- Current GPA of 3.2 or higher
- Portfolio review and interview
- Complete the separate Accelerated Bachelors/Master's degree application, including signed approval by the director, coordinator or designee of the graduate program.

Graduate Certificate in Museum Studies

The Graduate Certificate in Museum Studies is an 18-credit program intended to prepare students for professional employment in museums and historic sites. The program offers graduate-level courses appropriate for those interested in museum careers. It is designed to give a broad overview of museum history as well as a solid grounding in museological theory and practice.

Two core courses and an internship are required. This certificate program is open to both degree- and non-degree seeking students.

Program Requirements: (18 credits)

Required Courses: (6 credits)

ARH 5850	Introduction to Museum Studies: History and Philosophy of Museums	3
ARH 5851	Introduction to Museum Ethics, Policies and Procedures	3

Required Internship: (6 credits)

ARH 5940	Internships	3-6

Electives: (6 credits)

ARH 5797	Museum Education	3
ARH 5837	Exhibition Development	3
ARH 5852	Museum Registration Methods	3
ARH 5855	Curatorial Methods and Practices	3
ART 5079	Grant Writing in the Visual Arts	3
ART 5897	Advanced Art Writing: A Seminar for Artists Curators, and Historians	3

On occasion, the Chair may permit students to include courses from associated departments: History, Environmental Science, Biology, Architecture, and Anthropology.

Graduate Certificate in Portrait and Figurative Art

The Certificate in Portrait and Figurative Art is designed to give interested students the knowledge and skills necessary to have a successful professional career in portrait and figurative art. The Certificate is offered to graduate students in FIU' s Department of Art + Art History.

Only students majoring in a graduate degree program at FIU's Department of Art+ Art History may enroll in the Certificate program. The course titled Classical Drawing (ART 5395C) must be taken during the first two semesters of the program. In addition, a grade of B or better in the first two (2) studio courses is a prerequisite for continuing in the Certificate program. Students must receive a grade of a B- or better in all the required courses in order to graduate.

The Certificate in Portrait and Figurative Art requires 18 credits. (15 credits in Academy studio and 3 credits in approved art history)

Fifteen (15) graduate credits in Academy studio (select from the following):

ART 5395C	Graduate Classical Drawing
ART 5396C	Graduate Portrait Drawing
ART 5588C	Graduate Portrait Painting
ART 5584C	Graduate Figure Painting
ART 5582C	Graduate Landscape Painting

*These graduate courses are repeatable.

Three (3) graduate credits in Art History (select from the following):

ARH 5325	Graduate Art in Renaissance Florence
ARH 5362	Baroque Art
ARH 5421	Enlightenment and Romanticism
ARH 5440	Graduate Nineteenth Century European Art
ARH 5465	Modern Art

*Other art history courses may satisfy the requirement with approval from the Academy Director.

Course Descriptions

Definition of Prefixes

ARE - Art Education; ARH-Art History; ART-Art; GRA-Graphic Arts; PGY-Photography.

ARE 5251 Art for Exceptional Children (3). Development of instructional art skills, techniques, and strategies as related to the exceptional child. Observation and field participation required.

ARE 5457C Introduction to Computer Art (3). Exploration of the color computer, peripherals and selected software as tools for creating expressive art. Individual imaging projects, lesson plans, readings and presentations required. (AR)

ARE 5553 Introduction to Art Therapy (3). An overview of art therapy as a verbal and nonverbal means of communication with special emphasis on psychodynamic fundamentals inherent to the process for the purpose of

diagnosis, treatment, and intervention for people with special needs. (AR)

ARE 5555C Advanced Art Therapy (3). Examination of strategies, techniques and current theoretical approaches in art therapy. Delineation and application of an individual field experience is required. Prerequisite: ARE 5553. (AR)

ARE 5905 Directed Study in Art Education (1-6). Individual investigation and research in one or more areas of art education. Prerequisite: Consent of professor. (F,S,SS)

ARE 5945 Supervised Teaching: Art Education (6). Supervised teaching in a junior or senior high school. Prerequisites: Admission to the Alternate Track Program and completion of prerequisite course work in education and subject matter area. Supervised teaching in an elementary or secondary school. (S)

ARE 6140 Curriculum and Instruction in Art (3). Examination of theoretical bases of curriculum development in art education. Analysis of objectives, content, methods, and materials for art instruction in the elementary, junior, and senior high school. (S)

ARE 6262 Organization and Coordination of School and Community Art (3). Procedures for the organization, coordination and evaluation of school, community, and inservice art programs, with particular attention to the urban multicultural setting. (F)

ARE 6304 Instruction in Early Childhood Art (3). Elective in masters program in Early Childhood Education. Refines skills related to program development, methods of teaching, selection of materials, and review of research, for preschool, kindergarten and primary grades teachers. Lab fees required. (F,S,SS)

ARE 6315 Instruction in Elementary Art (3). Elective in masters program in elementary education. Refines skills related to program development, methods of teaching, selection of art materials, and review of research, for elementary teachers. (AR) Lab fees required.

ARE 6746 Seminar in Art Education: Contemporary Issues and Research (3). Examination of current issues and review of research in art education literature. Delineation and application of an individual research problem. Prerequisite: EDF 5481. (SS)

ARE 6925-29 Workshop in Art Education (3). Production and application of materials and techniques in art education, in a laboratory or field setting. Lab fee required. (SS)

ARE 7938 Doctoral Seminar in Art Education (3). Advanced doctoral study in current theories and research related to art education. Prerequisites: ARE 6746 and EDF 6486. (F,S,SS)

ARH 5315 Early Italian Renaissance Art (3). Examines Italian art and culture of the fifteenth century. Artists considered include Masaccio, Lorenze Ghiberti, Fra Angelico, Piero dell Francesca, Donatello and Sandro Botticelli. Prerequisite: ARH 2050 and ARH 2051 or equivalent.

ARH 5325 Graduate Art in Renaissance Florence (3). For study in Florence. Course examines art of Renaissance from its beginnings in Florence with on-site classes. Prerequisite: Graduate standing.

ARH 5362 Baroque Art (3). Baroque art and architecture of the seventeenth and eighteenth centuries in Europe. Slide lectures and discussions, advanced research required.

ARH 5363 Graduate 18th-Century Art in Europe (3). A study of European academies of art, Rococo, Neoclassicism, and early Romanticism. Artists to be considered include Poussin, Watteau, Hogarth, Reynolds, Barry, Fuseli, and David. Prerequisite: Graduate standing.

ARH 5421 Graduate Enlightenment and Romanticism (3). Examines the art of the European Enlightenment and Romantic movement from 1700 to 1848. Artists to be considered include Watteau, David, Goya, Blake, Ingres, Gericault, Delacroix, and Friedrich. Prerequisite: Graduate standing.

ARH 5440 Graduate Nineteenth Century Art (3). An advanced survey of 19th-century art in its social, political, and historical context. Includes French, English, Spanish artists. Prerequisite: Graduate standing.

ARH 5441 Graduate Realism, Impressionism, and Post-Impressionism (3). Examines the widespread engagement with modern life in European art from 1848 to 1900. Artists to be considered include Courbet, Manet, Monet, Renoir, Seurat, Van Gogh, Gauguin, Cezanne, and Munch. Prerequisite: Graduate standing.

ARH 5442 Advanced Modern Art in Europe, 1880-1915 (3). Examines the widespread engagement with modern life in European art from 1880 to 1915. Art movements considered include Post-Impressionism, Symbolism, Expressionism, Fauvism, Cubism, and Futurism.

ARH 5465 Modern Art (3). Offers a history of modern art from ca 1880 to 1940. It concentrates on the study of European and American Avant-garde visual art movements with emphasis on art and modern society.

ARH 5482 Graduate Contemporary Art (3). Course examines the visual arts in Europe and the U.S. from the 1960's to the present with focus on major art movements, artists, and artwork. Prerequisite: Graduate standing.

ARH 5483 Graduate Post 1989 Art (3). Exploring contemporary art practices: 1989 to present. Prerequisite: ARH 4470 or ARH 5482 or permission of the instructor. Graduate standing.

ARH 5532 Beliefs Made Visible (3). This course investigates art, religion and literature in Asia. We will examine the close connections between literary history and art history, and doctrines and visual images.

ARH 5564 Graduate Contemporary Chinese Art and Theory (3). This course is an overview of Chinese contemporary arts, artists, theories, exhibitions and collections in their social, economic, political, philosophical and global contexts.

ARH 5550 Advanced Arts of China and Japan (3). This course is an introduction to and overview of the arts of China and Japan from antiquity to present covering a wide range of media in their historical, philosophical and religious contexts.

ARH 5561 Literati Vision in Chinese Painting (3). In examination of the social history of Chinese painting, this course looks into masters, masterpieces and art patrons of the last 3000 years.

ARH 5663 Graduate Art of Spain and Her Colonies (3). Course explores art of Spain from 1492 through early 19th century, the encounter between Spain and the Americas after the conquest, and the art of the colonies. Graduate level readings.

ARH 5671 Seminar in 20th Century Latin American Art (3). This course will examine the art of the 20th century in Latin America in a seminar focusing on painting and sculpture from the end of the 19th century to the present.

ARH 5675 Graduate History of Cuban Art (3). A study of visual arts of Cuba in the 20th century, within historical, social, and cultural context. Prerequisite: Graduate standing.

ARH 5677 Caribbean Art: Myth and Reality (3). A survey of the contemporary art of the Caribbean with a brief introduction to its early history and a discussion of its complex social structures from country to country.

ARH 5715 History of Photography (3). A chronological examination of the work of the world's most significant photographers from photographic works and ideas from invention to the 1940s.

ARH 5716 History of Photography Since 1945 (3). An examination of the most significant photographic works, critical concepts, and new trends which have arisen since WWII. Prerequisite: ARH 4710.

ARH 5717 History of Photography of Architecture (3). The history of photography from 1839 to now with strong emphasis on the photography of architecture.

ARH 5725 History of Graphic Design (3). This course aims to examine the significant designs from the history of visual communications with a concentration on the 20th century.

ARH 5776C History of Digital Art (3). This course examines major developments in the practice, methods and theories of digital arts in a historical context with focus on art history and visual culture.

ARH 5785 History of Object Design (3). This course aims to examine the significant objects from the history of craft and design with a concentration on the 20th century.

ARH 5797 Museum Education (3). Course examines educational functions of a museum including interpretive principles and techniques, program design and community outreach.

ARH 5805 Critical Studies in the Visual Arts (3). Introduction to the methods and concerns of recent art history. Discussion of students' work in context of the contemporary art world. Prerequisites: ARH 4450 and ARH 4470 or graduate level equivalents. Required for MFA Students.

ARH 5807 Graduate History of Aesthetic Thought in Europe, 1760-1900 (3). A study of the history of aesthetic thought in Europe from 1760 to 1900. Theorists to be considered include Winckelmann, Lessing, Diderot, Kant, Hegel, Baudelaire, and Nietzsche. Prerequisite: Graduate standing.

ARH 5837 Exhibition Development (3). This course will examine the history, theory, and practical aspects of museum exhibitions, including exhibition planning, design, and interpretation.

ARH 5845 Graduate Spanish Art (3). Explores the Art of Spain from 1492 through the early 20th century. Painting, sculpture and architecture covered in slide lectures.

ARH 5850 Introduction to Museum Studies: History and Philosophy of Museums (3). Introduces the wide range of topics and issues associated with different types of American museums. Museums are examined as cultural, political, and educational institutions. Prerequisites: Graduate Standing or permission of Director of Museum Studies.

ARH 5851 Museum Ethics, Policies and Procedures (3). The legal, ethical status of museums and the obligation to the public regarding their governance, policymaking and financial planning. Includes theoretical and practical discussions with attention to museums. Prerequisites: Graduate Standing or permission of Director of Museum Studies.

ARH 5852 Museum Registration Methods (3). A course in Museum Registration is designed to provide Museum Studies students with competency in all areas of object care, registration and information management. Prerequisites: Graduate Standing or permission of Director of Museum Studies.

ARH 5855 Curatorial Methods and Practices (3). This course examines museum history and theory; exhibit planning, design, and interpretation. Emphasis on contemporary art practices with room for the discussion of other disciplines.

ARH 5872 History of Women Artists (3). Surveys the history of women artists with some discussion of the history of images of women.

ARH 5874 Women in Latin American Art (3). Introduces women in Latin American art from its Pre-Columbian beginnings through the twentieth century. Emphasis will be on painting and sculpture of the twentieth century.

ARH 5881 Advanced Art and Politics (3). The course explores the political role of art in Europe and Latin America from ancient Greece to the present. It also traces how the idea of the "political" changed from the ancient to modern periods. Prerequisite: Graduate standing.

ARH 5896 Seminar in the History and Criticism of Art (3). Examines particular periods or subject areas in the history of art. Course content varies from semester to semester, and with a change in theme, the course may be repeated. Prerequisites: Graduate standing or permission of the instructor.

ARH 5897 Special Topics in Art History (3). Rotating special topics on the graduate level in art history. May be repeated with change of topic. Prerequisites: ARH 4450 and ARH 4470 or graduate level equivalents.

ARH 5907 Directed Studies (1-6). A group of students, with the approval of the art faculty, may select a master teacher of theory, research or criticism in selected areas as film, painting, sculpture, architecture, crafts, art history, multimedia art, etc. Arrangements must be made at least a semester before course is offered. May be repeated.

ARH 5913 Research (1-6). Art history, criticism, and theory in areas not covered by the present program and which the student wishes to study. Prerequisite: Permission of the instructor. May be repeated.

ARH 5940 Internship Experience (3-6). Supervised work experience in approved institution. Prerequisite: Permission of Director of Museum Studies. May be repeated.

ART 5017C 2D Animation (3). This course will introduce graduate students to advanced terminology, concepts, and techniques of creating computer generated 2D animation.

ART 5018C 3D Animation (3). This course will introduce graduate students to advanced terminology, concepts, and techniques of creating computer generated 3D animation.

ART 5055C Business of Art (3). This course provides advanced experiences, skills, and techniques for understanding the business aspects of professional artists and their practices. Prerequisite: Instructor permission.

ART 5079 Grant Writing in the Visual Arts (3). This course will address grant writing in the visual arts. The course will focus on government and foundation proposal writing including effective writing techniques and budget procedures.

ART 5135C Graduate Fibers (3). Graduate level studio course, explores issues of the fiber medium and its context in contemporary art practice.

ART 5156 Small Scale Metal Casting (3). This course offers an introduction to the technical and conceptual understanding needed to cast and fabricate small scale metals to create objects. May be repeated.

ART 5167C New Media and Experimental Animation (3). Advanced studies to the basic practices of new media with emphasis on fundamental strategies for making experiments in animation, installation and sound art. May be repeated.

ART 5282C Design Object and Fabrication (3). This course offers graduate students techniques and methods used in the process of designing and fabricating art objects. May be repeated.

ART 5390C Drawing (3). Advanced drawing. May be repeated. Prerequisites: ART 4315C or permission of the instructor.

ART 5391C Figure Drawing (3). Advanced figure drawing. May be repeated. Prerequisites: ART 4333C, or equivalent, or permission of the instructor.

ART 5395C Graduate Classical Drawing (3). Graduate classical drawing focuses on highly developed perceptual and technical drawing skills in various mediums. May be repeated. Prerequisite: ART 4322C or approved course work.

ART 5396C Graduate Portrait Drawing (3). Graduate portrait drawing focuses on highly developed perceptual and technical drawing skills in various aspects of portraiture. May be repeated. Prerequisites: ART 4335C or approved course work.

ART 5408C Printmaking (3). Advanced printmaking. May be repeated. Prerequisite: Permission of the instructor.

ART 5580C Painting (3). Advanced painting. May be repeated. Prerequisite: Permission of the instructor.

ART 5582C Graduate Landscape Painting (3). Graduate landscape painting focuses on highly developed perceptual and technical painting skills in various aspects of landscape painting. May be repeated. Prerequisite: ART 4514C

ART 5583C Graduate Still Life Painting (3). Graduate still life painting focuses on highly developed perceptual and technical painting skills in various aspects of still life painting. May be repeated. Prerequisite: ART 4516C

ART 5584C Graduate Figure Painting (3). Graduate figure painting focuses on highly developed perceptual and technical painting skills in various aspects of figure study. May be repeated. Prerequisites: ART 4560C or approved course work.

ART 5588C Graduate Portrait Painting (3). Graduate portrait painting focuses on highly developed perceptual and technical painting skills in various aspects of portraiture. May be repeated. Prerequisite: ART 4335C or approved course work.

ART 5655C Digital Art Lab (3). This is an advanced graduate level studio course in the digital arts experimenting with and finding compelling strategies for digital arts production.

ART 5667C Storytelling and Character Development (3). This class explores methods of animation focusing on storytelling and character development at a graduate level. Students will experiment with mixed media, animation, audio and video projects. May be repeated.

ART 5668 3D Digital Sculpture and Experimental Virtual Environments (3). An advanced study of 3D digital sculpture and new media with emphasis on fundamental strategies for making experiments in digital modeling, 3D printing and assemblage of mixed media. May be repeated.

ART 5676C Animation Studio (3). This course is an advanced investigation to the terminology, concepts, and techniques of creating complex computer-generated animation. May be repeated.

ART 5677C Experimental Video Art (3). Graduate level research of digital media with emphasis on fundamental strategies for making video/audio work. May be repeated.

ART 5685C Advanced Time Art (3). Advanced course to refine students' skills in electronic and digital media production. Students are required to produce a multidisciplinary project. Course may be repeated. Prerequisites: ART 3681C or permission of the instructor.

ART 5740C Sculpture (3). Advanced sculpture. May be repeated. Prerequisite: Permission of the instructor.

ART 5746 Methods and Materials of Mold Making and Casting (3). This course offers graduate students techniques and methods used in the process of mold making and casting. May be repeated.

ART 5790C Ceramics (3). The advanced student will explore all aspects of expression in clay and glaze. Students will be expected to be mostly self-directed. Prerequisite: Permission of the instructor. May be repeated.

ART 5792C Figure Sculpture (3). Advanced Figure Sculpture. May be repeated. Prerequisite: Permission of the instructor.

ART 5815C Graduate Seminar: Body and Art (3). Focuses on the relationship between the body, materials

and space as used in art and exhibitions and examines the social conventions that order our understanding of these issues. Prerequisite: Graduate standing.

ART 5844C Installation Art (3). Explores the genre of installation art and site-specific art through history and provides a context for collaboration with the Wolfsonian Museum as both site and subject for art specific installation by students. Prerequisite: Permission of the instructor.

ART 5853 Visual Arts Marketing (3). Students seeking a degree in studio art will be able to appraise and present a portfolio to an appropriate organization. Prerequisite: Graduate Standing.

ART 5855 Graduate FIU in New York (3). A study of New York's art world and contemporary artists in New York City.

ART 5897 Advanced Art Writing: A Seminar for Artists, Curators, and Historians (3). Students write professional venues appropriate to artistic and curatorial practices in a dialog between artists, art historians and curators on contexts influencing art's production and reception. Prerequisites: Current standing as an MFA candidate in the Art & Art History Department or permission of the instructor.

ART 5907C Directed Study (VAR). A course of study in a selected area under the supervision of an appropriate faculty member. Mandatory for MFA students in semester of graduation. Advance approval by faculty and graduate advisory required (3cr). May be repeated.

ART 5910C Research (1-6). Students may study or research an individual art project with an art faculty member. Complexity and amount of work will determine the number of credit hours granted. May be repeated.

ART 5930C Special Topics in Studio Art (3). Rotating special topics in Studio Arts. May be repeated with change of content.

ART 5931C New Media Seminar (3). This seminar course examines major developments in the practice, methods and theories of new media in a contemporary context with focus on art history and visual culture. May be repeated.

ART 5938C Studio Art Pedagogy (1). Instruction in the principles and methods of teaching in the area of visual arts; specifically the application of these principles to the studio situation. Required for MFA students. Prerequisite: Graduate standing.

ART 5939C Graduate Art Seminar I (3). Students will locate and discuss their own work within the context of the contemporary art world. Also, issues and practical concerns for the professional artist will be addressed, such as dealing with guidelines, grant writing and business procedures. Required for MFA students. Prerequisite: Graduate standing.

ART 5940 Advanced Art Internship Experience (0), Experience in art practice learned through work with licensed professionals. Prerequisite: Limited to MFA Students in the department of Art and Art History.

ART 6939 Graduate Art Seminar II (3). Discussion of students work within the context of the contemporary art world. Issues and practical concerns for the professional artist will be addressed, such as dealing with galleries, grant writing and business procedures. Mandatory for MFA students. Prerequisites: Graduate standing and ART 5939C.

ART 6971 Graduate Prospectus and Exhibition Preparation (3). Offers students the opportunity to complete the research and preparation of written components required for graduation, including thesis and artist statement. Prerequisites: Completion of graduate program courses other than ART 5907C.

GRA 5535 Typography (3). This is an advanced course where graduate students will master typographic terms, classical and contemporary fonts and technologies. May be repeated.

GRA 5930 Design Seminar I: Methodologies in Design Practice (3). This seminar course examines major developments in the practice, methods and theories design in contemporary context with focus on art history and visual culture.

GRA 5931 Design Seminar II: Experience Design (3). This seminar course examines major developments in the practice, methods and theories of design in a contemporary context with focus on interactivity, technology and culture.

GRA 5932L Design Studio (3). This is an advanced and graduate level research lab for graphic design and object design students. May be repeated.

GRA 5941 Graduate Internship (3). Students will complete an internship aimed at experiential learning in the context of an art or design related profession. May be repeated.

PGY 5425C Photography (3). Advanced photography. May be repeated. Prerequisites: PGY 4155C, or equivalent, or permission of the instructor. For graduate students.

PGY 5530C Color Photography (3). Advanced color photography. Course may be repeated. Prerequisites: PGY 4154C or permission of the instructor. For graduate students.

PGY 5649C Advanced Digital Photography II (3). Advanced documentary digital photography, requiring highly evolved technical skill and aesthetic direction. May be repeated. For graduate students who have completed prerequisites. Prerequisites: PGY 4823C or permission of the instructor.

Communication

Aileen Izquierdo, *Associate Teaching Professor and Chair*
Rokeshia Renné Ashley, *Assistant Professor*
Margo Berman, *Professor*
Grizelle De Los Reyes, *Associate Teaching Professor*
Lillian Lodge Kopenhaver, *Emeritus Professor*
Yu Liu, *Associate Professor*
Elizabeth Marsh, *Assistant Professor*
Hugo Ottolenghi, *Assistant Teaching Professor*
David Park, *Associate Professor*
Raquel Perez, *Associate Teaching Professor*
Mihaela Plugarasu, *Assistant Teaching Professor*
Paula Powell, *Assistant Teaching Professor*
Heather Radi-Bermudez, *Assistant Teaching Professor and Director, CARTA Office of Strategic Communications*
Sigal Segev, *Associate Professor*
Maria Elena Villar, *Professor*
Weirui Wang, *Associate Professor*

Master of Science in Mass Communication

The Department of Communication in the School of Communication and Journalism offers professional graduate education leading to the M.S. degree in Mass Communication.

There are four programs that lead to the M.S. Degree in Mass Communication:

- Global Strategic Communications on-campus program
- Global Strategic Communications online program
- Global Strategic Communications/Miami Ad School program
- Spanish Language Journalism program

The Global Strategic Communications online and on-campus programs allow for specializations in corporate communication management, conflict resolution and consensus building, and digital media management. The orientation of the graduate program is primarily professional, designed to enhance graduates' abilities to work in strategic communication professions. However, students wishing to pursue further graduate study may select courses that will prepare them for academic research.

Admission Requirements

To be eligible for admission to the graduate program, applicants must meet the following requirements:

1. All applicants must have a four-year bachelor's degree from an accredited college or university.
2. All candidates must show promise of success in graduate studies. Applicants must meet the following criteria, in addition to any program-specific requirements:
   A. Meet minimum GPA: Candidates must have a minimum grade point average (GPA) of 3.0 earned during the last 60 hours of upper-level work.
   B. Students applying to the Global Strategic Communications program must submit an essay. Topic should reflect professional goals consistent with the objectives of the master's program.
   C. Students must submit a professional and current resume.
   D. Students must submit 2 letters of recommendation from individuals suited to evaluate their potential as a graduate student.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required. A minimum TOEFL score of 550 for the Global Strategic Communications Program is acceptable. Candidates who have passed the TOEFL more than two years before they apply for admission to the program have to repeat the test with the required score.

The following is standardized exam requirement information for the programs leading to an M.S. in Mass Communications:

a) Students applying to the Global Strategic Communications program are required to take the GRE, GMAT, LSAT or alternative standardized test utilized for graduate school admission. Those who can demonstrate a record or professional accomplishment, hold a master's degree from an accredited college or university and/or demonstrate exceptional academic credentials may petition for a waiver of the standardized exam requirement. There is no minimum score requirement for those who take the standardized exam for the Global Strategic Communications program.
b) Students applying to the Spanish Language Program are required to take the EXADEP or GRE with no minimum required score.
c) Students applying to the Global Strategic Communications – Creative Track program will not be required to take the GRE, but will be subject to a rigorous portfolio review of their creative work for admission.

Application Procedures

A student applying for admission to the graduate program must:

1. Complete online graduate admissions application available at **https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html**.
   A. Have two official copies of transcripts from all colleges or universities attended sent to the Admissions Office. (Copies submitted by applicants will be rejected.)
   B. Submit appropriate test scores and documents to the Admissions Office.

Admission Deadline

Students should adhere to the Florida International University graduate admissions deadlines for Fall, Spring and Summer terms. These deadlines are listed in the Graduate Catalog in the Graduate Admission section.

Note that domestic students and international students have different deadlines. Additionally, application deadlines are different for the Global Strategic

Communications online program. The current deadlines for the on-campus programs are as follows:

Domestic Students
Fall June 1st
Spring October 1st
Summer March 1st

International Students
Fall February 1st
Spring September 1st
Summer February 1st

If you have any questions regarding these deadlines, please call the Graduate Admissions office at (305) 348-7000.

Degree Requirements
Plan of Study/Commencement of Program

Upon admission to the graduate program, each student will be advised on their plan of study by a faculty advisor. In most cases, this will be the director of the appropriate graduate program. The advisor will be responsible for developing the student's plan of study, requesting applicable transfer of credit where appropriate, monitoring the student's academic progress, and ensuring the fulfillment of the requirements for the master's degree. This will also include a timetable for completion of the work. Any changes in the plan must be approved by the faculty advisor and the appropriate chairperson.

Competency in Statistics

Competence in the fundamentals of statistics is required of all graduate students. In order to register for MMC 5440 (Applied Research Methods in Mass Media) students must demonstrate a knowledge of statistics in one of three ways: by having taken a course in statistics within the last three years, passing an examination in the subject, or taking a special seminar, offered simultaneously with the commencement of the graduate research course.

Professional Experience

Professional experience in a field directly related to the specialization is an advantage. Applicants without such professional experience may be required to complete up to 9 credits of additional undergraduate course work and/or to complete an internship with a professional organization. After an interview with the applicant, the student's faculty advisor will determine the amount of undergraduate work and the undergraduate courses to be completed, if necessary.

Transfer Credit

Students may petition the appropriate advisor to transfer up to six hours of graduate credit toward the degree. To be approved for transfer, the courses must have been previously taken at an accredited college or university; the student's advisor must judge the courses relevant to the student's plan of study; the student must not have used the credits toward another degree; the student must have earned a 'B' or higher in the courses, and meet the University requirements. No transfer courses will substitute for skills courses in any area of specialization in the master's program. All transfer credit must have been completed within the six-year period preceding the date the degree is granted.

Time Limit

All work applicable to the degree, including transfer credit, must be completed within six years of first enrollment in the master's program.

Grades

Students must maintain a minimum GPA of 3.0 in all courses required for the degree. No more than two 'C' grades will be allowed.

Professional Project, Thesis

Students complete a professional project in their areas of specialization. Work on the project generally will be completed during the final semester. Students must receive a 'B' or higher on the project for it to be accepted. Students may also opt to do a thesis; GPA requirements are the same.

Required Courses

To earn the M.S. in Mass Communication, students must meet the following requirements:

1. Students must take at least 30 hours of acceptable graduate credit. Of those hours, all courses taken toward graduation must be at the graduate level.
2. At least 27 hours must be taken in the School of Communication and Journalism, unless otherwise approved by the department chair.

Global Strategic Communications (30 credits)

This program is designed to give students a general background in strategic communications and to help them prepare for advancement in advertising, public relations, and integrated communications careers while providing knowledge and understanding for addressing global, national, and local audiences and communication issues. Most students complete the program in 18 to 24 months. ***In addition, this GSC program can be completed fully online in 12 months if taken full time.***

Core Curriculum: (15 credits)

All students must take the following core courses:

PUR 6005	Strategic Communication Theories	3
COM 6318	Applied Research Methods	3
PUR 6607	Global Strategic Communication Management	3
PUR 6206	Ethics and Social Responsibility	3
PUR 6956	Professional Project *(prereq: completion of 24 credit hours)*	3

GSC Required Electives: (15 credits)

Choose five of the following:

ADV 6805C	Advertising and Public Relations Creative Strategy	3
PUR 6625	Digital Media Management	3
PUR 6117	Storytelling and Digital Content Creation	3
PUR 6508	Social Media Metrics and Evaluation	3
MMC 5268	Communication in a Digital Age	3
COM 6085	Communication in the Digital Age	3
PUR 6115	Applied Media Communication Skills	3
MMC 5932	Special Topics Seminar	3
COM 6435	Global Communications	3
PUR XXXX	Multimedia Production and Design	3
ADV 6305	Media Planning	3

COM 6915	Independent Study (with permission)	3
COM 6945	Graduate Internship (with permission)	3
MMC 6951C	Professional Project II	1
PUR 5406	Multi-Cultural Communications	3
PUR 6610	Global Reputation Management	3
PUR 6690	Strategic Facilitation	3
PUR 6806	Global Account Planning	3
PUR 6935	Advanced Communication Seminar (Crisis and Issues Management)	3
PUR 5476	Communication for Change Management	3

Students may earn a graduate certificate in Conflict Resolution and Consensus Building from the FIU Center for Labor Research and Studies along with the M.S. degree in Global Strategic Communication. To complete this certificate students must take the three LBS electives, and PUR 5690 and PUR 5476, as part of their 30 credits toward the master's degree.

Global Strategic Communications – Creative Track (39 credits)

The Global Strategic Communications creative program is a rigorous, self-supporting continuing education program that is limited to a select number of qualified students who have shown above average creative potential and wish to combine a theoretical knowledge of communications with a more in-depth exposure to creative concepts. A portfolio review is required for admission.

The Global Strategic Communications - Creative Track incorporates these unique features:

- Unique combination of academic and creative courses
- Interaction with top creative professionals
- Access to Miami Ad School guest speakers, courses and facilities
- Five semesters of courses, offered on a lock-step basis
- The option of a semester away and internships at top advertising agencies

Core Curriculum: (21 credits)

Being a lockstep program, all students must take the following core courses: 21 credits

MMC 6402	Theories of Mass Communication	3
MMC 5440	Applied Research Methods in the Mass Media	3
MMC 6950	Professional Project	3
ADV 6805C	Advertising and Public Relations Creative Strategy	3
MMC 6213	Ethics and Social Responsibility	3
MMC 5306	Global Communications	3
VIC 5205	Trends in Graphics & Design	3

In addition, all students must take the following skills courses at partner school, Miami Ad School: 18 credits

PUR 6935	Advanced Communications Seminar	3
ADV 6503	Seminar in Advanced Creativity	15

Mass Communication: Global Strategic Communications 4+1 Degree Pathway

With their advisor's approval, students from undergraduate majors in a variety of fields may apply to the Mass Comm Global Strategic Communications 4 + 1 Degree Pathway. If accepted, students will be allowed to take up to 12 credits of graduate courses which will apply toward both their undergraduate and their master's degree program.

The admissions requirements are:

- Current enrollment in an approved bachelor's degree program at FIU
- Completed a minimum of 75 undergraduate credits
- Current GPA of 3.2 or higher
- Complete the separate 4 + 1 application, including signed approval by the director, coordinator or designee of the graduate program.

Certificate Programs

Science Communication Certificate

The Graduate Certificate in Science Communication is intended for graduate students, researchers, educators and professionals in Communication or STEM disciplines. The program will be offered to both degree-seeking and non-degree-seeking students.

The Graduate Certificate in Science Communication will require a total of 15 credits, including one foundational required course (6 credits) and three elective courses (9 credits).

Required Courses

Foundational Course

MMC 5409	Science, Health, Environment and Risk Communication	3
PUR 6117	Strategic Storytelling and Digital Content Creation	3

Elective Courses

Electives in Communication select at least one:

VIC 6005	Web Design and Data Visualization	3
COM 5606	Environmental Communication	3
COM 6318	Applied Research Methods	3
MMC 5932	Special Topics *if approved by advisor*	3
PUR 6116	Multimedia Skills for Strategic Communicators	3
PUR 6508	Social Media Metrics and Evaluation	3

Electives in Science select at least one:

BSC 6936	Writing, publishing and communicating peer reviewed papers in biological sciences	
SOP 5058	Proseminar in Social Psychology	
PHC 6401	Health Behavior and Public Health	
	Or	

Any course from the STEM disciplines with approval from student advisor and certificate coordinator.

Other Requirements This certificate is intended for students, researchers, educators and professionals in Communication or STEM disciplines. Other students will need to write an essay and be interviewed by the certificate director before enrolling.

Course Descriptions

Definition of Prefixes

ADV-Advertising; COM-Communications; DIG-Digital Media; JOU-Journalism; MMC-Mass Media Communication; PUR-Public Relations; RTV-Radio: Television; VIC-Visual Communication.

All courses required for the degree will be offered at least once during the term of the student's enrollment.

ADV 6305 Media Planning (3). This course is intended to be a survey of the media planning discipline of advertising.

ADV 6355 Advertising and Society (3). The relationship between advertising, economic, political, moral, and ethical issues.

ADV 6503 Seminar in Advanced Creativity (3). Theoretical and practical application of variable topics including creative problem solving, design, web advertising, pop culture, and IMC tools. Progressive level of difficulty. Prerequisite: Permission of the instructor.

ADV 6805C Advertising and Public Relations Creative Strategy (3). Focuses on the conceptualization of breakthrough strategies and their application to all integrated communication tools. (Offered at least once a year).

COM 5606 Environmental Communication (3). This graduate level course is designed to bring theoretical principles and professional skills associated with mass communication together with environmental issues and themes. Prerequisites: Completion of the six-credit project or internship requirement (EVR 5907) and permission of the instructor or department.

COM 6085 Communication in the Digital Age (3). This course is designed to develop and enhance students' understanding of the foundations for digital communication, including an overview of the historical development of digital communication.

COM 6318 Applied Research Methods (3). An advanced course in the acquisition and use of secondary data, including media data, as well as the design, execution and utilization of research studies.

COM 6435 Global Communication (3). This course explores global markets and intercultural communications while providing advanced study, evaluation and application of cultural context, theories, stakeholders, and trends.

COM 6915 Independent Studies (3). Specialized intensive study in an area of special interest to the student with a focus on directed, independent research. Prerequisite: Requires prior approval by instructor, graduate standing, and full admittance in the program.

COM 6945 Graduate Internship (3). On-the-job learning in activity at selected and approved organizations. May include advertising and PR agencies, as well as private, governmental or non-profit organizations. Prerequisite: Requires prior approval by instructor.

DIG 5167 Social Media Metrics and Evaluation (3). This course introduces strategic aspects of social media analytics by highlighting metrics for assessing effectiveness of social media strategies for global advertising, public relations and marketing.

DIG 5438 Strategic Storytelling and Digital Content Creation (3). This course offers a view of storytelling paradigms and provides the opportunity to apply digital storytelling for strategic purposes using interactive multimedia tools.

DIG 5569 Digital Media Management (3). This course examines various methods and perspectives of managing digital media platforms and content in a strategic communication setting.

MMC 5207 Ethical and Legal Foundations of the Student Press (3). Examines ethical and legal foundations underlying the operation of the student press on American campuses, stressing both rights and responsibilities and how to organize publications to protect both. (Offered at least once a year).

MMC 5268 Communication in the Digital Age (3). This course is designed to develop and enhance students' understanding of the foundations for digital communication, including an overview of the historical development of digital communication.

MMC 5306 Global Communications (3). This course explores global markets and intercultural communications while providing advanced study, evaluation and application of cultural context, theories, stakeholders, and trends in media, advertising, and public relations. Analysis of ethical, legal, political, and social communications issues around the globe.

MMC 5409 Science, Health Environment and Risk Communication (3). This graduate course is an advanced communication course designed to introduce students to theory, research and contemporary issues in communicating science, health, environment and risk.

MMC 5440 Applied Research Methods in the Mass Media (3). An advanced course in the acquisition and use of secondary data, including media data, as well as the design, execution and utilization of research studies. Students will conduct an original proprietary study. (Offered at least once a year).

MMC 5655 Mass Communication and the Environment (3). The course brings theoretical principles and professional skills associated with media communication together with environmental issues. Prerequisites: Graduate standing or permission of the instructor.

MMC 5932 Special Topics Seminar (3). A variable topic seminar dealing with issues of interest to the community. Examples are rights of high school journalists, cable TV, the use of mini-computers in creative communication. Prerequisite: Permission of the instructor. (Offered at least once a year).

MMC 6108 Theories of Mass Communication and Writing (3). The course examines writing theories and processes and explores media responsibility to society including communication principles and techniques found in contemporary communication theories.

MMC 6135 Multimedia Production and Design (3). The course offers introduction in the theory and practice of multimedia production including digital photography, videography, non-linear video editing and sound design.

MMC 6213 Ethics and Social Responsibility (3). This course familiarizes students with professional ethics and standards in advertising and public relations and examines the regulatory environment in which strategic communication takes place. Prerequisite: Permission of the instructor. (Offered at least once a year).

MMC 6257 Media Management and Entrepreneurship (3). Introduction to the basic functions of media management with an emphasis on television and new media in a global marketplace; provides an understanding of business models and decision-making processes.

MMC 6402 Theories of Mass Communication (3). Examines theories and processes of mass communication as well as media responsibility to society and the social and ethical responsibility of communicators. (Offered at least once a year). Prerequisite: Permission of the instructor.

MMC 6412 Applied Media Communication Skills (3). This advanced skills course covers a broad range of written, interpersonal, social media, presentation, and team communication skills for the advertising, marketing and public relations professions.

MMC 6416 Media Planning (3). This course is intended to be a survey of the media planning discipline of advertising. Prerequisite: Permission of the instructor.

MMC 6900 Independent Study (3). Specialized intensive study in an area of special interest to the student with a focus on directed, independent research. Prerequisites: Requires prior approval by instructor, graduate standing, and full admittance in the program.

MMC 6940 Graduate Internship in Strategic Communication (1-3). On-the-job learning in activity at selected and approved organizations. May include advertising and PR agencies, as well as private, governmental or non-profit organizations. Prerequisite: Graduate standing.

MMC 6950 Mass Communication Professional Project (1-3). Designed to demonstrate student's excellence in an area of communication studies. Prerequisites: Permission of the instructor, 24 credit hours to align with the GSC track requirements; this would not apply to Spanish Language Journalism Program.

MMC 6951C Professional Project II (1). Demonstrates the student's excellence in an area of communication study. Must be taken if student doesn't complete MMC 6950 in one semester. Prerequisite: MMC 6950.

MMC 6970 Mass Communication Master's Thesis (1-3). This course is designed to demonstrate the student's excellence in an area of communication study. This course provides guidelines and direction to graduate students completing their Master's Thesis. Prerequisites: Completion of 27 credit hours, MMC 5440.

PUR 5406 Multi-Cultural Communications (3). Explores the multicultural dimensions of communications with diverse audiences within the United States.

PUR 5476 Communication for Change Management (3). This course is designed to provide students with the communication strategies necessary to effectively navigate organizational change through case studies, role plays and analytical essays.

PUR 6005 Strategic Communication Theories (3). Examines theories and processes of strategic communication and media responsibility to society and the social and ethical responsibility of communicators.

PUR 6115 Applied Media Skills (3). This advanced skills course covers a broad range of written, interpersonal, social media, presentation, and team communication skills for the advertising, marketing, and public relations professions.

PUR 6116 Multimedia Skills for Strategic Communicators (3). The course offers introduction in the theory and practice of multimedia production.

PUR 6117 Strategic Storytelling and Digital Content Creation (3). This course offers a view of storytelling paradigms and provides the opportunity to apply digital storytelling for strategic purposes.

PUR 6206 Ethics and Social Responsibility (3). This course familiarizes students with professional ethics and standards in advertising and public relations and examines the regulatory environment.

PUR 6477 Strategic Facilitation (3). This course focuses on the theories and techniques to conduct strategic facilitation. Students learn facilitation skills, and enhanced communication skills to successfully facilitate communication.

PUR 6508 Social Media Metrics and Evaluation (3). This course introduces strategic aspects of social media analytics by highlighting metrics for assessing effectiveness of social media strategies.

PUR 6607 Global Strategic Communication Management (3). This course acquaints students with the professions and practice of global advertising and public relations in a multicultural world. Prerequisite: PUR 6806.

PUR 6610 Global Reputation Management (3). This course introduces students to the role and value of strategic communication in developing and sustaining an organization's global reputation.

PUR 6625 Digital Media Management (3). This course examines various methods and perspectives of managing digital media platforms and content in a strategic communication setting.

PUR 6806 Global Account Planning (3). This course introduces students to contemporary account planning and global strategic communication techniques. Prerequisite: Permission of the instructor. (Offered at least once a year).

PUR 6935 Advanced Communications Seminar (3). The class will consist of a series of readings, discussions and presentations to immerse students in contemporary issues in Advertising and Public Relations. Prerequisite: Permission of the instructor. (Offered at least once a year).

PUR 6956 Professional Project (3). Designed to demonstrate student's competence in the pillars of global strategic communications. Prerequisite: Permission of the instructor, 24 credit hours to align with the GSC track requirements

VIC 5205 Trends in Graphics and Design (3). Design principles and how they relate to trends in student and professional media, including newspapers, magazines and yearbooks. Deals with graphics, packaging, typography and modern design. Prerequisite: Permission of the instructor. (Offered at least once a year). (Supplies fee assessed).

VIC 6005 Web Design and Data Visualization (3). Students will learn how to design, build and publish a news website and a page on social media platforms. This

course will also develop the student's skills on data journalism and data visualization.

Interior Architecture

Newton D'Souza, *Associate Professor and Chair*
Katie Rothfield, *Teaching Professor and Assistant Dean of Students, CARTA*
Philip Abbott, *Assistant Teaching Professor*
Sam Moshaver, *Assistant Professor*
Darci Pappano, *Associate Teaching Professor*
Esperanza Muino, *Visiting Assistant Teaching Professor*
Julio Alvarez, *Adjunct Professor*
Harvey Bernstein, *Adjunct Professor*
Lisette Boosooboy, *Adjunct Professor*
Elieser Duran, *Adjunct Professor*
Tatiana Guimaraes, *Adjunct Professor*
Jissette Jimenez, *Adjunct Professor*
Marie Mihalik, *Adjunct Professor*
Nadine Poliard, *Adjunct Professor*
Tania Torrado, *Adjunct Professor*

Florida International University's Department of Interior Architecture is situated within two very compelling conditions: the diverse international community within South Florida and the rich interdisciplinary environment in the College of Communication, Architecture + The Arts. This unique context inspires our interpretation of the interior design profession as an occupation that exercises many types of knowledge and operates within complex social, cultural, technological, and artistic settings.

FIU's Department of Interior Architecture provides students with a value added education that consists of small student-to-faculty ratios, studio facilities where students have their own workspace, study abroad options, and digital and fabrication labs offering advanced technology. The Department of Interior Architecture is an ideal setting where students are actively involved in learning and exploring the current and future roles of the interior design profession within a global society. More particularly, this context challenges our students to critically investigate the diverse roles of interior design and interior architecture, and inspires us to explore new avenues of thought and attitudes toward why and how we make human environments.

We focus on preparing well-rounded design professionals. Our interdisciplinary foundation coursework and our unique three years of professional graduate curriculum prepare our students to meet the profession head-on. Our graduates work in many different settings in the design of residential, commercial, and institutional projects. This exciting program has a strong emphasis on interior architecture and incorporates the recommendations and standards of national and local professional societies into the development of its curriculum.

The Master of Interior Architecture provides professional degree tracks that are intended for individuals with bachelor degrees from a variety of fields. This course of study has three tracks: a five-year track for students who begin as undergraduates, a two-year track for students with bachelor degrees in architecture or landscape architecture, and a three-year track for students with bachelor degrees in other disciplines.

The Accelerated Master of Interior Architecture (MIA) program provides a seamless course of study leading from undergraduate freshman year to the conferral of the Professional Master of Interior Architecture degree. The five-year Accelerated MIA track is comprised of 157 credit hours of integrated pre-graduate and graduate coursework. The degree consists of 73 credit hours of pre-graduate coursework taken over two years followed by 84 credits hours of graduate coursework. At the conclusion of 73 credit hours of pre-graduate study, students move directly to graduate study. A transition from undergraduate to graduate standing occurs during the fourth year after completion of 120 credits. Students must be in good standing with a 3.0 or higher GPA in graduate level coursework (5000 level or higher). A Bachelor degree is not awarded at any point in the program.

The department maintains close ties with interior design professionals. Our professional advisory board periodically reviews the curriculum to maintain program relevance.

Students applying to the department should plan for the financial aspects of a design education. This includes the costs of computers, software, travel and field trips, tools and equipment, and modeling supplies. All students must have continuing access to a laptop computer through purchase, lease or other arrangements.

Ownership of Student Work

Student work, submitted to the department in satisfaction of course or degree requirements, becomes the physical property of the department. However, students retain all rights to the intellectual property of such work. This work may include papers, drawings, models, and other materials. The department assumes no responsibility for safeguarding such materials. At its discretion, the department may retain, return, or discard such materials. The department will not normally discard the materials of currently enrolled students without giving the student an opportunity to reclaim them.

Admissions Requirements for all Graduate Degrees in the Department of Interior Architecture

All applicants must meet University graduate admissions requirements. Applicants to the Department of Interior Architecture degree programs must also submit a portfolio of creative work for department review. The portfolio review examines evidence of creative ability, academic success, and professional achievement. It is an important component of the admissions process. Please contact the Department of Interior Architecture for specific portfolio requirements. The deadline for portfolio submission is January 15th of each year. Portfolios submitted after this date will be considered if studio space is available.

Students who have successfully completed the portfolio review process must also meet the minimum requirements of an undergraduate degree from an accredited college or university with undergraduate grade point average (GPA) of 3.0 on a 4.0 scale, or hold a graduate degree from an accredited institution to be fully admitted in the graduate program. When the academic record is less than 3.0 GPA, the applicant must submit Graduate Record Examination (GRE) scores.

Thesis Requirement

Interior Architecture graduate students in master degree programs are required to undertake a master's project or a master's thesis as part of their course of study at the Department of Interior Architecture.

Master of Interior Architecture

Professional Degree Tracks

The Graduate Program in Interior Architecture prepares expert interior designers with strong professional and content background, capable of engaging in evidence-based design and able to conduct and apply research. The program is a comprehensive, interdisciplinary degree program designed to engage students in advanced study regarding public interiors. The unique curriculum provides students with firsthand experience of a wide range of interior design issues in specialized areas of study such as hospitality design, healthcare facility design, and workplace design.

The Master of Interior Architecture provides professional degree tracks that are intended for individuals with bachelor degrees from other fields. This course of study has two tracks: a two-year track for students with bachelor degrees in architecture or landscape architecture, and a three-year track for students with bachelors degrees in other disciplines. Both of these tracks begin Summer Semester.

THREE YEAR TRACK – 90 Credits

A professional degree for students with a Bachelor of Arts or a Bachelor of Science, or equivalent, from an accredited institution.

Summer Leveling
Leveling courses may be required for students without a design background. These are in addition to degree requirements.

IND 5319	Visual Notation for Interior Design	3
IND 5475	Computer Applications in Design	3
IND 5285	Design Foundations	3

Fall Semester

IND 6255	Graduate Design 1	6
IND 5477	Computer Applications in Design II	3
IND 5486	Materials for Interior Design	3
IND 6616C	Interior Architecture Theory I	3

Spring Semester

IND 6256	Graduate Design 2	6
IND 5438	Lighting Design	3
IND 5645	Structures 1	1
IND 5645L	Structures 1 Lab	2
IND 5325	Color Theory and Application for the Built Environment	3

Summer Semester

IND 5427	Construction Documents in Interior Architecture	3
IND 5629	Computer Applications in Design III	3
IND 5138	History of Modern Interior Design (online)	3

Fall Semester

IND 6257C	Graduate Design 3	6
IND 5485	Advanced Construction Documents in Interior Architecture	1
IND 5454L	Advanced Construction Documents in Interior Architecture Lab	2
IND 5615	Building Systems for Interior Designers	3

Spring Semester

IND 6258C	Graduate Design 4	6
IND 5937	Special Topics	3
	Directed Elective	3

Fall Semester

IND 6259C	Graduate Design 5	6
IND 5626	Project Programming	3
IND 6639	Research Methods	3

Spring Semester

IND 6970	Master's Project	6
IND 5628	Sustainable Practices in Interior Architecture	3
Directed Elective (Internship)		3
IND 5508	Professional Office Practice	3

TWO YEAR TRACK – 63 Credits

A professional degree for students with a Bachelor of Arts or a Bachelor of Science, or equivalent, in Architecture or Landscape Architecture from an accredited institution.

Fall Semester

IND 6257C	Graduate Design 3	6
IND 5485	Advanced Construction Documents in Interior Architecture	1
IND 5454L	Advanced Construction Documents in Interior Architecture Lab	2
IND 5615	Building Systems	3
IND 6616C	Interior Architecture Theory I	3

Spring Semester

IND 6258C	Graduate Design 4	6
IND 5937	Special Topics	3
IND 5325	Color Theory and Application for the Built Environment	3
IND 5438	Lighting Design	3

Summer Semester

IND 5138	History of Modern Interiors (online)	3
Directed Elective		3
IND 5629	Computer Applications in Design III	3

Fall Semester

IND 6259C	Graduate Design 5	6
IND 5626	Project Programming	3
IND 6639	Research Methods	3

Spring Semester

IND 6970	Master's Project	6
IND 5508	Professional Office Practice	3
Directed Elective		3

Master of Arts in Interior Architecture

Post-Professional Degree

Individuals with an undergraduate degree in Interior Design or Interior Architecture from an accredited professional program are eligible for admission to the program provided University requirements are met. This 36-credit hour degree prepares students who wish to conduct research, teach and undertake advanced studies in Interior Design. One year of full-time study in residency is normally required. However, a part-time study option is available subject to the review and approval of the Program. Satisfactory completion of 36 credits in the following course of study is required.

Health Care Design Track

This track prepares students with a specialized healthcare

design expertise. Students will interact with a variety of stakeholders to co-create spatial contexts in partnership with related academic disciplines (nursing, medicine, public health, occupational therapy, computer science and bio-medical engineering), health care design professionals, and healthcare facilities (hospitals and nursing homes). The program is designed to provide students with research expertise, problem-solving skills, health care design thinking and prototyping skills while engaging with a multicultural urban community.

First Year (Fall Semester: CORE courses)

IND 5939	Design Thinking and Creative Process	3
IND 5637	Design Research Methods	3
IND 5616	Env. & Beh Theory	3

First Year (Spring Semester)

IND 5602	Health Care Design I	6
IND 5612	Environmental Sys. for Healthcare Environments	3
IND 5617	Health Care Theory	3
Elective course 3		

Second Year (Fall Semester)

IND 5603	Healthcare Design Studio II	6
	Directed Elective	3
	Directed Elective	3

Certificate in Cruise Ship and Super Yacht Design

The Interior Architecture Department has assembled a team of professionals and educators to offer a unique curriculum that will prepare designers for the specific issues associated with designing cruise ship and yacht interiors. The certificate program is offered to students who are enrolled in the FIU's Master of Interior Architecture program and involves international workshops with designers from overseas venues. Enrollment in the certificate program offers FIU students the opportunity to form specialized knowledge in this area of design prior to graduation with their Master of Interior Architecture degree.

Entrance into the program is limited to students entering their fourth year of the MIA curriculum who have earned a 3.0 or better grade point average in the graduate program. All applicants should access the appropriate application through the OneStop website, at: https://admissions.fiu.edu/how-to-apply/graduate-applicant/applications/index.html. The application is in paper form and must be completed by the student. At the conclusion of the certificate program, students will be issued a Certificate of Cruise Ship and Super Yacht Design from Florida International University. This certificate program is open to degree-seeking students only.

Program Requirements

The certificate program consists of 15 credit hours of courses currently embedded within the existing Master of Interior Design curriculum: two specialized sixteen-week studio courses; plus an industry specific internship course coordinated through FIU's interior design program.

IND 5418	Design at Sea	3
IND 6257C	Graduate Design 3	6
IND 6258C	Graduate Design 4	6

Course Descriptions

Definition of Prefixes

IND-Interior Design
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

IND 5029 Art in Public Interiors (3). Examination of the creative place making and the integration of artwork into the interior architecture of public places.

IND 5138 History of Modern Interiors (3). An analysis of the history of architectural interiors, furniture and decorative arts from the Neo-Classical period to the present time.

IND 5164 History of 21st Century Furniture Design (3). Students will research and analyze the social, political, technical economic and theoretical forces that contribute to new movements in late 20th century and early 21st century furniture design.

IND 5205 Fundamentals of Marine Vessel Design (3). This course explores the fundamentals of design for commercial Marine passenger Vessels: Cruise Ships, ferries, Yachts, and Superyachts. Prerequisite: IND 6256. Corequisite: IND 6257

IND 5235 Formative Studio 1 (6). Introduction to concept development, spatial expression, and representational techniques in architecture.

IND 5239 Topics in Interior Architecture (3). Coursework on a specialized topic relating to interior architecture.

IND 5285 Design Foundations (3). The course is a rigorous introduction to design fundamentals. It builds a design language through lectures, practical exercises, exploring techniques, materials, skills, making and critical thinking. Prerequisite: Program approval.

IND 5319 Visual Notation for Interior Design (3). Course will develop drawing skills in multiple media, actively engaging in projects of drawing as a medium of investigation, documentation, memory, observation and presentation for interior design. Prerequisite: Program approval.

IND 5325 Color Theory and Application for the Built Environment (3). Use of color in the built environment including principal color systems, methods of color harmony, effects of visual phenomena, and various psychological, cultural and historical implications.

IND 5418 Design at Sea (3). Study of Interior Architecture of Cruise Vessels. Students learn spatial material and regulatory issues associated with marine design.

IND 5427 Construction Documents in Interior Architecture (3). Conceptual framework for design of building assemblies, understanding of construction technologies and properties of interior building materials. Construction drawings and specifications are produced. Prerequisite: Graduate standing.

IND 5428 Materials and Methods (3). Research and analysis of building materials and methods. Properties of materials and performance in a variety of light building, interior and environmental assemblies are investigated.

IND 5438 Lighting Design (3). Exploration of theories and applications of lighting design. Emphasis on studying research about interactions between light, people and articulation of interior space.

IND 5445C Furniture Design (3). Providing a general overview of furniture design process, this design/build studio course teaches students about ergonomics, scale, space, structure and materiality related to furniture design.

IND 5446 Professional Practice and Entrepreneurship in Furniture Design (3). Learn about industry standards and entrepreneurial strategies that successful designers and furniture companies use when bringing new designs to different markets.

IND 5447C Advanced Furniture Design (6). Research, analyze and design furniture using wood, metals and plastics. Instruction will include advanced technical skills and emphasis on qualitative and conceptual aspects of design.

IND 5454L Advanced Construction Documents in Interior Architecture Lab (2). Supplement Adv CDs Lectures with hands on exercises in advanced problems associate with production of professional construction documents for interior design practice. Prerequisite: IND 5427

IND 5475 Computer Applications in Design (3). Study of computer software packages applicable to the architecture office environment, with particular emphasis on CAD software, graphics packages and desktop publishing.

IND 5477 Computer Applications in Design II (3). Intermediate study of computer software applicable to the architecture and interior design office environment, with particular emphasis of CADD software, graphics packages and desktop publishing.

IND 5485 Advanced Construction Documents in Interior Architecture (1). Advanced understanding of construction technologies, plus properties and assembly systems of interior building materials. Construction drawings and specifications are produced. Prerequisite: IND 5427.

IND 5486 Materials for Interiors (3). Analysis and research of critical issues affecting selection and application of interior finish materials.

IND 5508 Professional Practice (3). Advanced study office administration, contract negotiation, fee structure, professional ethics, client and public relations. Investigations and analysis of business organizations and project management. Prerequisite: Program approval.

IND 5509 Personal Branding and Career Preparation (3). Learn brand strategy, storytelling, media consistency, brand maintenance, interviews, and personal marketing packages. Covers values of responsibility, accountability and effectiveness.

IND 5513 Managing the Design Project (3). Principles and methods of managing design projects including, buildings, interiors and landscape projects. Content covers planning, scheduling, organizing, and controlling complex design projects.

IND 5602 Healthcare Design 1 (6). Advanced design studio addressing prevailing and future issues in healthcare design.

IND 5603 Healthcare Design Studio 2 (6). Students explore application of theoretical issues in order to create 'what-if' scenarios in health care design that might not be currently addressed in industry.

IND 5612 Environmental Systems for Healthcare Environments (3). Study of building environmental systems and building performance issues that impact the design of Healthcare environments.

IND 5615 Building Systems for Interiors (3). Study of building environmental systems and building performance issues that impact the design of building interiors and affect the health, safety, welfare, and performance of building occupants. Prerequisite: IND 5628.

IND 5616 Environment and Behavior Theory (3). Students explore, analyze, and interpret various environment and behavior theories appropriate for designing healthcare environments.

IND 5617 Health Care Theory (3). Exploration of health care theory, its manifestation in specific health care models and delivery systems, plus, its implementation in design of healthcare environments.

IND 5625 Interior Architecture Theory II (3). Overview of the environmental parameters, morphological concepts and ideological principles that generate form and meaning in interior design, architecture, and landscape architecture.

IND 5626 Project Programming (3). Students perform pre-design research and analysis aimed at programming the design of a specific facility. Students ultimately prepare a program of requirements for their master's project. Prerequisites: IND 5937, IND 6639. Corequisite: IND 6259C.

IND 5628 Sustainable Practices in Interior Architecture (3). Analysis and application of theoretical, practical, and professional issues involved in designing sustainable interior environments.

IND 5629 Computer Applications in Design III (3). Students learn advanced techniques in digital design through using 3 dimensional modeling and rendering software within the design process.

IND 5637 Design Research Methods (3). Advanced strategies and tactics to gather, organize, assess, analyze, interpret and judge the many forms many forms of information relevant to design.

IND 5645 Structures 1 (1). Through the study of statics and strength of materials this introductory course provides a scientific basis for analysis of how various structural systems work and withstand loading. Prerequisites: PHY 2053 and MAC 2233 or MAC 1114 or MAC 1147.

IND 5645L Structures 1 Lab (2). The lab sessions will supplement lectures through additional practice and hands-on problems that are designed to enhance the application of structural concepts. Prerequisites: PHY 2053 and MAC 2233 or MAC 1114 or MAC 1147. Corequisite: IND 5645.

IND 5937 Special Topics (3). Examination of the conceptual framework supporting the theory, and research

applications in specialized area of interior design. Prerequisite: Program approval.

IND 5938 Cejas Eminent Scholar Seminar (1-3). This is a seminar/workshop course taught by distinguished educators, scholars, and designers. Lectures, critical readings, and discussions of thematic topics make up the methodology of the course.

IND 5939 Design Thinking and Creative Process (3). Using literature on design methods, design cognition, cognitive psychology and design protocol studies, students will learn about the various models of creative process in design.

IND 5941 Internship Experience (0). Experience in interior design practice learned through work with licensed professionals.

IND 5948 Interior Architecture Graduate Internship (1-3). Advanced issues in professional practice learned through work experience with design professionals.

IND 5950 Interior Architecture Travel, Culture, and Design (3). Study of Interior Architecture through travel. Adopting a global view, students learn to weigh design decisions within the parameters of ecological, socio-economic, and cultural contexts.

IND 6255 Graduate Design 1 (6). Exploration of highly articulated projects utilizing innovative research methods to strengthen and clarify design concepts taken to a detailed resolution. Corequisite: IND 5427.

IND 6256 Graduate Design 2 (6). Advanced design topics explored. Focus on student specialization interest. Emphasis on integration of design process from conceptual formulation and programming to design development and reflection. Prerequisite: IND 6255.

IND 6257C Graduate Design 3 (6). Advanced content with focus on developing and applying of design criteria to create highly articulated interior environments for work, retail, and recreation. Prerequisite: IND 6256. Corequisite: IND 5485.

IND 6258C Graduate Design 4 (6). Focus on developing a global approach to designing with awareness and respect for cultural and social differences, and the implications of conducting the practice of design within a world market. Prerequisite: IND 6257C.

IND 6259C Graduate Design 5 (6). Complex issues associated with the design of institutional environments are used to explore issues of environment and behavior, universal design, plus issues of health, safety, and welfare. Prerequisite: IND 6258C. Corequisite: IND 5626.

IND 6616C Interior Architecture Theory I (3). Students analyze and explore the application of pivotal theories regarding the relationships between human behavior and the design of interior environments.

IND 6639 Research Methods (3). Methods of data acquisition, analysis, and interpretation used in interior design research. Prerequisite: Program approval.

IND 6906 Independent Study (1-3). Coursework on a particular aspect of Architecture under the direction of faculty in an individual study format. Prerequisite: Program approval.

IND 6910 Graduate Seminar (3). Coursework under the direction of faculty in preparation for a master's thesis or master's project in interior design. Prerequisites: IND 6906, program approval.

IND 6970 Master's Project (1-6). The curriculum was reordered and the Master's project is now the terminal studio for all students.

IND 6971 Master's Thesis (1-6). Coursework under the direction of faculty for the completion of thesis by candidate for the degree of Master of Interior Design. Prerequisites: Program approval and IND 6910.

IND 6973 Thesis Seminar (3). Students develop an independent research strategy that will enable them to address their thesis question. Prerequisite: IND 6979.

IND 6979 Thesis Research (1-3). Design, development, and execution of research project for master's thesis in interior design. Prerequisites: IND 5937, IND 6639.

Journalism + Media

Susan Jacobson, *Interim Chair and Associate Professor*
Jose Alejandro Alvarado, *Clinical Associate Professor of Professional Practice and Program Director for Spanish Language Journalism*
Frederick Blevens, *Emeritus Professor*
Leonardo Ferreira, *Professor*
Richard Hirsch, *NBCU Journalist in Residence*
Stephen Kairalla*, Clinical Associate Professor of Professional Practice*
Karla Kennedy*, Assistant Teaching Professor and Director of Online Learning, CARTA*
Laura Kurtzberg*, Clinical Assistant Professor of Professional Practice*
Lilliam Martinez-Bustos, *Clinical Assistant Professor of Professional Practice*
Teresa Ponte, *Clinical Associate Professor of Professional Practice*
Neil Reisner, *Clinical Associate Professor of Professional Practice*
Allan Richards, *Clinical Associate Professor of Professional Practice*
Howard Saltz*, Courtesy Instructor of Professional Practice*
Charles Strouse, *Assistant Teaching Professor and Digital Director, South Florida Media Network*
Timothy Sullivan, *Clinical Associate Professor of Professional Practice*
Mercedes Vigon, *Clinical Associate Professor of Professional Practice*

Master of Science in Mass Communication

The Department of Journalism + Media in the School of Communication + Journalism (SCJ) offers professional education leading to the M.S. in Mass Communication with current specialization in Spanish-language journalism. The orientation of the graduate program is primarily professional, not theoretical. The program is designed to enhance graduates' abilities to work in the mass communication professions.

Admission Requirements

To be eligible for admission to the graduate program, applicants must meet the following requirements:

1. All applicants must have a bachelor's degree from an accredited college or university.
2. All candidates must show promise of success in graduate studies. Applicants must meet the following criteria, in addition to any program-specific requirements:
   A. Meet minimum GPA: Candidates must have a minimum grade point average (GPA) of 3.0 earned during the last 60 hours of upper-level work.
   B. Students must submit a 500-750 word essay. Topic should reflect why the program is a suitable fit for the applicant's needs.
   C. Students must submit a professional and current resume.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required. No minimum TOEFL score for the Spanish-Language Program is required, for candidates that chose the Spanish-Language Multimedia Track. For those that chose the Latin America and Caribbean Track, a minimum score of 500 will be required. Candidates who have taken or passed the TOEFL more than two years before they apply for admission to the program must repeat the test with the required score.

Application Procedures

A student applying for admission to the graduate program must:

1. Complete online graduate admissions application available at **https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html**.
   A. Have two official copies of transcripts from all colleges or universities attended sent to the Admissions Office. (Copies submitted by applicants will be rejected.)
   B. Submit appropriate test scores and documents to the Admissions Office.

Admission Deadline

Students should adhere to the Florida International University graduate admissions deadlines for Fall, Spring and Summer terms. These deadlines are listed in the Graduate Catalog in the Graduate Admission section.

Note that domestic students and international students have different deadlines. If you have any questions regarding these deadlines, please call the Graduate Admissions office at (305) 348-7000.

Degree Requirements
Plan of Study/Commencement of Program

Upon admission to the graduate program in mass communication, each student will be assigned a faculty advisor. In most cases, this will be the coordinator of the appropriate graduate program. The advisor will be responsible for developing the student's plan of study, requesting applicable transfer of credit where appropriate, monitoring the student's academic progress, and ensuring the fulfillment of the requirements for the master's degree by completing the student's Program of Studies with the student. This will also include a timetable for completion of the work. Any changes in the plan must be approved by the faculty advisor and the appropriate chairperson. It is also the faculty advisor's responsibility to complete a Graduate GPA Course Inclusion Form for classes that are part of the master's program but were taken prior to the student's full admission and/or are lower division classes.

In addition to the development of a plan of study, the advisor must evaluate any deficiencies including, but not limited to the following areas which may require additional course work.

Competency in Statistics

Competence in the fundamentals of statistics is required of all graduate students. In order to register for MMC 5440 (Applied Research Methods in Mass Media) students must demonstrate a knowledge of statistics in one of three ways: by having taken a course in statistics within the last three years, passing an examination in the subject, or

taking a special seminar, offered simultaneously with the commencement of the graduate research course.

Professional Experience

Professional experience in a field directly related to the specialization is an advantage. Applicants without such professional experience may be required to complete up to 9 credits of additional undergraduate course work and/or to complete an internship with a professional organization. After an interview with the applicant, the student's faculty advisor will determine the amount of undergraduate work and the undergraduate courses to be completed.

Transfer Credit

Students may petition the appropriate advisor to transfer up to six hours of graduate credit toward the degree. To be approved for transfer, the courses must have been previously taken at an accredited college or university; the student's advisor must judge the courses relevant to the student's plan of study; the student must not have used the credits toward another degree; the student must have earned a 'B' or higher in the courses, and meet the University requirements. No transfer courses will substitute for skills courses in any area of specialization in the SCJ master's program. All transfer credit must have been completed within the six-year period preceding the date the degree is granted.

Time Limit

All work applicable to the degree, including transfer credit, must be completed within six years of first enrollment in the master's program.

Grades

Students must maintain a minimum GPA of 3.0 in all courses required for the degree. No more than two 'C' grades will be allowed.

Professional Project, Thesis

Students complete a professional project in their areas of specialization. Work on the project generally will be completed during the final semester. Projects will be graded by the student's graduate committee. Students must receive a 'B' or higher on the project for it to be accepted. Students may also opt to do a thesis; GPA requirements are the same.

Required Courses

To earn the M.S. in Mass Communication, students must meet the following requirements:

1. Students must take at least 30 or 36 hours of acceptable graduate credit, depending on the program. Of those hours, all courses in the SCJ taken toward graduation must be at the graduate level.
2. At least 27 hours must be in School of Communication and Journalism.

Mass Communication: Spanish Language Journalism 4+1 Degree Pathway

With their advisor's approval, students from undergraduate majors in a variety of fields may apply to the Mass Comm Spanish Language Journalism 4 + 1 Degree Pathway. If accepted, students will be allowed to take up to 12 credits of graduate courses which will apply toward both their undergraduate and their master's degree program.

The admissions requirements are:

- Current enrollment in an approved bachelor's degree program at FIU
- Completed a minimum of 75 undergraduate credits
- Current GPA of 3.2 or higher
- Complete the separate 4 + 1 application, including signed approval by the director, coordinator or designee of the graduate program.

Student Media Advising

Designed primarily for journalism teachers and/or student media advisors on all levels, the program trains teachers/advisors or those aspiring to the profession in areas related to everyday work.

Core Curriculum

All students must take the following core courses:

MMC 6402	Theories of Mass Communication	3
MMC 5440	Applied Research Methods in the Mass Media	3
MMC 6950	Professional Project	3

In addition to the core courses, students in the student media advising specialization must take the following courses:

JOU 5806	Student Media Advising	3
MMC 5207	Ethical and Legal Foundations of the Student Press	3
MMC 6213	Ethics and Social Responsibility	3
VIC 5205	Trends in Graphics and Design	3

Students must also take two additional three-credit graduate courses in the School of Communication and Journalism in an appropriate area of emphasis. Courses must be approved by the student's advisor.

Nine hours must be in a field of concentration outside the School of Communication and Journalism. A minimum of three of those credits have to be at the graduate level (5000 or 6000 level).

For additional information about the Student Media Advising program please call (305) 919-5625 or email **scj@fiu.edu**.

Spanish-Language Journalism

The Spanish-language journalism track is geared toward Spanish-speaking students educated in the United States who wish to expand their professional options in the Spanish-language media market. It is also designed for Latin American students and journalists who need to acquire writing and reporting skills to work for Spanish print or broadcast media.

This a one-of-a-kind program is offered entirely in Spanish, although bilingual students have the option to present their homework and projects in English. The master's specializes in investigative journalism, a concept incorporated in all the skills courses.

The program, designed to start in the fall, may be completed in one year and consists of 36 credits (12 courses of three credits each). One is an elective and can be taken outside SCJ. The courses are only offered once a year in the semester indicated below, except for the

Final Professional Project, which is offered in the fall, spring and summer terms.

Course Offerings: (36 credits)

REQUIRED COURSES

Core Courses (taken during semester one)

MMC 6108	Theories of Mass Communication & Writing	3
JOU 6185	Reporting Social and Ethnic Issues	3
RTV 6309	Visual Storytelling and Production	3
MMC 5440	Applied Research Methods	3

Additional Courses

RTV 6603	Visual Storytelling and Production II	3
VIC 6005	Web Design and Data Visualization	3
JOU 6118	Investigative Journalism	3
MMC 6213	Ethics and Social Responsibility	3
MMC 6257	Media Management and Entrepreneurship	3
MMC 6950	Mass Communication Professional Project	3
Elective (graduate level approved by the coordinator)		6

For additional information about the Spanish-language Journalism program please call (305) 919-4617 or email **scj@fiu.edu**.

Spanish-Language Journalism with a Track in Latin American and Caribbean Studies

The Spanish-language Master's Program in Journalism with a track in Latin American and Caribbean Studies is designed for graduate students who are new to journalism, and for those who want to further their knowledge in this field. It also offers them the opportunity to specialize in areas of political science that are fundamental for journalists who want to cover Latin American issues. This interdisciplinary program will enable students to delve into the political and historical Latin American context of the stories they will cover as reports. As a result, they have a better understanding of the issues they will be confronted with; they will produce in-depth journalistic work.

The program will consist of 36 credits (12 courses of three credits each). Four courses will be offered through the Latin American and Caribbean Center (LACC) [in English] and eight by the School of Communication + Journalism (SCJ) [in Spanish]. The professional Project must be completed in Spanish, and it will be supervised and graded by faculty members of SCJ's Spanish-Language Master's Program in Journalism.

Course Offerings: (36 credits)

LACC Courses

INR 6008	Colloquium in International Studies	3
LAS 6003	Survey of Latin America and the Caribbean	3
LAH 5935	Topics in Latin American History	3
INR 6107	U.S. Foreign Policy: Process & Institutions	3

SCJ Courses

MMC 6108	Theories of Mass Communication & Writing	3
MMC 5440	Applied Research Methods	3
RTV 6309	Visual Storytelling and Production	3
MMC 6736	Social Media for Communicators	3
VIC 6005	Web Design and Data Visualization	3
JOU 6118	Investigative Journalism	3
MMC 6213	Ethics and Social Responsibility	3
MMC 6950	Professional Project	3

For additional information about the Spanish-language Journalism program please call (305) 919-4617 or email **SCJ@fiu.edu**.

Business Journalism Track

Admission Requirements

To be considered for admission to the graduate program in the School of Communication + Journalism (SCJ), the following criteria must be met:

1. **Degrees**
   A student seeking admission into a graduate program of the University must have a bachelor's degree or equivalent from an accredited institution or, in the case of foreign students, an institution recognized as an institution of higher learning.
2. **Minimum GPA**
   A minimum grade point average (GPA) of 3.0 earned during the junior and senior undergraduate years.
3. **Entrance Examination**
   The Graduate Record Examination (GRE) is required for admission into all programs taught in English. In some cases, the Graduate Management Admission Test (GMAT) is accepted upon the approval of the graduate coordinator. GRE scores with a minimum of 153 on the verbal portion. Graduates of non-U.S. institutions must be academically eligible for further study in the country where the degree was earned. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). Applicants must receive a total of 80 on the iBT TOEFL – equivalent to 550 on the paper-based version, or 213 on the computer-based version of the Test of English as a Foreign – or 6.5 overall on the IELTS.
4. **Resume**
   All applicants must submit a professional resume.

Course Offerings: (36 credits)

SCJ

JOU 6358	Business Reporting: Public Affairs	3
JOU 6352	Advanced Business Feature Writing	3
JOU 6931	Special Topics/Economic News Reporting	3
MMC 5932	Special Topics in Journalism/Advanced Economics Reporting	3
JOU 6355	Applied Research Methods in Business Journalism	3
JOU 6125	The Cyberjournalist	3
MMC 6950	Mass Communication Professional Project	3
MMC 6402	Theories of Mass Communication	3

Business

ACG 6026	Accounting for Managers	3
FIN 5307	Financial Markets and Analysis	3
FIN 6428	Corporate Finance	3

General

One course from the following:

FIN 6656	Latin American Financial Markets	3

FIN 6638	International Capital Markets	3
ECS 5406	Latin American Economies	3
ECS 7435	Economics of the Caribbean	3
ECS 7445	Economics of Central America	3
ECO 5709	The World Economy	3
ECO 5735	Multinational Corporations	3
CPO 6105-6721	Seminars on Regional Politics	3
MAR 6805	Marketing Management in the Global Environment	3
MAN 6606	International Business Environment	3
INR 5007-6936	Seminar on International Politics	3

For additional information about the Business Journalism program please call (305) 919-4617 or email **SCJ@fiu.edu.**

Course Descriptions

Definition of Prefixes

ADV-Advertising; COM-Communications; DIG-Digital Media; JOU-Journalism; MMC-Mass Media Communication; PUR-Public Relations; RTV-Radio: Television; VIC-Visual Communication.
All courses required for the degree will be offered at least once during the term of the student's enrollment.

ADV 6355 Advertising and Society (3). The relationship between advertising, economic, political, moral, and ethical issues.

ADV 6503 Seminar in Advanced Creativity (3). Theoretical and practical application of variable topics including creative problem solving, design, web advertising, pop culture, and IMC tools. Progressive level of difficulty. Prerequisite: Permission of the instructor.

ADV 6805C Advertising and Public Relations Creative Strategy (3). Focuses on the conceptualization of breakthrough strategies and their application to all integrated communication tools. (Offered at least once a year).

COM 5606 Environmental Communication (3). This graduate level course is designed to bring theoretical principles and professional skills associated with mass communication together with environmental issues and themes. Prerequisites: Completion of the six-credit project or internship requirement (EVR 5907) and permission of the instructor or department.

DIG 5167 Social Media Metrics and Evaluation (3). This course introduces strategic aspects of social media analytics by highlighting metrics for assessing effectiveness of social media strategies for global advertising, public relations and marketing.

DIG 5438 Strategic Storytelling and Digital Content Creation (3). This course offers a view of storytelling paradigms and provides the opportunity to apply digital storytelling for strategic purposes using interactive multimedia tools.

DIG 5569 Digital Media Management (3). This course examines various methods and perspectives of managing digital media platforms and content in a strategic communication setting.

JOU 5806 Student Media Advising (3). Designed to assist teachers and advisors of journalism at the high school and junior college level, this course emphasizes the technical aspects of producing student newspapers, yearbooks, and magazines, as well as the legal and ethical considerations facing today's advisor. In addition, attention is given to matters pertaining to curriculum and methodology for effective journalistic instruction. (Offered at least once a year).

JOU 6107 New Media Techniques (3). This course will develop skills in news writing for TV, radio, and print platforms and their respective online converged multimedia formats. Prerequisite: Graduate standing.

JOU 6118 Investigative Journalism (3). The emphasis in this class is on the new media and the possibilities of combining basic news reporting and writing skills with new electronic resources and tools available to journalists.

JOU 6119 Advanced News Writing (3). This course will study the various kinds of advanced reporting and writing techniques a master level journalism student is expected to dominate before graduation. Prerequisite: JOU 6193.

JOU 6125 The Cyberjournalist (3). Students progress beyond a simple knowledge of how to use electronic databases into the realm of mining and manipulating vast data pools such as the U.S. Census.

JOU 6183 Judicial System Reporting (3).

JOU 6185 Reporting Social and Ethnic Issues (3). This course is an introduction to basic elements of journalistic storytelling with special emphasis in how to broaden the understanding on social and ethnic issues. Prerequisite: Graduate standing.

JOU 6186 Covering Social and Ethnic Issues (3). Theme coverage on race, gender, and ethnicity. Enterprise reporting with significance and context, and with its legal, social, political, economic, and ethical implications of diversity.

JOU 6187 Covering the City III (3). Students produce the prototype for a city magazine, from start to finish. Readings: a broad sampling of magazines.

JOU 6193 Thinking Like a Writer (3). Principles and techniques that are common to good writing, regardless of the medium. Students learn to read, observe and think as writers.

JOU 6194 Thinking Like a Writer II (3). Continuation of 1st writing course, with emphasis on elegance at sentence level. Also explores interrelationships of storytelling, editing and design. Readings: Poynter anthology.

JOU 6196 Thinking Like a Writer III (3). Continuation of 1st and 2nd semester writing courses, with emphasis on producing the long piece. Direct support of the writing of Professional Project. Readings/viewings: Pulitzer, Emmy winners.

JOU 6352 Advanced Business Feature Writing (3). Advanced study in the development of in-depth business articles, emphasizing the crucial role of bright writing and eye-catching graphics.

JOU 6355 Applied Research Methods in Business Journalism (3). Techniques in locating and understanding financial data of corporations and other entities whose finances are subject to public disclosure as well as demographic and economic research produced by government, universities, and private research organizations.

JOU 6358 Business Reporting: Public Affairs (3). Advanced study in the use of economic analysis and financial investigation to analyze social and demographic trends for business reporting.

JOU 6931 Seminar on Special Topics (1-3). Instruction in specialized areas of journalism. Prerequisite: Graduate standing.

MMC 5207 Ethical and Legal Foundations of the Student Press (3). Examines ethical and legal foundations underlying the operation of the student press on American campuses, stressing both rights and responsibilities and how to organize publications to protect both. (Offered at least once a year).

MMC 5268 Communication in the Digital Age (3). This course is designed to develop and enhance students' understanding of the foundations for digital communication, including an overview of the historical development of digital communication.

MMC 5306 Global Communications (3). This course explores global markets and intercultural communications while providing advanced study, evaluation and application of cultural context, theories, stakeholders, and trends in media, advertising, and public relations. Analysis of ethical, legal, political, and social communications issues around the globe.

MMC 5440 Applied Research Methods in the Mass Media (3). An advanced course in the acquisition and use of secondary data, including media data, as well as the design, execution and utilization of research studies. Students will conduct an original proprietary study. (Offered at least once a year).

MMC 5655 Mass Communication and the Environment (3). The course brings theoretical principles and professional skills associated with media communication together with environmental issues. Prerequisites: Graduate standing or permission of the instructor.

MMC 5932 Special Topics Seminar (3). A variable topic seminar dealing with issues of interest to the community. Examples are rights of high school journalists, cable TV, the use of mini-computers in creative communication. Prerequisite: Permission of the instructor. (Offered at least once a year).

MMC 5946C Journalism and Media Internship (0-1). This internship is designed to enhance the learning experience of graduate students through intense critical analysis and skills building in a relevant work environment.

MMC 6108 Theories of Mass Communication and Writing (3). The course examines writing theories and processes and explores media responsibility to society including communication principles and techniques found in contemporary communication theories.

MMC 6135 Multimedia Production and Design (3). The course offers introduction in the theory and practice of multimedia production including digital photography, videography, non-linear video editing and sound design.

MMC 6213 Ethics and Social Responsibility (3). This course familiarizes students with professional ethics and standards in advertising and public relations and examines the regulatory environment in which strategic communication takes place. Prerequisite: Permission of the instructor. (Offered at least once a year).

MMC 6257 Media Management and Entrepreneurship (3). Introduction to the basic functions of media management with an emphasis on television and new media in a global marketplace; provides an understanding of business models and decision-making processes.

MMC 6402 Theories of Mass Communication (3). Examines theories and processes of mass communication as well as media responsibility to society and the social and ethical responsibility of communicators. (Offered at least once a year). Prerequisite: Permission of the instructor.

MMC 6412 Applied Media Communication Skills (3). This advanced skills course covers a broad range of written, interpersonal, social media, presentation, and team communication skills for the advertising, marketing and public relations professions.

MMC 6416 Media Planning (3). This course is intended to be a survey of the media planning discipline of advertising. Prerequisite: Permission of the instructor.

MMC 6736 Social Media For Communicators (3). Provide students the tools and strategies needed to find and distribute news on social media, and teach them how to leverage social media attributes to build a brand.

MMC 6900 Independent Study (3). Specialized intensive study in an area of special interest to the student with a focus on directed, independent research. Prerequisites: Requires prior approval by instructor, graduate standing, and full admittance in the program.

MMC 6940 Graduate Internship in Strategic Communication (1-3). On-the-job learning in activity at selected and approved organizations. May include advertising and PR agencies, as well as private, governmental or non-profit organizations. Prerequisite: Graduate standing.

MMC 6950 Mass Communication Professional Project (1-3). Designed to demonstrate student's excellence in an area of communication studies. Prerequisites: Permission of the instructor, 24 credit hours to align with the GSC track requirements; this would not apply to Spanish Language Journalism Program.

MMC 6951C Professional Project II (1). Demonstrates the student's excellence in an area of communication study. Must be taken if student doesn't complete MMC 6950 in one semester. Prerequisite: MMC 6950.

MMC 6970 Mass Communication Master's Thesis (1-3). This course is designed to demonstrate the student's excellence in an area of communication study. This course provides guidelines and direction to graduate students completing their Master's Thesis. Prerequisites: Completion of 27 credit hours, MMC 5440.

PUR 5406 Multi-Cultural Communications (3). Explores the multicultural dimensions of communications with diverse audiences within the United States.

PUR 6607 Global Strategic Communication Management (3). This course acquaints students with the professions and practice of global advertising and public relations in a multicultural world. Prerequisite: PUR 6806.

PUR 6610 Global Reputation Management (3). This course introduces students to the role and value of strategic communication in developing and sustaining an organization's global reputation.

PUR 6806 Global Account Planning (3). This course introduces students to contemporary account planning and global strategic communication techniques. Prerequisite: Permission of the instructor. (Offered at least once a year).

PUR 6935 Advanced Communications Seminar (3). The class will consist of a series of readings, discussions and presentations to immerse students in contemporary issues in Advertising and Public Relations. Prerequisite: Permission of the instructor. (Offered at least once a year).

RTV 5801 Telecommunication Management Structures (3). Intensive study of telecommunication management problems, theory of same, solutions of same through practical application and examination of case studies. Prerequisite: Graduate standing.

RTV 5935 Seminar in International Comparative Broadcasting Systems (3). Introduction to international telecommunication systems with special emphasis on broadcasting. Comparison with other countries. Prerequisite: Graduate standing or permission of the instructor.

RTV 5936 Seminar in New Mass Communication Technologies (3). Discussion of new communication technologies and their influence on the society. Prerequisite: Graduate standing.

RTV 6309 Visual Storytelling and Production (3). The course is designed to teach students the reporting, pre-production and production skills required in multimedia journalism. Prerequisite: MMC 4940.

RTV 6465C Field Production Practicum (3). The student will be responsible for the organization and complete pre-production, production, and post-production of his/her project(s). Prerequisite: Graduate standing.

RTV 6468C Studio Production Practicum (3). The student will be responsible for the organization and complete pre-production, production and post-production of his/her project(s). Will also be required to do directing and I.D. work. Prerequisite: Graduate standing.

RTV 6603 Visual Storytelling and Production II (3). Students will learn broadcast techniques, video editing, newscast and segment production, and on camera reporting. Students will learn to operate studio systems and deliver news on camera. Prerequisite: RTV 6309.

RTV 6937 Decision Making in Broadcast Journalism (3). The roles and ratings, research, visuals, technology and non-news management in choice of news personnel, assignments, content and scheduling. analysis of legal and ethical implications. Prerequisite: Graduate standing.

VIC 5205 Trends in Graphics and Design (3). Design principles and how they relate to trends in student and professional media, including newspapers, magazines and yearbooks. Deals with graphics, packaging, typography and modern design. Prerequisite: Permission of the instructor. (Offered at least once a year). (Supplies fee assessed).

VIC 6005 Web Design and Data Visualization (3). Students will learn how to design, build and publish a news website and a page on social media platforms. This course will also develop the student's skills on data journalism and data visualization.

Landscape Architecture + Environmental and Urban Design

Roberto J. Rovira, *Professor and Chair*
Juan Antonio Bueno, *Professor*
Ebru Ozer, *Associate Professor*
Linda Chamorro, *Assistant Professor*
Gianno Feoli, *Adjunct Professor*
TJ Marston, *Adjunct Professor*
Susan Sprunt, *Adjunct Professor*
Hernan Guerrero Applewhite, *Adjunct Professor*
Caleb Melchior, *Adjunct Professor*
Shaylin Castillo, *Adjunct Professor*
Kacey Parrales, *Adjunct Professor*
Daniela Rodriguez, *Adjunct Professor*

The Landscape Architecture + Environmental and Urban Design (LAEUD) Department focuses on the development of the basic knowledge, skills, and abilities appropriate to the practice of landscape architecture, with a special emphasis on tropical and sub-tropical environments and urban design. Situated between two of the richest coastal and inland ecosystems in the world, Miami presents unparalleled opportunities as an important design laboratory. The city's multilingual, diverse, and ever-expanding needs reflect what many parts of the world will look like in the coming decades. Our focus on leveraging landscape architecture in urbanized regions and especially in tropical and subtropical environments makes for a program that is profoundly relevant to addressing the issues that will affect the most of the world's population by 2100.

Our goal is to educate individuals who can serve and lead the community through the aesthetic, meaningful, and sustainable design of the physical environment. Our program focuses on design and draws from art, science and technology via a rich design studio sequence that benefits from small student-to-faculty ratios, cutting edge technology and workspaces, and study abroad options. Students explore environmental, ecological, and urban issues, and propose innovative solutions in the design of public spaces, infrastructure, urban planning, industrial reclamation, ecotourism, environmental mitigation, and many other areas at the center of the relationship between human beings and their surroundings.

The **Master of Landscape Architecture** (MLA) provides professional degree tracks within a rigorous academic framework intended for individuals with or without pre-professional degrees in landscape architecture. The MLA is structured into two tracks, the Three-Year Track (MLA3) and the Two-Year Track (MLA2). Both are fully accredited by The Landscape Architectural Accreditation Board (LAAB), an autonomous committee of the American Society of Landscape Architects.

The MLA3, a first-professional Master of Landscape Architecture (MLA) degree, is for persons who hold an undergraduate degree in a field other than landscape architecture and intend to become landscape architecture practitioners. Applicants to the program need to check with the College Advising Center to obtain prerequisite course information.

The MLA2 is a first professional degree for individuals with an undergraduate degree in landscape architecture or architecture from an accredited program, or with a pre-professional undergraduate degree landscape architecture or architecture.

The **Master of Arts in Urban Design** (MAUD) is a graduate degree program that enables students to pursue interdisciplinary studies in advanced environmental urban design. The MAUD combines collaborative design instruction, applied research, and knowledge of urban theory, planning, and economics. The MAUD is not eligible for accreditation by LAAB.

The Accelerated Masters Degree

For students seeking to begin their professional design studies as undergraduates, the Landscape Architecture Department offers an accredited **Master of Landscape Architecture** (MLA), which provides a seamless course of study leading from undergraduate freshman year to the conferral of the professional Master of Landscape Architecture degree, which is fully accredited by LAAB. The accelerated MLA is comprised of 156 credit hours of integrated pre-graduate and graduate coursework. The degree consists of 72 credit hours of pre-graduate coursework taken over two years followed by 84 credit hours of graduate coursework.

The department maintains close ties with landscape architecture professionals, with the architecture and interior architecture departments in the college, and with other departments within the university, affording our students opportunities to engage in internships and interdisciplinary projects throughout their MLA experience.

Students applying to the LAEUD should plan for the financial aspects of a design education. This includes the costs of computer hardware, software, travel and field trips, tools and equipment, and modeling supplies. All students must have continued access to a laptop computer through purchase, lease or other arrangements. For further information contact the Advising Center.

Admissions Requirements

All applicants must meet University graduate admissions requirements. Applicants must also submit a portfolio for departmental review that demonstrates the candidate's creative aptitudes. The design portfolio is evaluated based on a candidate's demonstrated sense of composition, attention to detail, graphic communication skills, expressive quality, and sense of space, accuracy, and observation.

Design portfolios may include two-dimensional storyboards (a sequence of still images that show a story), computer printouts, digital images, and photographs of three-dimensional models/projects.

Digital design portfolios should be formatted to fit on 8.5" x 11" pages within a single, multi-page PDF file. Please refer to the departmental website for submission details.

Portfolios submitted after the Application Deadline will be considered if studio space is available.

Students who have successfully completed the portfolio review process must also meet the minimum requirements of an undergraduate degree from an accredited college or university with undergraduate grade point average (GPA) of 3.0 on a 4.0 scale or hold a graduate degree from an accredited institution to be fully admitted into the graduate

program. When the academic record is less than 3.0 GPA, the applicant must submit Graduate Record Examination (GRE) scores. Check the department website for updated application deadlines: http://carta.fiu.edu/landscape/academics/graduate/admissions/

Ownership of Student Work

Student work submitted to the department in satisfaction of course or degree requirements becomes the physical property of the department. However, students retain all rights to the intellectual property of such work. This work may include papers, drawings, models, or other materials. The department assumes no responsibility for safeguarding such materials and at its discretion may retain, return, or discard such materials. Students must petition the department in writing for any deviation from these established policies.

Progression Requirements

No grade below a 'C' will be accepted for graduation in required courses or required electives.

Study Abroad

Study abroad is an important component of an MLA education. Our study abroad center is in Genoa, Italy, and is ideally situated in the historic center of the city in a renovated former convent dating from the 13th century. During the semester abroad option in Italy, students are afforded the opportunity to study artistic, architectural, landscape and interior spaces and artifacts that have long been acknowledged for their exceptional and enduring value. Other travel options are also available for shorter durations and vary by year, but have historically included travel to Spain, France, Mexico, the Bahamas, and Japan. Departmental approval is required for participation.

Mana Wynwood

In addition to our award-winning Paul L. Cejas School of Architecture Building and our facilities in the Miami Beach Urban Studios which include studio spaces, innovation labs, lecture halls, and exhibition spaces, our Mana Wynwood facility is home to selected seminar and studio courses, exhibits, and workshops. Located in one of Miami's more exciting art and design districts, this interdisciplinary hub is steps away from global destinations like Wynwood Walls, renowned art galleries, and leading design firms that afford landscape architecture students and faculty a prominent location and opportunity to participate in one of the city's more dynamic urban transformations.

Thesis Requirement

Graduate students in the landscape architecture department are required to undertake a Master's Project or a Master's Thesis as part of their course of study at the Department of Landscape Architecture. Selection of Master's Thesis requires departmental approval.

Master of Landscape Architecture

Professional Degree Tracks
(Accredited by LAAB)

THREE-YEAR TRACK – 84 Credits

The Three-Year Track (MLA3) is a professional degree for individuals with a Bachelor of Arts or a Bachelor of Science or equivalent, from an accredited institution. Leveling courses are required for students without a design background. These are in addition to degree requirements.

Typical Curriculum

Leveling Courses (Summer B Semester) - 9 Credits

LAA 5605	Design Foundations	3
LAA 5346	Visual Notation in Landscape Architecture I	3
LAA 5371	Computer Practices in Landscape Architecture I	3

First Year (Fall Semester)

LAA 5716	History of Landscape Architecture	3
LAA 5374	Computer Practices in Landscape Architecture 2	3
LAA 5653	Landscape Architecture Graduate Design 1	6

First Year (Spring Semester)

LAA 5541	South Florida Landscapes	3
LAA 5381	Computer Practices in Landscape Architecture 3	3
LAA 6654	Landscape Architecture Graduate Design 2	6

First Year (Summer Semester)

LAA 6382	Analysis Methods	3
	Directed Elective	3

Second Year (Fall Semester)

LAA 6521	Tropical Landscapes	3
LAA 6655	Landscape Architecture Graduate Design 3	6
LAA 5423	Landscape Construction	3

Second Year (Spring Semester)

LAA 5235	Theory of Landscape Architecture	3
LAA 6656	Landscape Architecture Graduate Design 4	6
LAA 5422	Landscape Development	3

Second Year (Summer Semester)

LAA 6916	Research Methods	3
	Directed Elective	3

Third Year (Fall Semester)

Directed Elective		3
LAA 6910	Graduate Seminar	3
LAA 6363	Landscape Architecture Graduate Design 5	6

Third Year (Spring Semester)

LAA 5425	Landscape Documentation	3
LAA 6215	Professional Practice and Entrepreneurship in Landscape Architecture	3
LAA 6970	Master's Project	6
	or	
LAA 6971	Master's Thesis	6

(Departmental Approval Required)

TWO-YEAR TRACK – 60 Credits

The Two-Year Track (MLA2) is a first professional degree for individuals with an undergraduate degree in landscape architecture or architecture from an accredited program, or with a pre-professional undergraduate degree landscape

architecture or architecture. Admission to the two-year track is contingent upon review of applicant's portfolio and transcripts by department faculty to determine that applicants have demonstrated the knowledge and skills equivalent to students who have completed the first year of the MLA3.

Typical Curriculum

Typical for holders of Bachelor of Arts in Architecture or Bachelor of Design in Architectural Studies, if 24 credits of advanced standing are granted.

First Year (Fall Semester)		
LAA 5716	History of Landscape Architecture	3
LAA 5423	Landscape Construction	3
LAA 6655	Landscape Architecture Graduate Design 3	6
First Year (Spring Semester)		
LAA 5235	Theory of Landscape Architecture	3
LAA 5541	South Florida Landscapes	3
LAA 6656	Landscape Architecture Graduate Design 4	6
LAA 5422	Landscape Development	3
First Year (Summer Semester)		
LAA 6916	Research Methods	3
LAA 6382	Analysis Methods	3
	Directed Elective	3
Second Year (Fall Semester)		
LAA 6521	Tropical Landscapes	3
LAA 6910	Graduate Seminar	3
LAA 6363	Landscape Architecture Graduate Design 5	6
Second Year (Spring Semester)		
LAA 5425	Landscape Documentation	3
LAA 6215	Professional Practice in Landscape Architecture	3
LAA 6970	Master's Project	6
	or	
LAA 6971	Master's Thesis	6

(Departmental Approval Required)

Master of Landscape Architecture 4+2 Program

The professionally accredited Master of Landscape Architecture (MLA) degree is 84 credits, of which 12 will be taken during the student's final undergraduate year and will count toward the student's bachelor's degree. Only 5000-level or higher courses are applicable.

Students in all undergraduate programs at FIU are eligible for the 4+2 combined degree program. Students will apply to the MLA program during their third year of undergraduate studies, after successfully completing 60 undergraduate credits.

Applicants must have an undergraduate GPA of 3.0 to be admitted into the 4+2 combined degree program.

Leveling Courses (Summer B Semester) - 9 Credits, to be taken during the summer between the student's Junior and Senior years		
LAA 5605	Design Foundations	3
LAA 5346	Visual Notation in Landscape Architecture I	3
LAA 5371	Computer Practices in Landscape Architecture I	3
First Year {Fall Semester) - 6 Credits, to be taken during the student's final undergraduate year		
LAA 5653	Landscape Architecture Graduate Design 1	6
First Year (Spring Semester) - 6 Credits, to be taken during the student's final undergraduate year		
LAA 6654	Landscape Architecture Graduate Design 2	6
First Year (Summer Semester)		
LAA 6382	Analysis Methods	3
	Directed Elective	3
Second Year (Fall Semester)		
LAA 5374	Computer Practices in Landscape Architecture 2	3
LAA 5423	Landscape Construction	3
LAA 6521	Tropical Landscapes	3
LAA 6655	Landscape Architecture Graduate Design 3	6
Second Year (Spring Semester)		
LAA 5235	Theory of Landscape Architecture	3
LAA 5381	Computer Practices in Landscape Architecture 3	3
LAA 6656	Landscape Architecture Graduate Design 4	6
LAA 5422	Landscape Development	3
Second Year (Summer Semester)		
LAA 6916	Research Methods	3
	Directed Elective	3
Third Year (Fall Semester)		
LAA 5716	History of Landscape Architecture	3
	Directed Elective	3
LAA 6910	Graduate Seminar	3
LAA 6363	Landscape Architecture Graduate Design 5	6
Third Year (Spring Semester)		
LAA 5425	Landscape Documentation	3
LAA 5541	South Florida Landscapes	3
LAA 6215	Professional Practice and Entrepreneurship in Landscape Architecture	3
LAA 6970	Master's Project	6

Master of Arts in Urban Design- 36 credits

(Not eligible for accreditation by LAAB)

A graduate degree for individuals with a Bachelor or Master of Architecture, a Bachelor or Master of Landscape Architecture, a Bachelor or Master of Interior Architecture, a Bachelor or Master of Science or Arts, a Bachelor or Master of Public Administration. The Master of Arts in Urban Design (MAUD) is a 36- credit graduate degree program that enables students to pursue interdisciplinary studies in advanced environmental urban design. As an environmental design-based program, the MAUD combines collaborative design instruction, applied research, and knowledge of urban theory, planning, and economics. One year of full-time study in residency is normally required. Satisfactory completion of 36 credits in the following course of study is required.

Prerequisites for non-design degree students (Summer B Semester)

LAA 5605	Design Foundations	3
LAA 5346	Visual Notations in LSCP ARCH	3
LAA 5371	Computer Practices 1	3

First Year (Fall Semester)

LAA 6245	Theory of Urban Design	3
LAA 5331	Site Analysis of Design	3
PAD 6717	GIS Application for Urban Management	3
PAD 5805	Economic Development and Urban Revitalization	3

First Year (Spring Semester)

LAA 6656	Landscape Architecture Graduate Design 4	4
LAA 5249	Catalysts of the Urban Canvas	3
URP 6315	Introduction to Urban Planning and Growth Management	3

First Year (Summer Semester or Second Year Fall Semester)

Directed Elective		3
Directed Elective		3
LAA 6970	Master's Project	6
(Departmental Approval Required)		

Awards and Scholarships

The following scholarships and awards are presented yearly to students fully admitted to the Graduate Program in Landscape Architecture who have demonstrated outstanding achievements in their studies per the criteria noted.

The Savino & Miller Design Studio Diversity + Inclusion Landscape Architecture Endowed Scholarship. The fund advances the College's academic mission by supporting scholarships for students majoring in landscape architecture. The scholarship is awarded to students enrolled in or accepted for admission to the University who are majoring in landscape architecture. Recipients will be chosen principally based on academic performance by maintaining a GPA of 3.0 or higher with the intention of encouraging future Black/African American practitioners with financial need to apply.

The Ernest and Virginia Makemson Memorial Endowed Scholarship Fund. This fund provides support for students who have demonstrated interest and experience in restoring and preserving Florida's natural and cultural environment through the practice of landscape architecture.

The Latin American and Caribbean Graduate Fellowship Program scholarship which promotes international education and research between FIU and the countries of Latin America and the Caribbean and is overseen by the University Graduate School. Students must be a resident of Latin America or the Caribbean (including Puerto Rico and the U.S. Virgin Islands), fully admitted to a graduate degree, in good academic standing with an overall graduate GPA of 3.0 or better, and enrolled full-time.

American Society of Landscape Architects Student Honor and Merit Awards. On nomination by the Program faculty, the American Society of Landscape Architects awards these to the students who have demonstrated a high degree of academic scholarship and of accomplishments in skills related to the art and technology of landscape architecture.

The Olmsted Scholar Award. On nomination by the Program faculty, the Landscape Architecture Foundation recognizes one student from the program based on their past achievements and their future potential to influence the landscape architecture discipline.

The ARCC King Student Medal. Named in honor of the late Jonathan King, this award is given to one student in the FIU School of Architecture and is based upon criteria established by the Architectural Research Centers Consortium that acknowledge innovation, integrity, and scholarship in architectural and/or environmental design research.

Sigma Lambda Alpha Honor Society. Each year, upon nomination by the Program faculty, the Alpha Chi Chapter of the Sigma Lambda Alpha Honor Society inducts the outstanding students in the Program.

Course Descriptions

Definition of Prefixes

LAA-Landscape Architecture
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

LAA 5233 Theory of Planting Design (3). Study of principles and methods related to the ecological, functional, and aesthetic use of vegetation in landscape architecture. Prerequisite: Program approval. (SS)

LAA 5235 Theory of Landscape Architecture (3). Critical review of the environmental parameters, morphological concepts and ideological principles that generate form and meaning in landscape architecture. Prerequisite: LAA 5716. (S)

LAA 5249 Catalysts of the Urban Canvas (3). Seminar-based course exploring the relationship of focused landscape and architectural interventions in the evolution and development of the urban fabric and its physical context.

LAA 5331 Site Analysis and Design (3). Introduction to ecological, functional, and aesthetic considerations in site analysis, planning and design. Prerequisite: Program approval.

LAA 5346 Visual Notation in Landscape Architecture I (3). Course will develop drawing skills in multiple media, actively engaging in projects of drawing as a medium of investigation, documentation, memory, observation and presentation for landscape architecture. Prerequisite: Program approval.

LAA 5371 Computer Practices in Landscape Architecture 1 (3). Computer applications of graphics, modeling, and animation techniques used in landscape architecture. Prerequisite: Program approval. (S)

LAA 5374 Computer Practices in Landscape Architecture 2 (3). Computer application of drafting and design techniques used in landscape architecture. Prerequisites: LAA 5371, Program approval. (F)

LAA 5378 GIS Applications in Landscape Modeling (3). Introduction to modeling capabilities of GIS in the environmental planning process addressing the natural and cultural characteristics of the landscape. Prerequisite: Program Approval. (SS)

LAA 5381 Computer Practices in Landscape Architecture 3 (3). Contemporary methods of digital representation for landscape architecture. Intensive exploration if three dimensional modeling and rendering techniques. Prerequisites: LAA 5371, LAA 5374, program approval.

LAA 5422 Landscape Development (3). Technical aspects of the design and specification of earthwork, including materials, products, and methods of installation used in landscape development. Prerequisite: LAA 5371. (F)

LAA 5423 Landscape Construction (3). Technical aspects of the design and specification of sitework, including materials, products, and methods of installation used in landscape construction. Prerequisite: LAA 5422. (S)

LAA 5425 Landscape Documentation (3). Production of landscape documents including drawings and project manual, bidding documents, contract documents and technical specifications on the computer. Prerequisite: LAA 5423. (S)

LAA 5427 Landscape Structures (3). Production of landscape construction details for structures and systems used in landscape architecture. Prerequisite: LAA 5423. (F)

LAA 5541 South Florida Landscapes (3). Study of structure, function, and change in the natural and cultural landscapes of tropical and subtropical Florida. Prerequisite: Program approval. (S)

LAA 5605 Design Foundations (3). The course is a rigorous introduction to design fundamentals. It builds a design language through lectures, practical experiences, exploring techniques, materials, skills, making and critical thinking. Prerequisite: Program approval. Corequisites: LAA 5346 and LAA 5371.

LAA 5652 Formative Studio (6). Introduction to concept development, spatial expression, and representational techniques in landscape architecture. Prerequisite: LAA 5346 and LAA 5xxx Computer Applications in Landscape Architecture. (F)

LAA 5653 Landscape Architecture Graduate Design 1 (6). Application of landscape architecture principles and methods to site design in tropical and subtropical contexts. Prerequisite: LAA 5652. (S)

LAA 5716 History of Landscape Architecture (3). Historical survey of the principal sites and traditions manifested in the evolution of landscape architecture and urban design from antiquity to the present. Prerequisite: Program approval. (F)

LAA 5905C Special Topics Design Studio (6). A landscape architectural design studio based on a particular aspect of landscape architectural design and relevant ideologies under the direction of appropriate faculty. Prerequisite: Program Approval.

LAA 5938 Cejas Eminent Scholar Seminar (1-3). This is a seminar/workshop course taught by distinguished educators, scholars, and designers. Lectures, critical readings, and discussions of thematic topics make up the methodology of the course.

LAA 5940 Landscape Architecture Internship (3). Advanced issues in professional practice learned through work experience with a licensed professional.

LAA 5945 Internship Experience (0). Experience in landscape architecture practice learned through work with licensed professionals.

LAA 6215 Professional Practice and Entrepreneurship in Landscape Architecture (3). Study of the ethical, legal, financial, and managerial aspects of professional practice in landscape architecture. Prerequisite: Program approval. (S)

LAA 6245 Theory of Urban Design (3). Critical review of the principal theories of urbanism that have influenced the fabric and image of the city in Western history. Prerequisites: LAA 5235 and LAA 5716. (SS)

LAA 6247 Modern Landscape Architecture (3). Critical review of the origins and development of modern and post modern expressions in landscape architecture. Prerequisites: LAA 5235 and LAA 5716. (SS)

LAA 6347 Italian Design and Culture (3). Course describes evolution of culture and aesthetics & their immediate relationship with creation of these works. Consists of site visits & class lectures. Addt'l readings & project for grad students. Corequisites: LAA 6348, LAA 6910, LAA 6655 or LAA 6656.

LAA 6348 Landscape Architecture of the City (3). The study of urban design and landscape architecture in Genoa, Italy, with emphasis on analysis and representation using manual drawing, digital photography, and conceptual models. Corequisites: LAA 6347, LAA 6910, LAA 6655 or LAA 6656.

LAA 6363 Landscape Architecture Graduate Design 5 (6). Application of interdisciplinary principles and methods to contemporary landscape architecture issues through the design of projects varying in scale and complexity. Prerequisites: LAA 5653, LAA 6654, LAA 6655, LAA 6656.

LAA 6382 Analysis Methods (3). Theories and methods of the organization, analysis, and interpretation of cartographic data using geographic information systems. Prerequisite: Program approval. (SS)

LAA 6390 Digital Landscapes: Techniques in Landscape Representation (3). Application of 3d modeling methods, basic lighting, graphics post-production and photomontage setup using Maya and other 3d software in order to produce high-quality renderings. Basic knowledge of Maya & Photoshop required. Prerequisites: LAA 5381 or ARC XXX equivalent.

LAA 6521 Tropical Landscapes (3). Study of the structure, function, and change in the natural and cultural landscapes of tropical and subtropical regions. Prerequisite: Program approval. (F)

LAA 6654 Landscape Architecture Graduate Design 2 (6). Application of landscape architecture principles and methods to community planning and design in tropical and subtropical contexts. Prerequisite: LAA 5653. (F)

LAA 6655 Landscape Architecture Graduate Design 3 (6). Application of landscape architecture principles and methods to regional management, planning, and design in tropical and subtropical contexts. Prerequisite: LAA 6654. (S)

LAA 6656 Landscape Architecture Graduate Design 4 (6). Application of interdisciplinary principles and methods to urban planning and design in tropical and subtropical contexts. Prerequisite: LAA 6655. (F)

LAA 6905 Independent Study (1-6). Coursework on a particular aspect of landscape architecture under the direction of faculty in an individual study format. Prerequisite: Program approval. (F,S)

LAA 6910 Graduate Seminar (3). Coursework under the direction of faculty in preparation for a master's thesis or master's project in landscape architecture. Prerequisites: LAA 6382, LAA 6916. (F)

LAA 6916 Research Methods (3). Methods of data acquisition, analysis, and interpretation used in landscape architecture research. Prerequisite: Program approval. (SS)

LAA 6936 Special Topics (1-3). Coursework on a particular aspect of landscape architecture under the direction of faculty in a classroom format. Prerequisite: Program approval. (F,S,SS)

LAA 6970 Master's Project (1-6). Coursework under the direction of faculty for the completion of project by candidate for the degree Master of Landscape Architecture. Prerequisite: LAA 6910.

LAA 6971 Master's Thesis (1-6). Coursework under the direction of faculty for the completion of a research or design thesis by candidate for the degree Master of Landscape Architecture. Prerequisites: Program approval and LAA 6910. (S)

College of Communication, Architecture + The Arts

Dean **Brian D. Schriner**
Associate Dean, Cultural and Community Engagement **John A. Stuart**
Associate Dean, Faculty and Program Development **Marilys R. Nepomechie**
Assistant Dean of Students **Katie Rothfield**
Senior Director of Development **Oliver G. Ionita**
Director, CARTA Office of Strategic Communication **Heather Radi-Bermudez**
Chair, Architecture Department **Henry Rueda**
Interim Chair, Art and Art History Department **Brian D. Schriner**
Chair, Communication Department **Aileen Izquierdo**
Chair, Interior Architecture Department **Newton D'Souza**
Interim Chair, Journalism and Media Department **Susan Jacobson**
Chair, Landscape Architecture + Environmental and Urban Design Department **Roberto J. Rovira**
Director, Herbert and Nicole Wertheim School of Music and Performing Arts **Karen Veloz**
Chair, Theatre Department **Joel Murray**

Faculty

Abbott, Phillip, MID *(University of Florida), Assistant Teaching Professor, Interior Architecture*
Adorno, Sandra, Ph.D. *(University of Miami), Assistant Professor, Music Education, Music*
Alston, Brenton, DMA, Artist Diploma *(University of Miami), Assistant Teaching Professor, Instrumental Performance, Director of Wind Ensemble, Music*
Alvarado, Alejandro Jose, Ph.D *(University of Miami), Clinical Associate Professor of Professional Practice and Director, Spanish-language Journalism, Journalism and Media*
Andía, Alfredo, MDes, Ph.D. *(University of California-Berkeley), Associate Professor, Architecture*
Arpad-Cotta, Tori, MFA *(University of Arizona), Associate Professor, Ceramics, Art and Art History*
Ashley, Rokeshia Renne, Ph.D. *(University of Missouri-Columbia), Assistant Professor, Communication*
Bellas, Benjamin Zellner, MFA (*School of the Art Institute of Chicago) Associate Professor, Art and Art History*
Berglin, Jacob, Ph.D. *(Northwestern University), Assistant Professor, Music Education, Music*
Berman, Margo, MM *(University of Miami), Professor, Communication*
Bernhardt, Barry, MA *(Truman University), Associate Teaching Professor, Coordinator of Winds, Brass, Percussion, and Director of Marching Band, Music*
Beyene, Gubae, MA, *(Addis Ababa University), Assistant Teaching Professor, Communication*
Blevens, Frederick R., Ph.D. *(University of Missouri), Emeritus Professor, Journalism and Media*
Bogosian, Biayna, MSAAD (*Columbia University), Assistant Professor, Architecture*
Bonacossa, Federico, DMA *(University of Miami), Assistant Teaching Professor, Music Theory and History, Music*
Bower, Tom, *Associate Faculty, Theatre*
Brant, Sharon, MFA *(University of Wyoming), Associate Professor, Painting/Drawing, Art and Art History*
Brown, Joann, MA *(University of Miami), Teaching Professor, Communication*
Bueno, Juan Antonio, MLA, ASLA, PE *(Harvard University), Professor, Landscape Architecture + Environmental and Urban Design*
Burke, William, MFA *(State University of New York at New Paltz), Professor, Ceramics, Art and Art History*
Busch, Claudia, MSAAD *(Columbia University), Associate Teaching Professor, Architecture*
Calloway, Jason, MM *(The Julliard School), Associate Teaching Professor, Cello, Amernet String Quartet, Music*
Campbell, Gary, MM *(University of Miami), Professor, Jazz Performance, Music*
Canavés, Jaime, MArch, FAIA, IIDA *(University of Florida), Professor, Architecture*
Chamorro, Linda, MLA, *(Harvard University) Assistant Professor, Landscape Architecture + Environmental and Urban Design*
Chandler, Jason R., MArch, AIA *(Harvard University), Associate Professor, Architecture*
Chang, David Y., MFA *(Shanghai Jiao Tong University) Professor, Art and Art History*
Clarke, Davina, Ph.D. *(Nova Southeastern University), Assistant Teaching Professor, Communication*
Couper, James*, (Florida State University), Professor Emeritus, Art and Art History*
Covey, Rebecca, MFA, *(University of Wisconsin), Associate Professor, Theatre*
Cruz, Nilo, Hon. D.Litt. *(Whittier College), Associate Faculty, Theatre*
Davidovici, Robert, Postgraduate Diploma, *(The Juilliard School), Professor and Artist-in-Residence, Violin, Music*
Del Valle, Eduardo, MFA, *(Brooklyn College, CUNY), Professor Emeritus, Art and Art History*
Delgado, Jessica, MS, *(Florida International University), Associate Teaching Professor, Communication*
De Los Reyes, Grizelle, MA, *(University of Florida), Associate Teaching Professor, and Director, Global Strategic Communication – Miami Ad, Communication*
Desrayaud, Nathalie, Ph.D. *(Purdue University), Assistant Professor, Communication*
Dolata, David, Ph.D. *(Case Western Reserve University), Professor, Music History & Collegium, Music*
D'Souza, Newton, Ph.D. *(University of Wisconsin), Associate Professor and Chair, Interior Architecture*
Dundas, Robert B., MFA *(University of Iowa), Associate Professor, Vocal Performance, Opera, Theater, Music*
Duval-Carrié, Edouard, *(École Nationale Supérieure des Beaux-Arts, Paris) Courtesy Professor, Art and Art History*
Echarri, Maria, MSC *(Minnesota State University), Assistant Teaching Professor, Communication*
Eckroth, Michael, Ph.D. *(New York University), Assistant Professor, Jazz Performance, Music*
Elias, Albert, MArch *(Florida International University) Assistant Teaching Professor, Architecture*
Eugene-King, Betty, MA, *(Barry University), Assistant Teaching Professor, Communication*
Ferreira, Leonardo, Ph.D., *(Michigan State University), Professor, Journalism and Media*
Fiorato, Guido, *Courtesy Professor, Art and Art History*
Galand, Joel, Ph.D. *(Yale University), Associate*

Professor, Music Theory and Director, Graduate Studies, Music

Galaska, Anthony, MFA *(Purdue University), Associate Professor, Theatre*

Gálvez, Jahaira Ríos Campos, MFA *(Barry University), Visiting Assistant Teaching Professor, Art and Art History*

García, Orlando, DMA, *(University of Miami), Distinguished University Professor, and Coordinator, Composition, Music*

Gekic, Kemal, MA, *(University of Novi Sad, Yugoslavia), Professor and Artist-in-Residence, Piano, Instrumental Performance, Music*

Gelpi, Nicholas, MSAAD, AIA, *(Columbia University), Associate Professor, Architecture*

Goldemberg, Eric M., MSAAD, *(Columbia University), Associate Professor, Architecture*

Gomez del Valle, Mirta, MFA, *(Brooklyn College, CUNY), Professor Emeritus, Art and Art History*

Goslin, Christopher, MA, *(New York University), Associate Teaching Professor, Theatre*

Guernsey, Daniel, Ph.D., *(University of Wisconsin-Madison), Associate Professor, Art History, Art and Art History*

Hacker, James, BA, *(University of Miami), Teaching Professor, Trumpet, Instrumental Performance, Music*

Huffnagle, Melvin, MFA, *(University of Florida), Assistant Professor, Theatre*

Ivey, Jennifer, MFA, (*University of Illinois), Assistant Professor, Theatre*

Izquierdo, Aileen, MS, *(Florida International University), Associate Teaching Professor, Chair, and GSC Graduate Director, Communication*

Jacobson, Susan, Ph.D., *(New York University), Associate Professor and Interim Chair, Journalism and Media*

Kairalla, Stephen, B.S., *(University of Miami), Clinical Associate Professor of Professional Practice, Journalism and Media*

Kashian, Nicole Carmen, Ph.D., *(Michigan State University), Associate Professor, Communication*

Kaufman, Fredrick, MM, *(Manhattan School of Music), Professor Emeritus, Music*

Kennedy, Karla, Ph.D., *(University of Florida), Assistant Teaching Professor, Journalism and Media, and CARTA Director of Online Learning*

Khare, Vindhya, DMA, *(University of Miami), Associate Teaching Professor and Coordinator of Vocal Performance, Music*

King, Clive, (*Goldsmiths College of Art, University of London), Professor Emeritus, Art and Art History*

Klotz, Michael, MM *(The Julliard School), Teaching Professor, Viola, Instrumental Performance, Artist-in-Residence, Amernet String Quartet, Music*

Kolasinski, Jacek, MFA, Ph.D., *(Academy of Fine Arts, Warsaw), Associate Professor, and Director, Ratcliffe Art + Design Incubator, Art and Art History*

Kopenhaver, Lillian Lodge, Ed.D,*(Nova Southeastern University), Professor Emeritus, Communication*

Kurland, Nathan Robert, MA, *(Temple University), Assistant Teaching Professor, Communication*

Kurtzberg, Laura, MFA, *(University of Miami), Clinical Assistant Professor of Professional Practice, Journalism and Media*

Leach, D. Neil, MA, Dipl. Arch., Ph.D., *(University of Nottingham), Associate Professor, Architecture, and Director, Doctor of Design*

Littley, Marcia, Artist Diploma, *(University of Cincinnati), Associate Teaching Professor, Violin, and Coordinator of Strings, Instrumental Performance, Music*

Liu, Yu, Ph.D., *(University of Miami), Associate Professor, Communication*

Lopez, Ivan, MFA, *(National Theatre Conservatory), Assistant Teaching Professor, Theatre*

López, José, DMA, *(University of Miami), Associate Professor and Coordinator, Piano, Instrumental Performance, Music*

Maguire, William, MS, *(Illinois Institute of Technology), Professor, Photography, Art and Art History*

Marine, Mark, M.Arch., *(University of California at Los Angeles), Assistant Teaching Professor, Architecture, and Director, FIU by Design*

Marino, Maria Ines, Ed.D., *(University of Florida), Associate Teaching Professor, Communication*

Marsh, Elizabeth, MFA, *(University of Miami), Assistant Professor, Communication*

Martinez, Tony, *(School of Visual Arts, New York), Associate Faculty, Theatre*

Martinez-Bustos, Lilliam, MA, *(University of Southern California), Clinical Assistant Professor of Professional Practice, Journalism and Media*

Mendoza, Javier Jose, Ph.D., *(Ball State University) Assistant Professor, Conducting, Director of Symphony Orchestra, Music*

Millard, Erynn, Ph.D., *(Florida State University), Assistant Professor, Choral Studies and Director of Choirs, Music*

Mirolla, Miriam, Ph.D., *(La Sapienza University, Rome), Courtesy Professor, Art and Art History*

Mitan, Daniel, MFA, *(University of Florida), Associate Teaching Professor, Theatre*

Moshaver, Sam, Ph.D., *(University of Montreal), Assistant Professor, Interior Architecture*

Muino, Esperanza, MID, *(Florida International University), Visiting Assistant Teaching Professor, Interior Architecture*

Murray, Joel, Ph.D., *(Bowling Green State University), Professor and Chair, Theatre*

Nagin, Avi, MM, *(Yale University), Visiting Assistant Teaching Professor, Violin, Music*

Namkung, Michael, MFA, *(San Francisco State University), Assistant Professor, Art and Art History*

Neal, Stephen, MFA, *(Florida State University), Visiting Assistant Teaching Professor, Theatre*

Nedev, Nikolay, MAUD, *(Harvard University), Associate Teaching Professor, Architecture*

Nepomechie, Marilys R., M.Arch., FAIA, DPACSA *(Massachusetts Institute of Technology), Distinguished University Professor, Architecture, and Associate Dean of Faculty and Program Development*

Ousley, Jamie, DMA, *(University of Miami), Associate Professor, Bass, Jazz Performance, Music*

Ottolenghi, Hugo, MA, *(University of North Carolina), Assistant Teaching Professor, Communication*

Ozer, Ebru, MLA, *(Louisiana State University), Associate Professor, Landscape Architecture + Environmental and Urban Design*

Ozgen, Mesut, MD, MM, DMA, *(Arizona State University), Associate Teaching Professor, Guitar and Coordinator, Guitar, Instrumental Performance, Music*

Packard, Justin, MFA, *(American Repertory Theater/ Moscow Art Theater School Institute for Advanced Theater Training at Harvard University), Assistant*

Professor, Theatre

Pareja, Marina, MFA, *(Queen Margaret University College, Edinburgh), Assistant Professor, Theatre*

Park, David, Ph.D., *(University of Wisconsin-Madison), Associate Professor, Communication*

Pappano, Darci, MA, *(Florida International University), Associate Teaching Professor, Interior Architecture*

Pease, Silvia, BFA, MFA, *(University of Miami), Assistant Teaching Professor, Art and Art History*

Perez, Jonathan, MFA, *(Syracuse University) Assistant Teaching Professor, Art and Art History*

Perez, Raquel, Ph.D., *(Nova Southeastern University), Associate Teaching Professor, Communication*

Peterson, Eric, M.Arch., *(University of Florida), Associate Teaching Professor, Architecture*

Plugarasu, Mihaela, MA. *(Florida International University), Assistant Teaching Professor, Communication*

Ponte, Teresa, J.D.. *(Rutgers University School of Law), Clinical Associate Professor of Professional Practice, Journalism and Media*

Powell, Paula A., MS, *(Florida International University), Assistant Teaching Professor, Communication*

Printz, Jennifer, MFA*, (University of Georgia), Assistant Professor, Art and Art History*

Radi-Bermudez, Heather, MA, *(Florida International University), Assistant Teaching Professor, Communication and Director, CARTA Office of Strategic Communications*

Read, A. Gray, M.Arch, Ph.D., RA *(University of Pennsylvania), Associate Professor, Architecture*

Reed, Rachel Lynne Ph.D., *(Texas A+M University), Assistant Teaching Professor, Communication*

Reisner, Neil, M.A., *(Columbia University), Clinical Associate Professor of Professional Practice, Journalism and Media*

Richards, Allan, MA, *(Florida International University), Clinical Associate Professor of Professional Practice, Journalism and Media*

Rosales, Camilo, M.Arch., RA, *(Harvard University), Professor, Architecture*

Rothfield, Katie, MFA, *(Savannah College of Arts and Design), Associate Teaching Professor, Interior Architecture, Director, CARTA Career Development and Assistant Dean of Students*

Rovira, Roberto J., MLA, *(Rhode Island School of Design), Professor and Chair, Landscape Architecture + Environmental and Urban Design*

Rueda, Henry, MSAAD, *(Columbia University), Associate Teaching Professor and Chair, Architecture*

Scharnagl, Gretchen, MFA, *(Florida International University) Associate Teaching Professor, Art and Art History and the Honors College*

Schriner, Brian D., MA, *(University of Miami), Dean, College of Communication, Architecture + The Arts*

Scicluna, Thomas, MFA*, (University of Miami), Assistant Professor, Art and Art History*

Segev, Sigal, Ph.D., *(University of Leicester), Associate Professor, Communication*

Silva, Elisa, M.Arch., *(Harvard University), Associate Professor, Architecture and the Wolfsonian Public Humanities Lab*

Skow, Marilyn R., MPh, *(Columbia University), Professor Emeritus, Theatre*

Soto, Alfredo, MA, *(Florida International University), Assistant Teaching Professor, Communication*

Spiegelhalter, Thomas, MDes, *(Berlin University of the Arts), Professor, Architecture*

Strouse, Charles, MS, *(Florida International University), Assistant Teaching Professor, Journalism and Digital Director of South Florida Media Network*

Stuart, John A., M.Arch, AIA *(Columbia University), Distinguished University Professor, Architecture, Associate Dean, Cultural and Community Engagement, and Executive Director, Miami Beach Urban Studios*

Sudol, Jacob, Ph.D., ABD *(University of California at San Diego), Associate Professor, Music Technology, Music*

Sullivan, Timothy, MA *(University of Nebraska, Lincoln), Clinical Associate Professor of Professional Practice, Journalism and Media*

Suris, Carlos, M.L.S. *(University of South Florida), Associate Teaching Professor, Communication*

Timlick, Lesley-Ann, MFA *(University of California-Davis), Associate Professor, Theatre*

Toosi, Fereshteh Hamidi, MFA, *(Carnegie Mellon University), Assistant Professor, Art and Art History*

Torres, Constantino Manuel, Ph.D., (*University of New Mexico), Professor Emeritus, Art and Art History*

Vassigh, Shahin, Ph.D., *(Florida International University), Professor, Architecture, and Director of Technology Research Development*

Veloz, Karen, Ph.D., *(Florida International University), Associate Teaching Professor, Music Business and Director, Music*

Vigon, Mercedes, Ph.D., *(University of Miami), Clinical Associate Professor of Professional Practice, Journalism and Media*

Villar, Maria Elena, Ph.D., *(University of Miami), Professor, Communication*

Vitenson, Michael, MM, *(The Julliard School), Associate Teaching Professor, Violin, Instrumental Performance, Artist-in-Residence, Amernet String Quartet, Music*

Wallace, Naomi, MFA, *(University of Iowa), Courtesy Professor, Theatre*

Wang, Weirui, Ph.D., *(Pennsylvania State University), Associate Professor, Journalism and Media*

Watts, Barbara, Ph.D., *(University of Virginia), Associate Professor, Art History, Art and Art History*

Webb, Lynne, Ph.D., *(University of Oregon), Professor Emeritus, Communication*

Webber, David, MFA, *(Alfred University), Assistant Teaching Professor, Art and Art History*

Weiss, Michael, BFA, *(University of Southern California), Associate Faculty, Theatre*

Winter, Pioneer, MFA, *(Jacksonville University/White Oak), Assistant Teaching Professor, Theatre and the Honors College*

Yawney, Michael, MFA, *(Columbia University), Associate Professor, Theatre*

Yi, Lidu, Ph.D., *(University of Toronto, Canada), Associate Professor, Art and Art History*

Zhou, Chun, Ph.D., *(University of Miami), Assistant Professor, Communication*

College of Engineering and Computing

Dean **John L. Volakis**
Associate Dean for Academic Affairs **Anthony J. McGoron**
Associate Dean for Research **Osama Mohammed**
Associate Dean for Undergraduate Education **Mark A. Weiss**

The College of Engineering and Computing is committed to **educate** professionals who can **serve industry and the community at large** in a wide variety of fields, as well as **conduct innovative basic and applied research** that meets the technical needs of industry and government, improves the quality of life, and contributes to the economic viability of Florida, the Nation, and the world.

The College of Engineering and Computing consists of five schools: School of Biomedical, Mechanical and Materials Engineering, Knight Foundation School of Computing and Information Sciences, School of Electrical, Computer and Enterprise Engineering, School of Universal Computing, Construction and Engineering Education and Moss School of Construction, Infrastructure and Sustainability; and five academic departments: Biomedical Engineering, Civil and Environmental Engineering, Construction Management, Electrical and Computer Engineering, and Mechanical and Materials Engineering. These academic units offer programs leading to the Bachelor of Arts, Bachelor of Science, Master of Science and Doctor of Philosophy degrees. In addition to the academic departments and schools, the College offers a graduate program that houses the Enterprise and Logistics Engineering.

The College has two institutes and thirteen centers supporting its academic and research programs. The institutes are the Advanced Materials Engineering Research Institute (AMERI) and the Telecommunications and Information Technology Institute (IT2). The centers are the Bioinformatics Research Group (BioRG), Center for Advanced Distributed Systems Engineering, Center for Advanced Technology and Education (CATE), Center for Diversity in Engineering and Computing (CDEC), Center for Emerging Technology for Advanced Information Processing and High-Confidence Systems, Center for the Study of Matter at Extreme Conditions (CeSMEC), Engineering Information Center (EIC), Engineering Manufacturing Center (EMC), High Performance Database Research Center and the Lehman Center for Transportation Research (LCTR). Two major university centers, the Applied Research Center (ARC) and International Hurricane Research Center (IHRC), work very closely with the College of Engineering and Computing with many joint appointments at the faculty level.

The College houses an open-access Motorola Nanofabrication Research Facility to conduct research in nanoelectronics, bio/nanosensors and nanomaterials. In addition, the FIU College of Engineering and Computing has developed many collaborations with industry and hospitals in Florida and across the nation.

The programs of the College are directed towards the practical use of scientific, engineering, and technical principles to meet the objectives of industry, business, government and the public.

The College provides each student with the opportunity to develop a high level of technical skills and to obtain an education, which will prepare him or her for a rewarding career and personal growth. Through the programs and degrees it offers, the College recognizes the growing impact of technology upon the quality of life and that the proper application of technology is critical to meeting current and emerging human needs.

The College faculty is actively engaged with business, industry and government. Faculty members also participate in a variety of basic and applied research projects in areas such as energy, transportation, solid waste disposal, biotechnology, biomedical devices and instrumentation, computer engineering, artificial intelligence, manufacturing, robotics telecommunications, micro-electronics, nano-electronics, nanotechnology, neuro-sciences/engineering, modeling and simulation, construction engineering, materials, structural systems, virtual prototyping, systems modeling, information technology, environmental sciences and engineering, image processing, engineering education, etc.

Doctor of Philosophy

The College offers Doctor of Philosophy degrees in Biomedical Engineering, Civil Engineering, Computer Science, Electrical and Computer Engineering, Engineering and Computing Education, Mechanical Engineering, and Materials Science and Engineering
Areas of study in Biomedical Engineering include:

- Biomechanics, biomaterials, and medical devices
- Bioinstrumentation, and biomedical image/signal processing
- Drug delivery and Bio-nanotechnology
- Medical physics and Biophotonics
- Reparative and Regenerative Tissue Engineering
- Reparative and Therapeutic Neurotechnology

Areas of study in Civil Engineering include:

- Transportation engineering
- Environmental engineering
- Structural engineering
- Water resources engineering
- Geotechnical engineering
- Construction engineering

Areas of study in Computer Science include:

- Networking and distributed systems, wireless networks, mobile and ubiquitous computing, routers, and switches, system modeling.
- Operating systems, distrusted computing, storage systems, virtualization, security, and real-time systems.
- Database systems, including distributed databases, information retrieval in heterogeneous databases, multimedia databases, data mining, and digital libraries.
- Software engineering, including formal methods, software testing techniques, software architecture, software security, software design, model-driven software development, and grid computing.
- Theory, including algorithms and data structures, programming languages, program verification, and logic.
- Bioinformatics and computational biology.

- Artificial Intelligence, including machine learning, expert systems, intelligent agents, affective computing, cognitive science, intelligent human-computer interaction, social informatics.

Areas of study in Electrical and Computer Engineering include:

- Biomedical sciences and technologies
- Computing systems and VLSI design
- Cybersecurity
- Digital signal and image processing
- Machine learning
- Microelectronics including all types of analog, digital and mixed-signal electronics and integrated circuit designs
- Nanoscale electronics and photonics
- Power and energy systems
- Power electronics
- Renewable energy
- RF and microwave engineering
- Systems, robotics, and control
- Telecommunications and networking

Areas of study in Engineering and Computing Education include:

- Educational systems and culture (e.g., educational change in those systems, leadership and policy issues, institutional and departmental structures impacting education)
- Engineering and Computing student experiences (e.g., agency, identity development, motivation, transitions, experiences of particular student groups)
- Equity, diversity, and inclusion in engineering and computing education, could be focused on students, staff, educators and/or professionals
- Instructional practices and educator development in K-12, undergraduate and graduate school, could be face-to-face, hybrid, and/or online. This could include formal and information education, the use of educational technology, or a focus on a particular pedagogy.
- Learning in K-12, undergraduate and graduate school, could be face-to-face, hybrid, and/or online. This could include exploring certain skill and content development as well as learning within particular pedagogies, with technology, and/or in informal spaces.
- Particular settings (e.g., K-12, Hispanic-Serving Institutions, Historically Black Colleges and University, Two-year colleges, makers/innovation spaces, professional workplaces)

Areas of study in Mechanical and Materials Engineering include:

- Additive manufacturing
- Applied mechanics
- CAD/CAM
- Ceramics and electronic materials
- Energy materials
- Mechanics of materials
- Metals and advanced composites
- Modeling and simulation
- Nanomaterials and nano devices
- Polymers and biomaterials
- Robotics
- Thermo/Fluids sciences

Master of Science Degree Programs

The College offers Master of Science degrees in:

- Biomedical engineering
- Civil engineering
- Computer engineering
- Computer science
- Construction management
- Cybersecurity
- Data science
- Electrical engineering
- Engineering management
- Environmental engineering
- Information technology
- Logistics engineering
- Materials science and engineering
- Mechanical engineering
- Telecommunications and networking

Distance Learning Programs

The Office of Distance Education (ODE) provides access to graduate and undergraduate level engineering courses and programs to individual students anywhere and anytime, whether it is at home or the workplace. Courses are delivered through streaming video over the internet.

Research Centers and Institutes

Research spans from a single discipline to multidisciplinary areas in the College of Engineering and Computing. Thus, the College, through its research centers and institutes, has established many collaborative and cooperative partnerships with other units in the university as well as with the regional, state and federal governments and industry.

The research units involved in these efforts include:

- Advanced Materials Engineering Research Institute (AMERI)
- Applied Research Center (ARC)
- Bioinformatics Research Center (BioRG)
- Center for Advanced Distributed Systems Engineering
- Center for Advanced Technology and Education (CATE)
- Center for Diversity and Student Success in Engineering and Computing (CD-SSEC)
- Center for the Study of Matters at Extreme Conditions (CeSMEC)
- Distributed Multimedia Information Systems Laboratory (DMIS)
- Division of External Programs (DEP)
- Engineering Information Center (EIC)
- Engineering Manufacturing Center (EMC)
- Florida Center for Cyber Infrastructure Education and Research for Trust and Assurance
- High Performance Database Research Center (HPDRC)
- Industry-University Cooperative Research Center (I/UCRC) Center for Advanced Knowledge Enablement (CAKE)
- Lehman Center for Transportation Research (LCTR)

- Motorola Nanofabrication Research Facility
- Titan America Structures and Construction Testing Laboratory
- Telecommunications and Information Technology Institute (IT2)

Student Access & Success

The Office of Student Access & Success is committed to improving students' learning and success by providing engaged learning experiences through meaningful and strategic programming and services that will facilitate successful transitions between pre-collegiate, undergraduate and graduate education.

Admission Requirements

Prospective students seeking a graduate degree in the College must satisfy all university admission requirements as well as the specific program requirements. Each department evaluates candidates for admission to its programs. Prospective students should refer to the appropriate section of the catalog for specific admission requirements. Contact information of the Graduate Programs Directors can be found at:
cec.fiu.edu/resources/students/advising/graduate-program-directors/

Admitted Student Procedures

A student who has been accepted to a degree program in the College must meet with the department's Graduate Program Director prior to the enrollment in the first class.

Enrolled students must choose an advisor during their first semester in the program.

Continued contact (at least once per semester) with the advisor is required to review progress and select courses for each succeeding semester.

Courses taken without the required prerequisites and co-requisites, or without the consent of the advisor, will be dropped automatically before the end of the term, resulting in a grade of "DR" or "DF".

Scientific Laboratory Fees are assessed for certain courses where laboratory classes are part of the curriculum. Specific information on scientific laboratory fees may be obtained from the University Financial Services.

Fellowships, Assistantships, and Scholarships

The College of Engineering and Computing offers a variety of fellowships, assistantships, and scholarships to qualified students. These awards are highly competitive; hence, prospective students are urged to apply and submit all required records and scores as early as possible so they can be considered for these awards.

The amounts of these awards vary depending on the type of the award, but they may provide full tuition and a monthly stipend. Visit: **cec.fiu.edu** for additional information.

Policies, Requirements, and Regulations

The University, the University Graduate School, and the College of Engineering and Computing have a set of guidelines to protect the student's rights and to ensure a timely graduation. Students must become familiar with all University, the University Graduate School, and College's graduate procedures. These procedures are described in the University's Student Handbook, this catalog and at **http://gradschool.fiu.edu**.

The programs, policies, requirements and regulations listed in the catalog are continually subject to review to serve the needs of the University's various stakeholders, including its students, and to respond to the mandates of the FIU Board of Trustees and the Florida Legislature. Changes may be made without advance notice.

Florida International University and the College adhere to opportunity practices, which conform to all laws against discrimination and are committed to non-discrimination with respect to race, color, creed, age, handicap, sex, marital status, or nationality. Additionally, the University is committed to the principle of taking positive steps necessary to achieve the equalization of educational and employment opportunities.

College of Engineering and Computing Dismissal Policy

A student who has been dismissed from the University for the first time may see the Graduate Program Director for that department to begin the appeal procedure. The Director will determine if the student is eligible to appeal the dismissal or if there is a way to lift the dismissal. If the student is eligible, he or she must make an appointment to see the department's chairperson or associate chairperson. The student must bring a letter stating when he or she was dismissed the first time and what he or she is going to do to ensure that he or she is not dismissed a second time. If the chairperson determines that the student is worthy of reinstatement, he or she will prepare and sign a memo for the College Dean's consideration stating the conditions for the student to be reinstated. The student may be readmitted on academic probation upon the approval of the Dean of the University Graduate School. If the student does not meet these conditions, he or she will be dismissed a second and final time from the program. The student must also sign an agreement stating that he or she understands that the department will not allow a second reinstatement if the student is dismissed again.

Any student who is dismissed a second time from FIU will not be readmitted under any circumstances. Only a first dismissal appeal is considered in the College of Engineering and Computing, a second dismissal appeal will not be accepted.

Department-Specific Information

For additional information refer to your selected department in this catalog, or call the graduate program director of each department. As listed above.

Other Important Contact Information

Website:**cec.fiu.edu**

Admissions: **https://admissions.fiu.edu/index.html**	(305) 348-7000
College of Engineering and Computing-Graduate Admissions	(305) 348-1890
Campus Resources	(305) 348-2522
Career & Talent Development	(305) 348-1281
Financial Aid	(305) 348-7000
University Graduate School	(305) 348-2455
International Students and Scholars Services	(305) 348-2421
Registrar's Office	(305) 348-7000

Scholarships	(305) 348-6929
Tuition Waivers	(305) 348-7000

Enterprise and Logistics Engineering

Shih-Ming Lee, *Professor of Practice and Interim Director*
Chin-Sheng Chen, *Professor*
Karen E. Schmahl, *Professor of Practice*
Hossein Tavana, *Professor of Practice*
Shabnam Rezapour, *Assistant Professor*

Affiliated and Research Faculty
Qiansan Shen, *Affiliated Professor*
Paul Bianco, *Affiliated Professor*
Seema Pissaris, *Affiliated Professor*
Jesus Sanchelima, *Affiliated Professor*
Javier Munoz, *Affiliated Professor*
J. Chris Ford*, Affiliated Professor*

Master of Science in Engineering Management

The Master of Science in Engineering Management (MSEM) program develops future leaders of business and industry in an engineering and technological environment. The program blends a carefully chosen mix of graduate courses offered by the College of Engineering and Computing, the College of Business Administration, and the College of Law. The MSEM program is designed to offer a tailored degree for those engineers who would like to advance to managerial positions and wish to acquire the necessary knowledge and skills for success. The MSEM program includes coursework that simulates a business environment where students learn and apply engineering tools, managerial theories, and best practices to design and operate industrial systems. Students in the program are expected to acquire contemporary engineering management theories and techniques, and simultaneously build a solid technical foundation in a chosen engineering track.

Admission Policies

The applicant to the MSEM program must have a bachelor's degree in engineering or a closely related field from an accredited institution with a minimum of "B" average in upper-level undergraduate work, or a graduate degree from an accredited institution.
In addition, International applicants whose native language is not English are required to demonstrate English language proficiency through one of the following:
• 80 on the iBT TOEFL (equivalent to 550 on the paper-based version of the Test of English as a Foreign Language);'
• 6.5 overall on the International English Language Testing System (IELTS);
• 53 Pearson Test of English - Academic;
• Cambridge English – Advanced;
• An undergraduate or graduate degree from an accredited institution where the language of instruction is English.
In lieu of the above requirement a student may opt for (a) or (b) below along with an additional method of direct assessment of English language acquisition of an interview or proctored video-taped session

a) Successful completion of University level English courses from an accredited institution (e.g. ENC 1101, ENC 1102 or other equivalent courses with a letter grade of "B" or higher) that prepare applicants to be proficient in English.
OR
b) English Language Institute Level Six: successful completion with passing grades for all content areas;

Plus, one of the following additional methods of assessment:
i) Interview (in person when possible or via videoconference) with admissions committee.
ii) Proctored video-taped responses to questions from the admissions committee.

The applicant whose GPA does not meet the minimum GPA requirement may be considered for conditional admission. For such consideration, the applicant must submit (1) three letters of recommendation; (2) a resume including education, training, and employment history, practical and research experience (such as projects and publications), skills and other pertinent information; and (3) a statement of objective in which the applicant must clearly state his/her intended engineering track, in addition to other information.

Degree Requirements

The MSEM program requires 30 credit hours of course work including 9 credit hours of engineering management core courses, 9 credit hours of business electives and 12 credit hours of approved graduate-level electives from an engineering track.

Engineering Management Core Courses

Students in the Engineering Management program are required to take three courses (9 credit hours) to build an engineering management foundation that includes topics in engineering quality management, systems improvement, engineering project management, intellectual property issues, and business laws. The three core courses are:

EIN 5226C	Total Quality Management For Engineers	3
EIN 5359	Industrial Financial Decisions	3
ESI 6455	Advanced Engineering Project Management	3

Business Electives

Students in the program are required to take three courses (9 credit hours) to gain fundamental knowledge about management functions that includes topics in accounting, finance, organizational behavior, leadership, marketing, and operations management. Additional business electives may be considered subject to the Director's approval. A suggested list of business elective courses is given below:

ACG 6026	Accounting for Managers	3
EIN 6105	Technology Policies and Strategies	3
EIN 6160	Management of Innovation and Technology	3
EIN 6324	Technology Entrepreneurship	3
EIN 6155	Business Plan Development	3
FIN 6406	Corporate Finance	3
FIN 6425	Financial Management Policies	3

FIN 6487	Financial Risk Management- Financial Engineering	3
LAW 5072	Business Law and Intellectual Property for Engineers and Entrepreneurs	3
MAN 6209	Organization Design and Behavior	3
MAR 6805	Marketing Management	3
MAN 6830	Organization Information Systems	3
MAN 6501	Operations Management	3
MAN 6167	Leadership in a Global Environment	3

Engineering Tracks

Students in the Engineering Management program must choose an engineering track from any academic unit in the College of Engineering and Computing. Within a chosen track, students are required to take four courses (12 credit hours) that meet the program's technical requirement. These engineering electives are designed to broaden and deepen the students' understanding of engineering and technology development in a chosen track. Students should have a proper educational background in order to take elective courses. Additional tracks and elective courses may be available, subject to the approval of the Engineering Management program director.

Biomedical Engineering Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

BME 5005	Applied Biomedical Engineering Principles	3
BME 5036	Biotransport Processes	3
BME 5105	Intermediate Biomaterials Science	3
BME 5316	Molecular Bioprocess Engineering	3
BME 5340	Introduction to Cardiovascular Engineering	3
BME 5560	Biomedical Engineering Optics	3
BME 5573	Nanomedicine	3
BME 5505C	Engineering Foundations of Medical Imaging Instrument	3

Computer Engineering Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

EEL 5718	Computer Communication Network Engineering	3
EEL 5725	Hardware Description Languages (VHDL or Verilog)	3
EEL 5757	Real-Time DSP Implementations	3
EEL 6167	VLSI Design	3
EEL 6253	Computer Analysis of Power Systems	3
EEE 6502	Digital Signal Processing	3
EEL 6575	Data Communications Engineering	3
EEL 6681	Fuzzy System Design	3

Computer Science Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

CEN 5011	Advanced Software Engineering	3
COP 5725	Principles of Database Management Systems	3
COP 5614	Operating Systems	3
COT 5310	Theory of Computation I	3
COT 5407	Introduction to Algorithms	3

Construction Management Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

BCN 5716	Productivity in Construction	3
BCN 5626	Construction Cost Analysis & Control	3
BCN 5645	Construction Economic Analysis	3
BCN 5728	Principles of Construction Scheduling	3
BCN 5774	Topics in International Construction	3
BCN 6775	Decision & Risk Analysis in Construction	3
BCN 6916	Development in Construction Technology	3
CCE 5505	Computer Integrated Construction	3

Electrical Engineering Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

EEE 5425	Introduction to Nanotechnology	3
EEL 5171	Advanced Systems Theory	3
EEL 5500	Digital Communication Systems I	3
EEL 5501	Digital Communication Systems II	3
EEL 6219	Electric Power Quality	3
EEL 6261	Power Systems Engineering	3
EEL 6443	Electro-Optical Devices and Systems	3
EEE 6502	Digital Signal Processing	3

Enterprise Systems Track

This track is designed for students who have a career interest in management of operations at the entire enterprise level. Systems engineering tools and information technology are applied to planning, modeling, analysis, design, and implementation of contemporary enterprise systems in any business sector. Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

EGS 5620	Enterprise Systems Configuration	3
EGS 5621	Enterprise Systems Collaboration	3
EGS 5622	Enterprise Systems Integration	3
EGS 5623	Enterprise Systems Optimization	3
EIN 5346	Logistics Engineering	3
EN 5367	Design of Production Systems	3
EIN 6133	Enterprise Engineering	3
EIN 6336	Advanced Production Planning and Control	3
EIN 6345	Inventory Control Systems	3
ESI 5010C	Forecasting and Demand Management	3

Engineering Entrepreneurship Track

This track is designed for students who have a career interest in becoming an engineering entrepreneur who creates jobs in new business ventures or becoming an engineering manager who manages innovation working within a company. Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

EGN 5550	Risk Analysis in Business Concept Development for Engineers and Entrepreneurs	3
EGN 5644	Commercializing Innovation	3
EGN 6436	Manufacturing Process Design	3
EIN 5367	Design of Production Systems	3
EIN 6105	Technology Policies and Strategies	3
EIN 6160	Management of Innovation and	

	Technology	3
EIN 6324	Technology Entrepreneurship	3
EIN 6155	Business Plan Development	3
EIN 6327	Entrepreneurship and New Venture Initiation	3
EIN 6329	Advanced Engineering Business Plan Development	3
EIN 6336	Advanced Production Planning and Control	3
EIN 6392	Product Design for Manufacturability and Automation	3

Environmental Engineering Track

Students in this track are required to take four courses from the following list with the approval of the Graduate Program Director and after meeting prerequisite requirements. Additional courses may be selected with approval of the program director.

ENV 5406	Water Treatment Systems and Design	3
ENV 5517	Design of Wastewater Treatment Plants	3
ENV 5666	Water Quality Management	3
CWR 5235	Open Channel Hydraulics	3
CWR 5125	Groundwater Hydrology	3
ENV 5104	Indoor Air Quality	3
ENV 5105	Air Quality Management	3
ENV 5347	Waste Incineration	3
ENV 5126	Particulate Air Pollution Control	3
ENV 5127	Gaseous Air Pollution Control	3
ENV 5356	Solid and Hazardous Waste	3
ENV 5027	Biomediation Processes	3
ENV 5335	Advanced Hazardous Waste Treatment Processes	3
ENV 5008	Appropriate Technologies for Developing Countries	3
ENV5007	Environmental Planning	3
ENV 5519	Chemistry for Environmental Engineers	3
ENV 6045	Environmental Modeling	3
ENV 6070	Green Engineering	3
ENV 6614	Environmental Impact Assessment	3

Information Technology Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

CIS 5027	Computer Systems Fundamentals	3
CIS 5372	Fundamentals of Computer Security	3
CEN 5087	Software and Data Modeling	3
COP 5725	Principles of Database Management Systems	3
TCN 5030	Computer Communications and Networking Technology	3
EGS 5620	Enterprise Systems Configuration	3
EGS 5621	Enterprise Systems Collaboration	3
EGS 5622	Enterprise Systems Integration	3
EGS 5623	Enterprise Systems Optimization	3
EIN 6117	Advanced Industrial Information Systems	3
EIN 6133	Enterprise Engineering	3
ESI 5602	Engineering Data Representation and Modeling	3
ESI 6601	Data Warehousing and Mining	3

Logistics Engineering Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

EIN 5346	Logistics Engineering	3
EIN 5367	Design of Production Systems	3
EIN 5436	Regulatory Compliance in Logistics and Supply Chain Management	3
EIN 6133	Enterprise Engineering	3
EIN 6336	Advanced Production Planning and Control	3
EIN 6345	Inventory Control Systems	3
ESI 5522	Simulation Models of Engineering Systems	3
ESI 5010C	Forecasting and Demand Management	3
ESI 6316	Applications of OR in Manufacturing	3
ESI 6324	Advances in Logistics Technology	3
ESI 6470	Stochastic Optimization	3
ESI 6546	Network Flow Analysis	3

Mechanical Engineering Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

EGM 5346	Computational Engineering Analysis	3
EGM 5354	Finite Element Methods Applications in ME	3
EGM 5615	Synthesis of Engineering Mechanics	3
EGM 6422	Advanced Computational Engineering Analysis	3
EML 5103	Intermediate Thermodynamics	3
EML 5152	Intermediate Heat Transfer	3
EML 5505	Smart Machine Design and Development	3
EML 5509	Optimization Algorithms	3
EML 5530	Intermediate CAD/CAE	3
EML 5606C	Advanced Refrigeration and AC Systems	3
EML 5709	Intermediate Fluid Mechanics	3
EML 6725	Computational Fluid Dynamics	3

Operations Management of Orthotics and Prosthetics Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of program director.

BME 5141L	Introduction to Laboratory Skills and Materials in Prosthetics and Orthotics	1
BME 5213L	Modern Clinical Evaluation Tools	3
BME 5214L	Orthotic Mgt. of the Lower Limb I	4
BME 5218L	Orthotic Mgt. of the Spine	3
EGN 5435	Product Modeling	3
EGS 5620	Enterprise Systems Configuration	3
EGN 6436	Manufacturing Process Design	3
EGN 6438	Manufacturing Engineering	3
EGN 6940	Graduate Internship - Orthotics and Prosthetics Clinical Rotation	1-6
EGN 6971	Master's Project	3
EIN 6133	Enterprise Engineering	3
EIN 6160	Management of Innovation and Technology	3
EIN 6324	Technology Entrepreneurship	3
EIN 6336	Advanced Production Planning and Control	3
EIN 6392	Product Design for Manufacturability	

	and Automation	3
EIN 6940	ISE Internship	3

Production and Manufacturing Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

EGN 5540	Quality and EH&S Management Systems	3
EGN 6436	Manufacturing Process Design	3
EGS 5620	Enterprise Systems Configuration	3
EGS 5622	Enterprise Systems Integration	3
EIN 5332	Quality Engineering	3
EIN 5346	Logistics Engineering	3
EIN 5367	Design of Production Systems	3
EIN 6336	Advanced Production Planning and Control	3
EIN 6345	Inventory Control Systems	3
EIN 6392	Product Design for Manufacturability and Automation	3
ESI 5010C	Forecasting and Demand Management	3

Quality Engineering and Management

Students in this track are required to take four courses from the following list.

EIN 5332	Quality Engineering	3
EGN 5540	Quality and EH&S Management Systems	3
ESI 6316	Applications of OR in Manufacturing	3
EIN 5367	Design of Production Systems	3
EIN 5106	Regulatory Aspects of Engineering	3
EIN 6133	Enterprise Engineering	3
EIN 6179C	Advanced Total Quality Management for Engineers	3

Risk and Disaster Management Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

BCN 5588	Vulnerability Analysis	3
BCN 5589	Hazard Mitigation	3
EGN 5550	Risk Analysis in Business Concept Development for Engineers	3
ENV 6614	Environmental Risk Assessment	3
FIN 6487	Financial Risk Management- Financial Engineering	3
PHC 6251	Disaster and Emergency Epidemiology	3
MAN 6706	Crisis Management	3
MAP 6630	Numerical Analysis in Risk Analysis and Management	3
MAP 6635	Risk Analysis and Management I	3
MAP 6636	Risk Analysis and Management II	3

Structural/Wind/Construction Track

Students in this track are required to take four courses from the following four groups (one per group) with the approval of the Graduate Program Director and after meeting prerequisite requirements. Additional courses may be selected with approval of the program director.

Group 1

CCE 5035	Construction Engineering Management	3
CCE 5036	Advanced Project Planning for Civil Engineers	3

Group 2

CES 5106	Advanced Structural Analysis	3
EGM 5421	Structural Dynamics	3

Group 3

CES 5715	Prestressed Concrete Design	3
CES 5606	Advanced Structural Steel Design	3
CES 6706	Advanced Reinforced Concrete Design	3
EGN 5439	Design of Tall Buildings	3

Group 4

CEG 5065	Geotechnical Dynamics	3
CEG 6105	Advanced Foundations Engineering	3

Systems Engineering Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

EGN 5540	Quality and EH&S Management Systems	3
EIN 5332	Quality Engineering	3
EIN 5346	Logistics Engineering	3
EIN 5367	Design of Production Systems	3
EIN 6133	Enterprise Engineering	3
EIN 6336	Advanced Production Planning and Control	3
EIN 6345	Inventory Control Systems	3
EIN 6357	Advanced Engineering Economy	3
EIN 6940	Industrial and Systems Engineering Internship	3
ESI 5010C	Forecasting and Demand Management	3
ESI 5522	Simulation Models of Engineering Systems	3
ESI 6316	Applications of OR in Manufacturing	3
ESI 6440	Integer Programming	3
ESI 6470	Stochastic Optimization	3
ESI 6524	Advanced Industrial Systems Simulation	3
ESI 6546	Network Flow Analysis	3

Telecommunications Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

TCN 5010	Telecommunications Technology and Applications	3
TCN 5030	Computer Communications and Networking Technologies	3
TCN 5060	Telecommunications Software and Methodologies	3
TCN 5640	Telecommunications Enterprise Planning and Strategy	3
TCN 6210	Telecommunications Network Analysis and Design	3
TCN 6430	Network Management and Control Standards	3
TCN 6450	Wireless Information Systems	3
TCN 6880	Telecommunications Public Policy Development and Standards	3

Transportation Engineering Track

Students in this track are required to take four courses from the following list. Additional courses may be selected with approval of the program director.

TTE 5205	Advanced Highway Capacity Analysis	3
TTE 5215	Fundamentals of Traffic Engineering	3
TTE 5607	Transportation Demand Analysis	3
TTE 5805	Advanced Geometric Design of Highways	3
TTE 6257	Traffic Control Systems Design	3

TTE 6506	Mass Transit Planning	3
CGN 5320	GIS Applications in Civil and Environmental Engineering	3

Water Resources Engineering Track

Students in this track are required to take four courses from the following list with the approval of the Graduate Program Director and after meeting prerequisite requirements. Additional courses may be selected with approval of the program director.

CWR 5140C	Ecohydrology	3
CWR 5235	Open Channel Hydraulics	3
CWR 5251	Environmental Hydraulics	3
CWR 5535C	Advanced Modeling Applications in Water Resources Engineering	3
CWR 6117	Stochastic Hydrology	3
CWR 5125	Groundwater Hydrology	3
CWR 6126	Advanced Groundwater Hydrology	3
CWR 6236	Engineering Sediment Transport	3
ENV 5666	Water Quality Management	3

Master's Project and Thesis Option

Students in the Engineering Management graduate program may receive permission to conduct a master's project of three credit hours or a thesis of six credit hours within their chosen track to complete the degree program. The master's project (EIN 6916) will replace one graduate elective course. The Master's Thesis (EIN 6971) will replace two technical elective courses.

Grades and Credits

Students are required to maintain a GPA of 3.0. Courses with a grade below 'C' will not be counted toward the Master of Science degree in Engineering Management.

Transfer Credit

Students may receive permission to transfer up to a maximum of six semester credits provided that: (1) the courses were taken at the graduate level at an accredited college or university; (2) with a grade of 'B' or better; (3) the courses were judged relevant by the program director; (4) the credits were not used toward another degree; and (5) the credits will be no older than six years at the time of graduation. Students who already have earned (or are earning) a Master's degree that is closely related to his/her technical track (i.e., MSEM sub-plan) may transfer up to 12 semester hours to meet the track requirement, subject to the Program Director's approval. No more than 12 semester hours taken at FIU as a non-degree seeking student may be counted toward the Engineering Management graduate program.

Time Limit

All works applicable to the Master of Science degree in Engineering Management, including transfer credits, must be completed within six years of conferral of the degree.

Combined BS in Biomedical Engineering/MS in Engineering Management (BSBME/MSEM) Degree Pathway

Students who pursue a BS degree and have completed 75 credits in the undergraduate program of Biomedical Engineering with an overall GPA of 3.2 or higher may, upon recommendation from three faculty members, apply to the department to enroll in the combined BSBME/MSEM pathway. Students must also submit an online application to the University Graduate School for admission to the MSEM program. In addition to the admission requirements of the MSEM program, students must meet all the admission requirements of the University Graduate School.

Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students enrolled in the combined degree pathway could count up to three BME graduate courses for both the BSBME electives and the MSEM electives, for a total saving of 9 credit hours. The following is a list of eligible BME graduate courses:

BME 5005	Applied Biomedical Engineering Principles	3
BME 5036	Biotransport Processes	3
BME 5105	Intermediate Biomaterials Science	3
BME 5316	Molecular Bioprocess Engineering	3
BME 5340	Introduction to Cardiovascular Engineering	3
BME 5560	Biomedical Engineering Optics	3
BME 5573	Nanomedicine	3

The combined BSBME/MSEM pathway has been designed to be a continuous pathway enrollment. During this combined BSBME/MSEM pathway, upon completion of all the requirements of the BSBME program, students will receive their BSBME degree. Students may elect to permanently leave the combined pathway and earn only the BSBME degree. Students who elect to leave the combined pathway and earn only the BS degree will have the same access requirements to regular graduate programs as any other student, but will not be able to use the 9 credit hours in both the BSBME and MSEM degrees.

For each of the graduate courses counted as credits for both BSBME and MSEM degrees, a minimum grade of "B" is required. Only graduate courses with formal lecture can be counted for both degrees. The students are responsible for confirming the eligibility of each course with their undergraduate advisors.

Students interested in the combined pathway should consult with their undergraduate advisor on their eligibility to the pathway. The student should also meet the MSEM Program Director to learn about the graduate program and available tracks/courses before completing the application form and submitting it to their undergraduate advisor. Final decision for admission to the MSEM program will be made by the University Graduate School upon recommendation by the Engineering Management program director. Applicants will be notified by the Engineering Management Program and the University Graduate School of the decision on their applications.

Combined BS in Computer Engineering/MS in Engineering Management (BSCpE/MSEM) Degree Pathway

Students, who are pursuing a Bachelor of Science degree in Computer Engineering and have completed at least 75 credits with a minimum of a 3.2 overall GPA on both lower and upper division courses may, upon recommendation from three ECE faculty members, apply to enroll in the combined BSCpE/MSEM pathway. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. In addition to the admission requirements of the MSEM program, students must meet all the admission requirements of the University Graduate School.

Students enrolled in the combined degree pathway could count up to two Electrical Engineering graduate courses for both the BSCpE electives and the MSEM electives, for a total saving of 6 credit hours. A minimum grade of "B" is required graduate courses counted as credits for both BSCpE and MSEM degrees. Only 5000-level or higher courses may be applied toward both degrees. Only graduate courses with formal lecture can be counted for both degrees.

The combined BSCpE/MSEM pathway has been designed to be a continuous pathway enrollment. Students will receive their BSCpE degree upon completion of all the requirements of the BSCpE program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from his/her bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students may elect to permanently leave the combined pathway and earn only the BSCpE degree. Students who elect to leave the combined pathway and earn only the BS degree will have the same access requirements to regular graduate programs as any other student but will not be able to use the 6 credit hours in both the BSCpE and MSEM degrees.

Students interested in the combined pathway should consult with their undergraduate advisor on their eligibility to the pathway. The student should also meet the MSEM Program Director to learn about the graduate program and available tracks/courses before completing the application form and submitting it to their undergraduate advisor. Final decision for admission to the MSEM program will be made by the University Graduate School upon recommendation by the Engineering Management program director. Applicants will be notified by the Engineering Management Program and the University Graduate School of the decision on their applications.

Combined BS in Computer Science/MS in Engineering Management (BSCS/MSEM) Degree Pathway

Students who pursue a BS degree and are in their first semester of the senior year in Computer Science and have earned at least a 3.2 overall GPA may, upon recommendation from three faculty members, apply to the department to enroll in the combined BSCS/MSEM program. Students must also submit an online application to the University Graduate School for admission to the MSEM program. In addition to the admission requirements of the MSEM program, students must meet all the admission requirements of the University Graduate School.

Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students enrolled in the combined degree pathway could count up to three Computer Science graduate courses toward satisfying both the BSCS and the MSEM requirements, for a total saving of 9 credit hours. Students are required to take courses from the following list. Additional courses may be selected with approval of the program director.

CEN 5011	Advanced Software Engineering
COP 5725	Principles of Database Management Systems
COP 5614	Operating Systems
COT 5310	Theory of Computation I
COT 5407	Introduction to Algorithms

The combined BSCS/MSEM pathway has been designed to be a continuous enrollment pathway. During this combined BSCS/MSEM pathway, upon completion of all the requirements of the BSCS pathway, students will receive their BSCS degree. Students may elect to permanently leave the combined pathway and earn only the BSCS degree. Students who elect to leave the combined pathway and earn only the BS degree will have the same access requirements to regular graduate programs as any other student, but will not be able to use the 9 credit hours in both the BSCS and MSEM degrees.

For each of the graduate courses counted as credits for both BSCS and MSEM degrees, a minimum grade of "B" is required. Only graduate courses with formal lecture can be counted for both degrees. The students are responsible for confirming the eligibility of each course with their undergraduate advisors.

Students interested in the combined pathway should consult with their undergraduate advisor on their eligibility to the pathway, preferably during their junior year, since appropriate planning of coursework is required in order to achieve the full nine-credit benefit. The student should also meet the MSEM Program Director to learn about the graduate program and available tracks/courses before completing the application form and submitting it to their undergraduate advisor. Final decision for admission to the MSEM program will be made by the University Graduate School upon recommendation by the Engineering Management program director. Applicants will be notified by the Engineering Management Program and the University Graduate School of the decision on their applications.

Combined BS in Electrical Engineering/ MS in Engineering Management (BSEE/MSEM) Degree Pathway

Students, who are pursuing a Bachelor of Science degree in Electrical Engineering and have completed at least 75 credits with a minimum of a 3.2 overall GPA on both lower and upper division courses, may, upon recommendation from three ECE faculty members, apply to enroll in the combined BSEE/MSEM pathway. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. In addition to the admission requirements of the MSEM program, students must meet all the admission requirements of the University Graduate School.

Students enrolled in the combined degree pathway could count up to two Electrical Engineering graduate courses for both the BSEE electives and the MSEM electives, for a total saving of 6 credit hours. A minimum grade of "B" is required graduate courses counted as credits for both BSEE and MSEM degrees. Only 5000-level or higher courses may be applied toward both degrees. Only graduate courses with formal lecture can be counted for both degrees.

The combined BSEE/MSEM pathway has been designed to be a continuous enrollment pathway. Students will receive their BSEE degree upon completion of all the requirements of the BSEE program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from his/her bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students may elect to permanently leave the combined pathway and earn only the BSEE degree. Students who elect to leave the combined pathway and earn only the BS degree will have the same access requirements to regular graduate programs as any other student but will not be able to use the 6 credit hours in both the BSEE and MSEM degrees.

Students interested in the combined pathway should consult with their undergraduate advisor on their eligibility to the pathway. The student should also meet the MSEM Program Director to learn about the graduate program and available tracks/courses before completing the application form and submitting it to their undergraduate advisor. Final decision for admission to the MSEM program will be made by the University Graduate School upon recommendation by the Engineering Management program director. Applicants will be notified by the Engineering Management Program and the University Graduate School of the decision on their applications.

Combined BS in Information Technology/MS in Engineering Management (BSIT/MSEM) Degree Pathway

Students who pursue a BS degree and are approaching their first semester of the senior year in Information Technology and have earned at least a 3.2 overall GPA may, upon recommendation from three faculty members, apply to the department to enroll in the combined BSIT/MSEM pathway. Students must also submit an online application to the University Graduate School for admission to the MSEM program. In addition to the admission requirements of the MSEM program, students must meet all the admission requirements of the University Graduate School.

Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students enrolled in the combined degree pathway could count up to three Management Electives toward their nine "interdisciplinary credits" in the BSIT degree program, for a total saving of 9 credit hours.

ACG 6026	Accounting for Managers
EIN 5359	Industrial Financial Decisions
FIN 6406	Corporate Finance
MAN 6167	Leadership in a Global Environment
MAN 6209	Organization Design and Behavior
MAN 6501	Operations Management
MAN 6830	Organization Information Systems
MAR 6805	Marketing Management

The combined BSIT/MSEM pathway has been designed to be a continuous enrollment pathway. During this combined BSIT/MSEM pathway, upon completion of all the requirements of the BSIT program, students will receive their BSIT degree. Students may elect to permanently leave the combined pathway and earn only the BSIT degree. Students who elect to leave the combined pathway and earn only the BS degree will have the same access requirements to regular graduate programs as any other student, but will not be able to use the 9 credit hours in both the BSIT and MSEM degrees.

For each of the graduate courses counted as credits for both BSIT and MSEM degrees, a minimum grade of "B" is required. Only graduate courses with formal lecture can be counted for both degrees. The students are responsible for confirming the eligibility of each course with their undergraduate advisors.

Students interested in the combined pathway should consult with their undergraduate advisor on their eligibility to the pathway, preferably during their junior year, since appropriate planning of coursework is required in order to achieve the full nine-credit benefit. The student should also meet the MSEM Program Director to learn about the graduate program and available tracks/courses before completing the application form and submitting it to their undergraduate advisor. Final decision for admission to the MSEM program will be made by the University Graduate School upon recommendation by the Engineering Management program director. Applicants will be notified by the Engineering Management Program and the University Graduate School of the decision on their applications.

Combined BS in Interdisciplinary Engineering/MS in Engineering Management (BSIE/MSEM) Degree Pathway

Students who pursue a BS degree and are in their first semester of the senior year in Interdisciplinary Engineering and have earned at least a 3.2 overall GPA may, upon recommendation from three faculty members, apply to the department to enroll in the combined BSIE/MSEM pathway. Students must also submit an online application to the University Graduate School for admission to the MSEM program. In addition to the admission requirements of the MSEM program, students must meet all the admission requirements of the University Graduate School.

Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students enrolled in the combined degree pathway could count up to three Management Electives toward their twelve "Engineering Business and Leadership" in the BSIE degree program, for a total saving of 9 credit hours.

ACG 6026	Accounting for Managers
EIN 5359	Industrial Financial Decisions
EIN 6160	Management of Innovation and Technology
EIN 6325	Business Plan Development
FIN 6406	Corporate Finance
FIN 6425	Financial Management Policies
FIN 6487	Financial Risk Management- Financial Engineering
MAN 6167	Leadership in a Global Environment
MAN 6209	Organization Design and Behavior
MAN 6501	Operations Management
MAN 6830	Organization Information Systems
MAR 6805	Marketing Management

The combined BSIE/MSEM pathway has been designed to be a continuous program. During this combined BSIE/MSEM pathway, upon completion of all the requirements of the BSIE program, students will receive their BSIE degree. Students may elect to permanently leave the combined pathway and earn only the BSIE degree. Students who elect to leave the combined pathway and earn only the BS degree will have the same access requirements to regular graduate programs as any other student, but will not be able to use the 9 credit hours in both the BSIE and MSEM degrees

For each of the graduate courses counted as credits for both BSIE and MSEM degrees, a minimum grade of "B" is required. Only graduate courses with formal lecture can be counted for both degrees. The students are responsible for confirming the eligibility of each course with their undergraduate advisors.

Students interested in the combined pathway should consult with their undergraduate advisor on their eligibility to the pathway, preferably during their junior year, since appropriate planning of coursework is required in order to achieve the full nine-credit benefit. The student should also meet the MSEM Program Director to learn about the graduate program and available tracks/courses before completing the application form. Final decision for admission to the MSEM program will be made by the University Graduate School upon recommendation by the Engineering Management program director. Applicants will be notified by the Engineering Management Program and the University Graduate School of the decision on their applications.

Combined BS in Mechanical Engineering/MS in Engineering Management (BSME/MSEM) Degree Pathway

Students who pursue a BS degree and have completed 75 credits in the undergraduate program of Mechanical Engineering with an overall GPA of 3.2 or higher may, upon recommendation from three faculty members, apply to the department to enroll in the combined BSME/MSEM pathway. Students must also submit an online application to the University Graduate School for admission to the MSEM program. In addition to the admission requirements of the MSEM program, students must meet all the admission requirements of the University Graduate School.

Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students enrolled in the combined degree pathway could count up to three Mechanical Engineering graduate courses for both the BSME electives and the MSEM electives, for a total saving of 9 credit hours. The following is a list of eligible Mechanical Engineering graduate courses:

EGM 5346	Computational Engineering Analysis
EGM 5354	Finite Element Method Applications in ME
EGM 5615	Synthesis of Engineering Mechanics
EML 5103	Intermediate Thermodynamics
EML 5152	Intermediate Heat Transfer
EML 5505	Smart Machine Design and Development
EML 5509	Optimization Algorithms
EML 5530	Intermediate CAD/CAE
EML 5606C	Advanced Refrigeration and AC Systems
EML 5709	Intermediate Fluid Mechanics

The combined BSME/MSEM pathway has been designed to be a continuous enrollment pathway. During this combined BSME/MSEM pathway, upon completion of all the requirements of the BSME program, students will receive their BSME degree. Students may elect to permanently leave the combined pathway and earn only the BSME degree. Students who elect to leave the

combined pathway and earn only the BS degree will have the same access requirements to regular graduate programs as any other student, but will not be able to use the 9 credit hours in both the BSME and MSEM degrees.

For each of the graduate courses counted as credits for both BSME and MSEM degrees, a minimum grade of "B" is required. Only graduate courses with formal lecture can be counted for both degrees. The students are responsible for confirming the eligibility of each course with their undergraduate advisors.

Students interested in the combined pathway should consult with their undergraduate advisor on their eligibility to the pathway. The student should also meet the MSEM Program Director to learn about the graduate program and available tracks/courses before completing the application form and submitting it to their undergraduate advisor. Final decision for admission to the MSEM program will be made by the University Graduate School upon recommendation by the Engineering Management program director. Applicants will be notified by the Engineering Management Program and the University Graduate School of the decision on their applications.

Master of Science in Logistics Engineering

The MS-Logistics Engineering program will include student learning outcomes that address logistics from several complementary perspectives: (1) Students will gain structural technical training dedicated to logistics engineering by teaching contemporary logistics systems, technology, and operations; (2) students will gain the systems engineering tools and techniques that apply to addressing emerging challenges in the industry with respect to design and development of logistics systems and technology; and (3) students will gain deeper knowledge of specific areas in logistics such as warehouse or inventory systems design through selection of elective courses.

Admission Policies

The applicant to the MS program in Logistics Engineering must have a bachelor's degree in industrial engineering, systems engineering, operations research, or a closely related area such as business administration, MIS, SCM, or other engineering disciplines, from an accredited institution with a minimum of "B" average in upper-level undergraduate work, or a graduate degree from an accredited institution.

In addition, International applicants whose native language is not English are required to demonstrate English language proficiency through one of the following:

• 80 on the iBT TOEFL (equivalent to 550 on the paper-based version of the Test of English as a Foreign Language);'

• 6.5 overall on the International English Language Testing System (IELTS);

• 53 Pearson Test of English - Academic;

• Cambridge English – Advanced;

• An undergraduate or graduate degree from an accredited institution where the language of instruction is English.

In lieu of the above requirement a student may opt for (a) or (b) below along with an additional method of direct assessment of English language acquisition of an interview or proctored video-taped session

a) Successful completion of University level English courses from an accredited institution (e.g. ENC 1101, ENC 1102 or other equivalent courses with a letter grade of "B" or higher) that prepare applicants to be proficient in English.

OR

b) English Language Institute Level Six: successful completion with passing grades for all content areas;

Plus one of the following additional methods of assessment:

i) Interview (in person when possible or via videoconference) with admissions committee.

ii) Proctored video-taped responses to questions from the admissions committee.

Degree Requirements

The MS program in Logistics Engineering requires 30 credit hours of 10 coursework from three clusters of graduate courses. The first consists of 4 core courses in logistics operations, the second consists of 3 elective courses in systems engineering, and the third consists of 3 elective courses in logistics systems and technology. Additional courses may be considered, subject to approval of the program director.

Logistics Engineering Core Courses: (4 courses, 12 credit hours)

ESI 5010C	Forecasting and Demand Management	3
EIN 5346	Logistics Engineering	3
EIN 5436	Regulatory Compliance in Logistics and Supply Chain Management	3
EIN 6336	Advanced Production Planning and Control	3

Elective Systems Engineering Courses: (3 courses, 9 credit hours)

EIN 5226C	Total Quality Management for Engineers	3
EIN 5332	Quality Engineering	3
EIN 5359	Industrial Financial Decisions	3
ESI 6316	Applications of OR in Manufacturing	3
ESI 6440	Integer Programming	3
ESI 6455	Advanced Engineering Project Management	3
ESI 6470	Stochastic Optimization	3
ESI 6524	Advanced Industrial Systems Simulation	3
ESI 6546	Network Flow Analysis	3
EIN 6133	Enterprise Engineering	3

Elective Logistics Systems and Technology Courses: (3 courses, 9 credit hours)

EGS 5620	Enterprise Systems Configuration	3
EGS 5621	Enterprise Systems Collaboration	3
EGS 5622	Enterprise Systems Integration	3
EGS 5623	Enterprise Systems Optimization	3
EIN 5367	Design of Production Systems	3
ESI 5522	Simulation Models of Engineering Systems	3
EIN 6345	Inventory Control Systems	3
ESI 6324	Advanced in Logistics Technology	3

Master's Project and Thesis Options

Students in the Logistics Engineering graduate program may receive permission to conduct a master's project of three credit hours or a master's thesis of six credit hours within their chosen track to complete the degree program.

The master's project (EIN 6971) will replace one graduate elective course. The Master Thesis (EIN 6971) will replace two graduate elective courses.

Grades and Credits

Students are required to maintain a GPA of 3.0. Courses with a grade below "C" will not be counted toward the Master of Science degree in Logistics Engineering.

Transfer Credit

Students may receive permission to transfer up to a maximum of six semester credits provided that:

1. The courses were taken at the graduate level at an accredited college or university;
2. With a grade of 'B' or better;
3. The courses were judged relevant by the program director; and
4. The credits will be no older than six years at the time of graduation. No more than 12 semester hours taken at FIU as a non-degree seeking student may be counted toward the Logistics Engineering graduate program.

Time Limit

All works applicable to the Master of Science degree in Logistics Engineering, including transfer credits, must be completed within six years of conferral of the degree.

Graduate Certificate in Engineering Management (GCEM)

This certificate program is designed for practicing engineers and graduate students in all engineering majors, who are interested in acquiring skills for managerial careers in the engineering and technology industries. The GCEM program is especially helpful for those engineers who are seeking to transition into management and wish to acquire the necessary perquisite knowledge and skills. More than a sequence of coursework, the certificate program also simulates a business environment where students learn and apply engineering tools, managerial theories, and best practices to design and operate industrial and engineering systems. Students in the program are expected to acquire contemporary engineering management theories and techniques. This certificate program is open to both degree- and non-degree seeking students.

Admission Requirements

A minimum undergraduate GPA of 2.75 is required for admission. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Certificate Requirements

Students must take at least 5 graduate courses from the list below and receive an average grade of "B" or higher. All the credits earned in this Certificate program with "B" or better may be used in the Master of Science in Engineering Management (MSEM) degree program provided the student is admitted to the MSEM degree program prior to the completion of no more than 12 Graduate Certificate credits. Additional courses may be considered, subject to approval of the program director.

EIN 5226C	Total Quality Management for Engineers	3
EIN 5346	Logistics Engineering	3
EIN 5359	Industrial Financial Decisions	3
EIN 6133	Enterprise Engineering	3
EIN 6160	Management of Innovation and Technology	3
EIN 6336	Advanced Production Planning and Control	3
EIN 6345	Inventory Control Systems	3
EIN 6357	Advanced Engineering Economy	3
ESI 5010C	Forecasting and Demand Management	3
ESI 6455	Advanced Engineering Project Management	3
LAW 5072	Business Law and Intellectual Property for Engineers and Entrepreneurs	3

Graduate Certificate in Enterprise Systems (GCES)

This certificate program is designed for those who are interested in acquiring expertise and skills in the growing discipline of Enterprise Systems (ES). ES software utilizes the computational power with massive data storage and transmission capabilities to support enterprise processes, information flows, reporting, and data analytics within and among complex organizations. Typical Enterprise Systems include Enterprise Resource Planning (ERP), Supply Chain Management (SCM), and Customer Relationship Management (CRM). The software architecture aiming at facilitating the flow of information among all business functions inside the boundaries of the organization and to outside stakeholders. Built on a centralized database and business intelligence, ES aims to consolidate all business operations into a uniform, real-time, and enterprise-wide system environment. This certificate program is open to both degree- and non-degree seeking students.

The Graduate Certificate in Enterprise Systems (GCES) program combines the optimal design of enterprise structures and operations with SAP implementation. The Certificate program consists of five required graduate courses.

Admission Requirements

A minimum undergraduate GPA of 2.75 is required for admission. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Certificate Requirements

Students must take at least 5 required courses and receive an average grade of "B" or higher. In addition, students who attain "B" or better in at least three courses will also earn a SAP certificate. All the credits earned in this Certificate program may be used in the Master of Science in Engineering Management (MSEM) degree program provided the student is admitted to the MSEM degree program prior to the completion of no more than 12

Graduate Certificate credits. Additional courses may be considered, subject to approval of the program director.

EIN 5367	Design of Production Systems	3
EIN 5346	Logistics Engineering	3
ESI 5010C	Forecasting and Demand Management	3
EIN 6336	Advanced Production Planning and Control	3
EIN 6345	Inventory Control Systems	3
EIN 6133	Enterprise Engineering	3
EGS 5620	Enterprise Systems Configuration	3
EGS 5621	Enterprise Systems Collaboration	3
EGS 5622	Enterprise Systems Integration	3
EGS 5623	Enterprise Systems Optimization	3

Course Descriptions

Description of Prefixes

EGN-Engineering, General EGS-Engineering Support; EIN-Engineering, Industrial; ESI-Engineering Systems Industrial

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

EGN 5435 Product Modeling (3). Life cycle product data, geometry and form features, product information models and modeling techniques, product modeling systems, and product data standards. Prerequisites: EGN 3124 or equivalent.

EGN 5540 Quality and EH&S Management Systems (3). Design of management control systems for quality, environmental, and occupational health and safety requirements. Principles and process of auditing. Review of related standards. Prerequisite: EIN 5226C.

EGN 5550 Risk Analysis in Business Concept Development for Engineers and Entrepreneurs (3). It integrates assumptions, risk/forecasting with engineering approach to new business development. The course uses exercises, cases and projects to develop practical experience with course theories.

EGN 5644 Commercializing Innovation (3). Product development/process, innovation, commercialization; needs analysis; market segmentation; value proposition; prototyping, packaging and branding; modeling costs and margins; hands-on practice. Prerequisite: Permission of the instructor.

EGN 6436 Manufacturing Process Design (3). Resources modeling, process plan modeling, and planning methodologies for process selection, operations selection, machining parameters selection, setup planning, and inspection planning. Prerequisite: EGN 5842.

EGN 6437 Manufacturing Systems Design (3). System design for production and process planning, resource management, material handling, process control, and quality control. Prerequisite: Permission of the instructor.

EGN 6438 Manufacturing Engineering (3). Manufacturing functions, product and process design, material processing and control, systems design and operations, resource and technology management, and analytical tools for manufacturing. Prerequisites: EIN 3390 or equivalent. (F)

EGN 6940 Graduate Internship - Orthotics and Prosthetics Clinical Rotation (1-6). To provide graduate students with real world clinical experience in Orthotics and Prosthetics, under approved professional supervision. Prerequisite: Permission of the program director.

EGN 6971 Master's Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the Master of Science in Manufacturing Engineering program.

EGS 5620 Enterprise Systems Configuration (3). Enterprise systems overview; major enterprise functions; standard operation procedures; system configuration and parameters; master data; user interfaces and reports; and hands-on experience. Prerequisite: Permission of the instructor.

EGS 5621 Enterprise Systems Collaboration (3). Collaborative engineering and environment; decision processes; changes management; virtual enterprise operation systems; and hands-on experience with a commercial enterprise operation system. Prerequisite: EGS 5622.

EGS 5622 Enterprise Systems Integration (3). Enterprise architectures; work flow modeling and design; systems integration methodology; vertical and horizontal integration; master data analysis and integration; and hands-on experience. Prerequisite: EGS 5620.

EGS 5623 Enterprise Systems Optimization (3). Supply networks overview; interactive supply network planning; optimal systems and process design; optimization techniques and heuristics; master and transaction data transfer; and hands-on experience. Prerequisite: EGS 5622.

EGS 5914 Advanced Research Methods in Engineering and Computing (3). Students will learn to review the literature, develop a research question and hypothesis or objective, design experiments, conduct collaborative research and present results in oral and written form.

EGS 6055 Foundations of Engineering and Computing Teaching and Learning (3). Introduction to learning theory and inclusive, learner-centered, and evidence-based pedagogy and assessment in engineering and computing, using a human-centered design approach to educational design.

EGS 6057 Equity in STEM Education: Research, Policy, and Practice (3). An analysis of diversity and inclusion through research, policy and practice within science, technology, engineering and mathematics (STEM) education for the private and public sectors.

EGS 6080 Essentials of Scientific Proposal Writing (1). This course focuses on scientific proposal writing. Project summary, specific aims, significance, innovation and approaches sections with effective communication and scientific rigor are described. Corequisite: Must be enrolled as a graduate student in a PhD program at FIU.

EIN 5001 Quantitative Foundation for Engineering Managers (3). Topics in operations research, engineering economic analysis and engineering data analysis considered quantitative foundation knowledge for engineering managers.

EIN 5106 Regulatory Aspects of Engineering (3). A survey of the legal and regulatory requirements

encountered by engineers. Included will be OSH Act, NIOSH, ADA, EEOC, Worker's Compensation and Product Liability.

EIN 5123 Industrial/Technological Marketing for Engineering (3). Fundamental concepts for industrial marketing including industrial goods, services, customers, and demands; Industrial procurement and buying behavior; and industrial market segmentation and strategy.

EIN 5226C Total Quality Management for Engineers (3). Study and application of quality management concepts and statistical quality techniques within the framework of continuous improvement methodologies. Prerequisite: EIN 3235 Evaluation of engineering data or equivalent statistics course or permission of instructor (F,S)

EIN 5244 Cognitive Engineering (3). Advanced topics in human factors and cognitive engineering. Theoretical aspects of applied situation awareness and decision making, and applications in a variety of engineering domains. Prerequisite: EIN 4243.

EIN 5249 Occupational Biomechanics (3). Study of the theoretical fundamentals for the mechanics of the body. The link system of the body and kinematic aspects of body movement including applications of biomechanics to work systems. Prerequisites: EIN 4314 Work Design and Industrial Ergonomics or equivalent. (S)

EIN 5256 Usability Engineering (3). The usability aspects of software systems design and testing. The theory of interface design for usability and the methods and techniques for designing and testing technology interfaces. Prerequisite: Permission of Instructor.

EIN 5322 Engineering Management (3). Organization of engineering systems including production and service organizations. Inputs of human skills, capital, technology, and managerial activities to produce useful products and services. (F,S)

EIN 5332 Quality Engineering (3). This course examines quality control from an engineering standpoint. It covers ways to meet the challenge of designing high-quality products and processes at low cost. Prerequisites: EIN 5226C. (S)

EIN 5346 Logistics Engineering (3). Concepts and tools for effective design and management of supply chain systems. Includes logistics strategies, inventory management, customer service, supply chain integration and logistics network design. Prerequisite: Permission of the instructor.

EIN 5359 Industrial Financial Decisions (3). The use of financial techniques and data in planning, controlling and coordinating industrial activities. This course will familiarize the student with accounting concepts and analytical methods. Prerequisite: EGN 3613. (SS)

EIN 5367 Design of Production Systems (3). The design of an industrial enterprise including feasibility, plant layout, equipment specifications, auxiliary services, economics and scheduling. Prerequisite: EIN 3365.

EIN 5436 Regulatory Compliance in Logistics and Supply Chain Management (3). Cargo security compliance; declaration and fiscal compliance; customs warehouse management; transportation regulatory services; industry program support; government solutions and technology solutions. Prerequisites: Senior or Graduate standing.

EIN 5605 Robotic Assembly Cell (3). Concepts of robot manipulation and sensing, part design for robotic assembly, planning manipulator trajectories, machine vision, robot programming language, cell control, and material transfer. Prerequisite: EIN 3600. (S)

EIN 6105 Technology Policies and Strategies (3). Strategies and policies for managing all aspects of technology. Includes value chain integration, intellectual property, and internal processes and systems.

EIN 6117 Advanced Industrial Information Systems (3). Review of the fundamental and theoretical foundation of industrial information systems. Application of the system design process and information system concepts to develop integrated engineering systems. (F,S)

EIN 6131 e-Systems Design (3). The study and application of engineering analysis and design methods for Internet-based systems. The integration of Internet technologies and applications into engineering information systems. Prerequisites: ESI 5602, EIN 6117.

EIN 6132 Collaborative Engineering (3). Product data management, visualization, collaboration, collaborative product commerce, document management, component supplier management, configuration management, enterprise application integration. Prerequisite: Permission of the instructor.

EIN 6133 Enterprise Engineering (3). Enterprise processes and functions, enterprise engineering methodology and techniques, enterprise scalability, systems and vertical integration, systems design and implementation. Prerequisite: Permission of Instructor.

EIN 6160 Management of Innovation and Technology (3). The course provides an integrated view of management of technology. The combination of theory and practice addresses the challenges of globalization, time compression, and technology integration. Prerequisite: Permission of instructor.

EIN 6179C Advanced Total Quality Management for Engineers (3). Advanced concepts in Quality Management including experimental design for scientific management, QFD, Benchmarking, Measurement Systems, regression analysis in quality, and quality loss functions. Prerequisites: EIN 5226C

EIN 6248 Advance Ergonomics (3). Analysis of human factors in the design of engineering systems, with emphasis on the interphase of man-machine-media and human limitations in relation to equipment design and work environments. Prerequisites: EIN 4314, EIN 4243, and PCB 3702 or equivalent. (F)

EIN 6258 Ergonomic Design of Aerospace Systems (3). Application of ergonomic criteria in design of civil and military aircraft cockpits and control systems. Ergonomic consideration in design of outer space vehicles, stations, and systems. Prerequisite: EIN 6248.

EIN 6319 Advanced Work Design (3). Study of the various human physiologic systems and their responses as it relates to occupational work including endurance,

fatigue, recovery, and energy cost of work. Prerequisite: EIN 6248. (S)

EIN 6324 Technology Entrepreneurship (3). Entrepreneurial process, evaluation of technology, startup operations and strategy, business plans and venture capital, intellectual property and rights, growth and technology management.

EIN 6155 Business Plan Development (3). This course deals with the critical decisions and action steps that entrepreneurs must make in both planning and executing a new venture. It also covers how to develop an effective written plan. Prerequisite: Permission of advisor.

EIN 6327 Entrepreneurship and New Venture Initiation (3). It covers critical factors of initiating new ventures: entrepreneurial networks, venture creation, strategies, evaluation, financing, legal considerations, market strategies, and feasibility analysis.

EIN 6329 Advanced Engineering Business Plan Development (3). This course takes students through the process of writing a plan for a new business venture through to implementation. Heavy emphasis placed on research and case analysis. Prerequisites: EIN 6324 or MAN 6805.

EIN 6336 Advanced Production Planning and Control (3). Analytical and algorithmic planning methodologies, planning and scheduling technologies, sequencing rules, control strategies, and line balancing methods. Prerequisite: EIN 4334.

EIN 6345 Inventory Control Systems (3). Design of non-traditional inventory control systems. Development of several inventory system models. Exploration of methods of collecting appropriate demand and cost data for effective systems analysis. Prerequisite: ESI 3314.

EIN 6357 Advanced Engineering Economy (3). Review of engineering economy and the evaluation of advanced manufacturing systems. Evaluation of alternative capital investments considering income taxes, depreciation, inflation, risk and uncertainty. Prerequisite: EGN 3613. (SS)

EIN 6392 Product Design for Manufacturability and Automation (3). Overview and integration of the design-material-manufacture process. Design considerations for manufacturability, assembly, and economical production. Concurrent engineering systems. Prerequisite: EIN 4395. (S)

EIN 6393 Design and Implementation of Discrete Manufacturing Systems (3). Methodology and techniques for design, planning and implementation of discrete production systems including process/machine selections, material handling and inspection technologies, cell control, etc. Prerequisites: Graduate or seniors with EIN 3365, EIN 3390, and ESI 3523 or equivalent.

EIN 6397 Advanced Topics in Manufacturing Automation (3). Overview of manufacturing systems; evolution of controls and AI, material handling, automation clamps, jigs, and fixtures, cutting sensors, machine vision and autonomous manufacturing. Prerequisites: EIN 6392 and EIN 6398.

EIN 6398 Advanced Manufacturing Process Engineering (3). Non-traditional manufacturing processes. Tool selection, jig and fixture design, material handling, tolerance and dimensioning. Product assembly engineering economics, and manufacturing process planning. Prerequisite: EIN 3390. (F)

EIN 6603 Applied AI/Expert Systems in Industrial Engineering (3). Application of artificial intelligence and expert systems as engineering tools. Exploring the use of PCs and symbolic machine with various AI/Expert Systems software. Several projects are required. Prerequisite: CAP 5680.

EIN 6606 Robotic Systems (3). Basic robotic system principles, functional requirements of robotic systems, simulation of system preliminary design, and physical experimentation of robotic systems.

EIN 6908 Independent Study (1-3). Individual supervised study by a faculty. A study plan and a final report are work required. Prerequisite: Departmental approval.

EIN 6910 Supervised Research (1-9). Advanced research credits under the supervision of the dissertation advisor.

EIN 6916 Master's Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the MSEM degree project option. Only three credits are applicable towards the degree. Prerequisite: Departmental approval.

EIN 6932 Graduate Seminar (0). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings and discussions among participants. (F,S)

EIN 6936 Design of Industrial Engineering Systems (3). Overview of systems theories. Systems design process including: Problem definition, analysis, generation of alternatives, systems evaluation, selection of preferred system, and implementation. Prerequisites: EIN 6345, ESI 6316, and ESI 6524.

EIN 6940 Industrial and Systems Engineering Internship (1-3). To provide graduate students with work experience under approved industrial supervision. Prerequisite: Departmental approval.

EIN 6950 Engineering Management Masters Project (1-3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the Master of Science in Engineering Management program. Prerequisite: Departmental approval.

EIN 6971 Master's Thesis (1-3). The students following the thesis option should work on his/her thesis through this course. (F,S,SS)

EIN 7980 Ph.D. Dissertation (1-12). Doctoral research leading to Ph.D. dissertation in Industrial and Systems Engineering. Prerequisites: Doctoral Candidacy and permission of Graduate Director.

ESI 5010C Forecasting and Demand Management (3). Forecasting overview. Times series methods. Regression methods. Advanced forecasting models. Demand planning. Pricing and revenue optimization with capacity constraints. Case studies. Prerequisite: Permission of the instructor.

ESI 5456 Productivity Management in the Global Organization (3). Analysis of productivity management

strategies. Major issues in performance and productivity management, domestic and global outsourcing, international labor standards and trade policies. Prerequisites: EIN 4214 or equivalent.

ESI 5522 Simulation Models of Engineering Systems (3). Simulation Methodology; design and implementation of models of engineering systems using computer software; case studies. Prerequisite: STA 3033 or EIN 3235 or equivalent and COP 3175 or equivalent.

ESI 5602 Engineering Data Representation and Modeling (3). The course will cover the life cycle of designing, developing, and implementing engineering database systems by applying the IDEFx methodology. Prerequisite: Permission of Instructor.

ESI 5603 Advanced Software Tools for ISE (3). Algorithms and principles to integrate heterogeneous tools. Principles of XML, ASP, and other tools. Development of programming projects.

ESI 6316 Applications of OR in Manufacturing (3). Overview of OR techniques. Manufacturing system and product selection. Shop loading, resource allocation, production scheduling, job sequencing, and plant layout problems. System performance evaluation. Prerequisite: ESI 3314. (F)

ESI 6319 Operations Research and Information Technology (3). Principles and paradigms for the design and implementation of OR models, which may be integrated into an organization's existing information system and technologies. Prerequisite: ESI 6316.

ESI 6324 Advances in Logistics Technology (3). Emerging logistics technology in financial transactions, communications, and material handling, scanning, tracking, monitoring, production, transportation, warehousing and distribution. Prerequisites: Permission of the instructor.

ESI 6440 Integer Programming (3). Formulating and solving decision-making problems with discrete decision variables. Methods to solve large-scale integer/mixed-integer models. Prerequisite: ESI 6316.

ESI 6455 Advanced Engineering Project Management (3). This course covers entire phases of project management including selection, planning, budgeting, scheduling, monitoring, and control. It focuses on the management of engineering projects through case studies and independent research assignment. Prerequisite: Permission of the instructor. (S,SS)

ESI 6460 Methods for Algorithm Development for Industrial Engineering Applications (3). Methods for algorithm development for Industrial Engineering applications, with emphasis on powerful optimization techniques and analysis tools. Prerequisites: ESI 3314 or permission of instructor.

ESI 6470 Stochastic Optimization (3). Formulating and solving decision-making models with uncertain data. Exact and approximation techniques for large-scale stochastic models. Prerequisite: ESI 6316.

ESI 6524 Advanced Industrial Systems Simulation (3). Advanced simulation techniques with a focus on practical systems modeling using several user-oriented simulation languages. Projects involving design of high-performance simulation programs are required. Prerequisite: ESI 5522 or equivalent. (S)

ESI 6528 Advanced Topics in Simulation Modeling (3). An examination of the role of artificial intelligence, object oriented programming, and databases as enabling technologies in the simulation modeling process. Review of the literature and case studies. Prerequisites: ESI 6524 or equivalent.

ESI 6546 Network Flow Analysis (3). Deterministic and stochastic network flow analysis; minimal cost flow, shortest route, max-flow, and out-of-kilter algorithms; constrained network analysis; and stochastic queuing networks. Prerequisite: ESI 3314.

ESI 6547 Stochastic Models of Industrial Systems (3). Applications of models from gaming, decisions analysis, queueing, inventory and scheduling to assess the performance level of industrial systems operating under random conditions. Prerequisite: ESI 6316.

ESI 6601 Data Warehousing and Mining (3). Knowledge discovery for effective design of data storage. Discussion of the difficulties associated with data warehousing and mining. Literature review and case studies.

Research, Development and Training Centers

Advanced Materials Engineering Research Institute (AMERI)

Arvind Agarwal, *Distinguished Professor, Chairperson and Director Mechanical and Materials Engineering*

The Advanced Materials Engineering Research Institute provides an open access equipment infrastructure to support materials research and engineering over a broad range of technology and capabilities. The Institute provides analytical instrumentation, materials characterization, and process development laboratories to support faculty and industry in the development and characterization of new materials over the continuum from the nanoscale to bulk materials.

The Analytical Instrumentation Laboratory contains two field emission scanning electron microscope (FESEM), a 200 kev Transmission Electron Microscope (TEM), Focused Ion Beam (FIB), Atomic Force Microscope (AFM), X-ray diffraction, thermal (DSC, TGA, DMA, dilatometer flush diffusion, and mechanical testing (uniaxial/biaxial Instron). Process Development laboratories for ceramic processing (sol-gel, tape casting, milling), and thermal processing (air, vacuum, hydrogen, controlled atmosphere furnaces) are available to support faculty and student researchers.

The Institute consists of the **Motorola Nanofabrication Facility** which is supported by a class 100 clean room and nanofabrication capabilities including e-beam lithography and optical photolithography. Fabrication of nano/micro electromechanical systems (N/MENS) can be accomplished by a combination of nanolithography, focused ion beam (FIB) micro machining, nano imprinting, reactive ion etching, and thin film deposition by a variety of techniques (e-beam, sputtering, filament evaporation, cvd).

In addition to supporting research within the graduate program in materials science within the Department of Mechanical and Materials Engineering, the Institute supports faculty across all departments (physics, chemistry, geology, biology, electrical and computer engineering and biomedical engineering) in materials based research.

Research and Support Staff

Arvind Agarwal, *Distinguished, Professor, Chairperson and Director, Mechanical and Materials Engineering*
Chunlei (Peggy) Wang, *Professor and Dissertation Advisor Mechanical and Materials Engineering*
Benjamin Boes*l, Associate Professor, Graduate Faculty and Dissertation Advisor, Mechanical and Materials Engineering*
Zhe Cheng, *Associate Profess*or, *Dissertation Advisor and Graduate Faculty, Mechanical and Materials Engineering*
Jiuhua Chen, *Professor, Dissertation Advisor and Graduate Faculty, Mechanical and Materials Engineering*
Alexander Franco, *Research Faculty and Electron Microscopy Specialist*
Jin He, *Associate Professor, Physics*
W. Kinzy Jones, *Professor Emeritus, Mechanical and Materials Engineering*
Wenzhi Li, *Professor, Physics*
Norman Munroe, *Professor and Dissertation Advisor, Mechanical and Materials Engineering*
Daniela Radu, *Associate Professor, Director NASA-CRE2DO, Dissertation Advisor and Graduate Faculty, Mechanical and Materials Engineering*
P.M. Raj, *Associate Professor, Dissertation Advisor and Graduate Faculty, Biomedical Engineering*
Surendra Saxena, *Professor Emeritus, Mechanical and Materials Engineering*
Shekhar Bhansali, *Distinguished Professor and Chairperson, Electrical and Computer Engineering*
Sakhrat Khizroev, *Courtesy Professor, Electrical and Computer Engineering and College of Medicine*
Nezih Pala, *Associate Professor, Dissertation Advisor and Graduate Faculty Electrical and Computer Engineering*
Yuriy Vlasov, *Instructor*
Patrick Roman, *Assistant Director, AMERI Manager*

Applied Research Center (ARC)

Ines R. Triay, Ph.D. *Center Director*
Leonel Lagos, Ph.D., PMP *Director of Research and Director of Workforce Development*
Dwayne McDaniel, Ph.D., *Associate Professor, MME*
David Roelant, Ph.D. *Principal Scientist, Leads FIU Interdisciplinary Nuclear Research Program*
Himanshu Upadhyay, Ph.D., *Principal Scientist*
Gloria Dingeldein, *Associate Director of Administrative Services*

ARC's **mission** is to be the leading international university-based research institution providing value-driven, real-world solutions, which will enable Florida International University to acquire, manage, and execute educationally relevant and economically sound research programs.

ARC's **vision** is to lead, integrate, and deliver multidisciplinary research and development solutions in environment, energy, and information technology to meet customer commitments on time and at cost. In carrying out this mission, the ARC is committed to providing training opportunities to the University's uniquely diverse student body under the mentorship of the Center's internationally recognized engineers and scientists.

Environment & Energy – ARC has been performing research and technology development for the environmental cleanup of the U.S. Department of Energy (DOE) nuclear weapons complex sites since 1995. ARC engineers, scientists and students apply specialized knowledge and skills in state-of-the-art research facilities to understand the underlying science and develop and deploy technology solutions to complex environmental challenges while training the environmental workforce of tomorrow. For environmental remediation research, ARC has developed the DOE Fellows program, a unique flagship program designed to provide hands-on research, internship and professional development opportunities to FIU STEM minority students. Since it inception of the program in 2007, ARC has successfully transitioned undergraduate, graduates (PhD, Master's) students onto the Department of Energy workforce. For energy research, ARC collaborates with FIU's College of Arts, Sciences, and Education to develop R&D and support the growth of: the radiochemistry and health physics academic programs; and the FIU Nuclear Scholars and Nuclear Fellows programs for students.

Green & Sustainable Technologies: ARC is researching ways to improve technologies to use less electric energy and natural resources in production and in operations while reducing waste and pollution. ARC is developing green buildings by improving technologies for heating and cooling buildings, a major source of energy usage in buildings. Improvements in heating, cooling and ventilation (HVAC) is one area of research. Another area is sustainable remediation which seeks to lower the greenhouse gas footprint of operations while also reducing electrical energy use and other resources.

Soil & Groundwater Remediation: Increasing concentrations of heavy metals and radionuclides in the global environment require a focus on contaminant fate, transport, and persistence in soils and groundwater. ARC carries out research and development of applications with a focus on soil and groundwater remediation. For the last twenty years ARC has developed programs and trained outstanding engineers and scientists to conduct advanced and applied research in areas that are vital to national and international needs in the areas of environmental engineering and soil and groundwater remediation. ARC's projects incorporate biogeochemical cycling, fate and transport of contaminants, and water and wastewater treatment. Researchers use data for testing, evaluation, and validation for new and innovative technologies to support DOE and industry.

Water Resources: ARC's water resources research is established to address key issues in hydrology at local and regional scales, primarily through the development and implementation of state-of-the-art integrated, data assimilating hydrological/transport models. The aim is to create hydrological models that are scalable to the regional, national and global extents which serve as effective tools for water resources management and monitoring.

Geographic Information Systems: Geographic information systems (GIS) technology is an integral part of many of ARC's research and development activities as an analysis tool, its application spanning various areas of applied research including water resources management; soil and groundwater remediation; environmental assessment; nutrient, chemical and radioactive contaminant fate and transport; assessment of renewable energy resources; assessment and impacts of land use change; and climate change analysis. ARC researchers have extensive experience utilizing GIS for mapping and geospatial analysis; geodatabase development; integrated surface and groundwater modeling; air dispersion modeling; storm water modeling; geospatial data and metadata development; web-based and mobile application development; conversion of computer-aided design and drafting (CADD) data; and development of waste information management systems applications.

Radiochemistry and Nuclear Power: Nuclear research and education was launched in 1990 at FIU. FIU developed a radiochemistry PhD track which launched in Aug. 2015 and a health physics specialty under the BS in Physics launched in Aug. 2016. Over this period, many new faculty, staff and students have engaged in nuclear related R&D. Presently over 110 faculty and staff and 75 students are active in nuclear research.

Deactivation & Decommissioning: ARC has over 20 years of experience in performing research in the area of D&D of nuclear facilities, having participated in over 300 projects since 1995 in support of the DOE's Office of Environmental Management (DOE EM). As part of this support, ARC has evaluated baseline and innovative technologies for D&D applications; to date, over 150 technologies have been assessed at ARC's facilities in Miami, at DOE sites, and at technology vendors' facilities.

Cyber Security & Data Science

ARC performs applied and advanced research in the areas of enterprise systems, cyber security and data science. The solutions are tailored to deliver critical information to federal, state, and local governments and private sector clients, keeping them well informed, connected and secure. ARC shares the commitment and responsibility to securing information and information networks with integration of people, operations, and technology.

Data Science: ARC performs extensive research in the area of data science to provide analytical solutions in the area of nuclear and cybersecurity to federal / state governments and national research laboratories. Current research is focused on machine learning, data analytics and visualization.

Cyber Security: ARC performs sponsored research in the areas of cyberspace architecture and framework, virtualization, memory forensics, ethical hacking and cyber analytics to support the Department of Defense (DOD) – Test Resource Management Center (TRMC) and the Department of Energy (DOE) – Office of Environmental Management. Cyber research allows for the training of FIU STEM (science, technology, engineering, and math) undergraduate and graduate students with diverse technical background through the Cyber Fellows (Cyberspace Work Force Development) program. ARC also participates as an active member of the core team of *Cybersecurity@FIU*, which has been designated by FIU as an emerging preeminent program with high potential to demonstrate extraordinary success in providing unique learning opportunities, pioneering research and engagement while expanding FIU's financial base.

Enterprise Solutions: ARC has extensive experience in building custom enterprise systems in the areas of waste management, knowledge management, database management, content management and mobile systems, using the latest technologies for various clients like DOE-EM and DOD-TRMC.

Aerospace & Defense

At ARC, both applied and basic research are being conducted in areas of mechanical and materials engineering that provide support and solutions to a number of industries including aerospace and defense. Some of the fundamental efforts that include computational mechanics and composites can impact other disciplines as well, including energy, biomedical, marine and nuclear.

Robotics: Advancement in computer, material and design technologies has provided an avenue for robotic systems to be utilized in a number of engineering applications that includes nuclear decommissioning, manufacturing, inspection, and repairs. At ARC, robotic systems are being developed to provide a means to inspect areas that may be difficult to obtain access to or unsafe for people to enter. These tools are being designed with sensor systems that can provide valuable information including the health of structures or the status of the area's environment.

Composites: Use of composite materials continues to increase in today's engineering applications due to improved strength to weight ratios, its resistance to corrosion and the reductions in repair and maintenance costs. ARC engineers have focused research efforts on understanding how composite structures can be joined using adhesive bonding. In particular, ARC is investigating quality control procedures for bonding, the durability of the bonds and how contamination may affect bonds.

Computational Mechanics: Advances in simulation software will improve the ability for engineers to effectively simulate engineering processes without having to develop and test systems with costly experimental facilities. Engineers at ARC utilize finite element analysis to aid in the design of complex structures, and computational fluid dynamics software to assist in addressing complex challenges related to simulating fluid flow processes that further expand the capability of the simulation software. Some issues currently being addressed include modeling of mixing processes of multi-phase flows and using reduced-order models to efficiently capture the salient features of the flow.

Workforce Development and Training – The DOE-FIU Science and Technology Workforce Development program is an innovative program to create a "pipeline" of FIU STEM underrepresented students specifically trained and mentored to enter the DOE workforce in technical areas of need. The main objective of the program is to provide a unique integration of FIU course work, DOE field work, and "hands on" training and mentoring at ARC. It is envisioned that once the DOE Fellows graduate from this program they will enter DOE-EM's Professional Development Corps Program and/or work for DOE's contractor firms. To date, over 180 FIU underrepresented students have joined the program. The students are officially inducted into the program and vested with the name of DOE Fellows in a special induction ceremony

celebrated during the fall semester. DOE Fellows also have internship opportunities at DOE national research laboratories and DOE sites around the country. Since the program's initiation in 2007, DOE Fellows have participated in over 136 research internships at locations such as Oak Ridge National Laboratory, Idaho National Laboratory, Pacific Northwest National Laboratory, and DOE-HQ in Washington DC. In addition, DOE Fellows directly support DOE contractors performing environmental remediation around the DOE Complex. DOE Fellows have presented over 210 technical research posters and oral talks at the Waste Management Symposia and other national/international conferences. Furthermore, this program enables undergraduate students to pursue M.S. and Ph.D. degrees by providing paid research assistantships at ARC.

ARC has also developed a Cyberspace Workforce Development Program as part of our support to the DOD to perform cyberspace technology research. This program trains FIU STEM undergraduate and graduate students with diverse technical backgrounds to develop and integrate new cyberspace systems for DOD test applications. The Cyberspace Workforce Development Program actively recruits top minority and underrepresented students at FIU to perform research, attend summer internships, and apply for job opportunities at DOD.

ARC is committed to the education and development of FIU students and has developed a Student Steering Committee (SSC) that oversees the academic and research progress of each student. This committee also conducts interviews and evaluates applicants for the workforce development program.

Doing Business with the Applied Research Center – ARC's employees are drawn from a wide segment of the commercial, government, and academic arenas to collectively utilize their experience and expertise to support the needs of FIU's clients. ARC's operating philosophy recognizes and accommodates the critical performance characteristics of government and commercial activities, while exercising the benefit of its cost structure in a way that serves both client interests and those of the University and its students. Our staff is fully engaged in the project and program activities assigned. The critical difference in the ARC's structure is the project management and administrative processes and structures that have been put in place to serve its clients. The Center has executed work for federal agencies, state and local governments, and commercial entities. For more information on FIU's ARC, please visit **www.arc.fiu.edu** or call (305) 348-4238.

Bioinformatics Research Group (BioRG)

Giri Narasimhan, *Group Leader and Professor, Knight Foundation School of Computing and Information Sciences*

The mission of this research group is to work on problems from the fields of Bioinformatics and Biotechnology. The group's research projects include applications of machine learning in many subareas of Bioinformatics (e.g., microbiome analysis, cancer data analysis, molecular biophysics), pattern discovery in sequences and structures, micro-array data analysis, primer design, probe design, phylogenetic analysis, image processing, image analysis, and more. The group builds on tools and techniques from Machine Learning, Algorithms, Data Mining, Computational Statistics, Neural Networks, and Image Processing.

Center for Advanced Technology and Education (CATE)

Malek Adjouadi, *Ware Professor, Electrical and Computer Engineering Founding Director, Center for Advanced Technology and Education Distinguished University Professor*

Mission

The mission of the NSF-funded CATE center at FIU is to foster cross-disciplinary research as a catalyst for our students to train and develop their creative thinking by bringing in synergy the fields of image and signal processing with application to neuroscience and assistive technology research. In the merging of these technologies, we see a productive ground for the development of new methodologies and designs that (1) meet the impending needs in neuroscience as we elicit both the functional mapping of the brain, and the causality of key brain disorders; and (2) design assistive technology tools that address effectively the issue of "Universal Accessibility", focusing on visual impairment and motor disability. The premise is to translate new theoretical findings into the realm of real-world applicability.

Major Research Themes

- Image and signal processing
- Neuroimaging
- Machine learning
- Brain Mapping
- Informatics and big data
- Web Interfaces for Neuroimaging and Visualization
- Brain Stimulation and Therapeutic Interventions

Major Activities of the CATE Center

Establish a research platform image processing, machine learning and the cohesive study of the human brain, with a focus on epilepsy and Alzheimer's disease, by bringing together several hospitals and academic institutions in a consortium that will consolidate multi-site collaborative studies with a large number of patients in accordance to standardized protocols with the following objectives:

- Create an environment that supports cross-disciplinary initiatives, joint collaborations and programs with access to modern equipment and computing facilities of unprecedented sophistication and integration.
- Extend the scientific reach of these interdisciplinary efforts to overcome the primary barriers in identifying the different factors that influence the functional organization of the brain, as new paradigms and new findings will come to benefit the scientific community as a whole, and to provide critical help to hundreds of patients yearly.
- Provide a consolidated infrastructure for image processing, neuroimaging and machine learn that will come in support of a new cohort of Ph.D. students and to a well-trained and skilled workforce able to bridge engineering and

computing know-how to the fields of medicine and the biosciences.

Faculty and Co-Principal Investigators

Mercedes Cabrerizo, *Associate Professor, CATE Co-Director for the epilepsy program, Electrical and Computer Engineering*

Armando Barreto, *Professor, Director of the Digital Signal Processing Laboratory, Electrical and Computer Engineering*

Angela R Laird, *Professor, Director of the Director, Center for Imaging Science, Physics.*

Naphtali D Rishe, *Eminent Scholar and Professor, School of Computing and Information Sciences. Director of the High Performance Database Research Center at FIU (HPDRC) and of the NSF Industry-University Cooperative Research Ctr. for Adv. Knowledge Enablement (I/UCRC)*

Raul Gonzalez, *Professor of psychology, psychiatry, and immunology; Chairperson, Department of Psychology, Director of the Substance Use and HIV Neuropsychology Lab. Affiliated with the Center for Children and Families and with the Center for Imaging Science*

Joseph S. Raiker, *Associate Professor, Psychology, Founding Director, Program for Attention, Learning, and Memory -PALM*

Shanna L. Burke*, Assistant Professor, School of Social Work*

Laboratory and Infrastructure Manager

Niovi Rojas*, Research Specialist and Manager of the Computational Infrastructure and Instrumentation*

Consultants

Ranjan Duara, *Medical Director, Wien Center for Alzheimer's Disease and Memory Disorders, Mount Sinai Medical Center*

David Loewenstein, *Director of the Center for Cognitive Neuroscience and Aging and Professor of Psychiatry and Behavioral Sciences, University Miami Miller Med School.*

Prasanna Jayakar, *Founding Chair, Brain Institute, Nicklaus Children Hospital*

William D. Gaillard, *Children's National Medical Center, George Washington Univ., and Georgetown Univ. Director of the Comprehensive Pediatric Epilepsy Program and the Associate Director of the Children's Research Institute's Center for Neuroscience Research at CNMC*

Ilker Yaylali, *Professor*, *Neurology, Oregon Health and Science University.*

Alberto Pinzon, *Director, Epilepsy Program Baptist Hospital*

Sarah Hug, *Program Evaluator, Director at Colorado Evaluation & Research Consulting, Boulder, Colorado.*

Center for Diversity and Student Success in Engineering and Computing (CD-SSEC)

Andres Tremante, *Director and University Instructor, Mechanical & Materials Engineering*

Andrew Green, *Associate Director*

Francisco Fins, *Program Director, ENLACE*

Julieta Vallejos, *Program Coordinator*

Kristian Cosculluela, *Program Assistant, ENLACE*

South Florida's distinction as a multi-cultured, multi-lingual region has long been a diverse source of talent for FIU, particularly in the College of Engineering and Computing. In response to the challenge of attracting this diverse community to science and engineering, the College of Engineering and Computing has created a special center for Diversity in Engineering and Computing.

The mission of the Center for Diversity and Student Success in Engineering and Computing (CD-SSEC) is to provide prospective and current students of the college with opportunities and services that will enhance their academic experiences and increase their rate of success in the school and their future careers. The Center will support the college through recruitment, retention and enrichment programs, such as mentorship and peer-to-peer tutoring, undergraduate research opportunities, dual enrollment, and pre-college outreach activities. Currently the Center is actively engaged in a number of special programs as a service to the community and the University:

Florida Action for Minorities in Engineering (FLAME) This is a cooperative program between Miami Coral Park Senior High School and Florida International University aimed at introducing the profession of engineering to high school students, and to identify, select, enroll, and retain minority students in the engineering field. High School students participate in their senior year, and also register for dual enrollment classes at FIU.

Florida/Georgia Louis Stokes Alliance for Minority Participation (FGLSAMP) This is a National Science Foundation funded program in association with Florida Agricultural and Mechanical University (FAMU), the leading institution. This program focuses on engineering, math chemistry, biology, physics, and computer science undergraduate students. Participants receive scholarships, during the entire academic year based on high GPA and being a full time student. Opportunities for summer internships are available.

ENLACE/MIAMI The Children Trust This program is funded by The Children Trust and provide after school and summer programs for 400 children (ages 10-14) residing in the Sweetwater, Doral and Kendall areas. The after school program will offer literacy support through individualized software-based increasing intervention, social skills development, and health fitness education. The summer program will offer students the unique opportunity to attend classes on a university campus.

Opportunities for Undergraduate Research and Scholarship (OURS) Coordinated and overseen by the Center for Diversity and Student Success within the College of Engineering and Computing, the Opportunities for Undergraduate Research and Scholarship (OURS) program serves as the umbrella organization for all undergraduate research within the college. OURS' mission is to foster a culture of research excellence within the College of Engineering and Computing that is committed to promoting opportunities for all students, especially those from underrepresented populations and disadvantaged backgrounds. A tiered program model with financial incentives encourages curriculum-related work opportunities and greatly reduces the need for students to find off campus jobs that do not align with their long-term career goals.

Engineers on Wheels (EOW) The Engineers on Wheels program is an initiative which brings FIU engineering students to South Florida K-12 schools. EOW provides students with hands-on activities and engineering experiments while exposing them to career opportunities in STEM (science, technology, engineering and math).The program features grade-appropriate, interactive lessons and presentations led by FIU students and overseen by FIU faculty. Subjects include mechanical and materials engineering, computer science and information technology, biomedical engineering, civil and environmental engineering, construction and engineering management, and electrical and computer engineering.

Engineering Expo In its 20th year, the Engineering Expo is the college's premiere community outreach event. In 2020, the college welcomed more than 1,606 K-12 students from Miami-Dade and Broward County schools (elementary, middle, and high schools) to the FIU Engineering Center to engage FIU student organizations, researchers, and staff, and to discover the endless possibilities of pursuing a degree in engineering or computer science. In 2020, 25 labs and 24 student organizations represented each major within the college, and provided K-12 students with tours, demonstrations, and hands-on activities.

Center for the Study of Matters at Extreme Conditions (CeSMEC)

Jiuhua Chen, *Director and Professor, Mechanical and Materials Engineering*
Zhe Cheng, *Associate Professor, Mechanical and Materials Engineering*
Irina Chuvashova, *Assistant Professor, Chemistry and Biochemistry*
Vadym Drozd, *Research Assistant Professor*
Bilal El-Zahab, *Associate Professor, Mechanical and Materials Engineering*
Nezih Pala, *Associate Professor, Electrical & Computer Engineering*
Andriy Durygin, *Research Engineer*
Chunlei (Peggy) Wang, *Professor, Mechanical and Materials Engineering*

Mission: The Center for the Study of Matter at Extreme Condition is a multidisciplinary center that integrates physics, chemistry, geosciences with materials engineering. The center is committed to facilitation of fundamental research through convergence related to materials properties at extreme environments, *i.e.* high temperature (thousands of degrees) and high pressure (millions of atmospheres), and to delivery of quality research and education.

All materials are subject to three fundamental variables – chemical composition, temperature and pressure, which alter all states of matter. CeSMEC offers experimental infrastructure enabling research and education of materials by tuning the variables separately or simultaneously. Materials are studied under such conditions with x-ray, spectroscopy as well as different processing techniques.

Areas of research at CeSMEC include, minerals, superhard materials, electronic materials, ceramics, energy storage materials, metals/alloys, etc.

Distributed Multimedia Information Systems Laboratory (DMIS)

Shu-Ching Chen, *Director and Professor, School of Computing and Information Sciences*

The mission of the Distributed Multimedia Information System Laboratory (DMIS) is to conduct leading edge research in multimedia database systems, data mining, networking and wireless, GIS and Intelligent Transportation Systems. Other research areas of this effort include Multimedia Communications and Networking, Digital Library, 3D Animation, and Distributed Computing.

Division of External Programs (DEP)

Natalie Nunez*, Program Director*
Kang K. Yen, *Director of International Programs, Business Development and Professor of Electrical and Computer Engineering*

The **Division of External Programs (DEP)** develops, promotes and manages academic programs offered under the rubric of international programs, professional graduate programs, and continuing education all within the **College of Engineering and Computing**.

The program director and staff of DEP work with department chairs and faculty members to identify global partners and institutions interested in providing their undergraduate and/or graduate students an opportunity to complete their studies at FIU; manage continuing education courses that are taught by experts in their respective fields; develop, promote and manage professional graduate programs; as well as identify any new markets or opportunities that contribute to the overall credit and non-credit enrollment for the College of Engineering and Computing.

International Programs

The international dual-degree program allows undergraduate students from foreign universities to complete approximately 75% of their curriculum at their home institution and the remaining 25% at FIU and receive their undergraduate degree from both institutions. All participants in the program proceed as a cohort through a lock-step curriculum of the selected courses. The local faculty from the host country is also involved in teaching to enrich the program by integrating the economic, cultural, social, political and legal issues of the host country in the curriculum.

Graduates from international partner universities interested in pursuing a graduate degree from FIU may apply to the graduate pipeline program. Students complete anywhere between 30 – 36 credit hours (depending on the program) and upon completion of the degree requirements, receive a master's degree from FIU.

The overseas programs focus on the demonstrated educational needs of selected industrial sector(s) in the host country. These programs are offered in collaboration with a sponsor which is a reputed university or institution that can support the delivery of the program by providing appropriate infrastructure facilities like classrooms, library and computer laboratories. The programs are designed in consultation with the faculty of the sponsor and the industry representatives in the host country. The goal of

the overseas programs is to complement the existing academic programs offered by the sponsoring institution.

Continuing Education Courses

Our continuing education courses are designed to meet the licensing and certification needs of individual professionals in the engineering and construction fields. The programs are delivered on-campus and/or at corporate sites. Currently, the College offers the following courses and programs: “Lean Six Sigma”, “Six Sigma Green Belt”, “Six Sigma Black Belt”, “Supply Chain Management”, and “Florida General Contractor’s Exam (GC) Review Course”.

Professional Graduate Programs

DEP offers professionals the ability to complete their master’s degrees in the fields of Engineering and Computing. Our programs are offered online and in-person. Our programs are specifically designed for working professionals who aspire to a graduate degree without interrupting their careers.

Engineering Information Center (EIC)

Steven Luis, *Executive Director*

Create a technology that will help save lives or create your own website, simulate an electronic circuit, design a bridge, or just browse the Internet. The possibilities are endless at Engineering Information Center.

EIC helps faculty, scientists, researchers, and students to conduct cutting edge research and work on system designs, networking, scientific visualization, 3D Modeling, simulations, virtual reality, computer animation, and other computer and software applications.

The Center manages an array of Novell, Windows, and UNIX network servers that provide faculty, staff and students with the capacity to share valuable resources; therefore, fostering an atmosphere where collaboration and instruction grow with a synergy that is unique. Beyond the college community, EIC participates in sponsoring special outreach programs for the Miami-Dade County Public Schools by exposing young minds to latest technologies.

EIC is also home to The Graphic Simulation Laboratory with focus on Scientific Visualization, 3D Computer Modeling, and Virtual Reality, which have helped researchers to develop a wide array of technologies, strategies, and information designs. GSL has collaborated with NASA, The Center for Super Computing Applications, National Science Foundation, Computational Science Institute, Shodor Organization, Macromedia, and Kellogg Foundation, just to mention a few. From hardware to software support to 3D modeling of a heart valve, EIC delivers exceptional services with a personal touch.

Engineering Manufacturing Center (EMC)

Ibrahim Tansel, *Director and Professor, Mechanical and Materials Engineering*

Richard Zicarelli, *Senior Engineer II and Coordinator*

Engineering Manufacturing Center provides technical expertise in manufacturing to anyone in need of assistance. Typically the Center supports researchers, graduate and undergraduate students with projects requiring high-precision quality fabrication and requiring expert technical guidance. Undergraduate engineering students represent the largest group served. Students of all academic departments benefit directly through help with class projects, such as Senior Design (capstone) courses, critical components of all ABET accredited Engineering programs in the College. Other major undergraduate projects supported include the Mini-Baja, Mini-Submarine and Robot Competitions. Graduate students regularly request fabrication assistance with experimental devices, tools and fixtures. The Center’s main facility supports the College’s academic departments’ general fabrication needs, including equipment repair, assembly, fixturing, installation, etc. An auxiliary EMC-supervised machine shop is available for student hands-on project work.

The Center also provides technical services to the outside community such as entrepreneurial consulting in product design and development and sub-contract fabrication work. Companies served by the EMC range from entrepreneurial to the well-established, some of which include aerospace, automotive, marine, medical and consumer product manufacturers. The Center runs state-of-the-art CAD/CAM software and operates a diverse array of rapid prototyping equipment combined with CNC capabilities providing a wide variety of fabrication processes. In addition, the Center can perform inspection, measurement and reverse engineering capabilities through its automated measurement equipment.

For more information, contact the EMC by calling Mr. Richard Zicarelli (305) 348-6557 or Mr. Mario Sanchez (**sanchem@fiu.edu**), or refer to the center’s website at **http://www.eng.fiu.edu/emc/**.

Florida Center for Cyber Infrastructure Education and Research for Trust and Assurance

S. S. Iyengar, *Director and Ryder Distinguished University, Professor, School of Computing and Information Sciences*

Cyberspace, the ubiquitous collection of interconnected IP networks and hosts that has proliferated over the last two decades, has become the nervous system of the country. Healthy functioning of Cyberspace is essential for the proper operation of numerous critical infrastructures, such as telecommunication, energy and transportation. It is also necessary to support the ever-expanding business infrastructure, including commerce and banking. The increasing reliance on Cyberspace has been paralleled by a corresponding increase in the variety, frequency and impact of attacks from a range of assailants. Both commercial companies and government agencies face continuous and increasingly more sophisticated cyber-attacks ranging from data exfiltration and spear phishing to sophisticated worms and logic bombs. The targets include not only computer information systems, but also the network communication infrastructure and power grids. Moreover, commercial companies and government agencies are themselves engaging in information gathering whose implications for privacy are disturbing.
Therefore, there is an increasing need of a concerted and cooperative effort on the part of the government and the private sector to address these attacks and threats.

Research and education are the main ways to help detect, react, and reduce the impact of cyber threats and attacks. There is a dearth of educational cyber security programs at universities, despite a very strong demand for qualified graduates. Moreover, Miami's status as a gateway for international commerce, tourism, and immigration, especially with Latin America, makes it a particularly appropriate host location for a research and education consortium focusing on cyber infrastructure.

Our goal of this center is two-fold—first, to inspire a new generation of cyber research warriors and cyber savvy intelligence agents to take up the torch, to better understand our need for smart intelligence, and to defend the homeland. Since their work cannot be done alone, our second goal is to advance technology through the concept of subliminal contextual information in the production of subliminal contextual intelligence.

High Performance Database Research Center (HPDRC)

Naphtali Rishe, *Director and Professor, School of Computing and Information Sciences*

One of our research efforts is the High-Performance Database Research Center (HPDRC). HPDRC conducts research on such theoretical and applied issues as Internet-distributed heterogeneous databases, database design methodologies, database design tools, information analysis, multi-media databases, database languages, data compression, spatial databases, and data visualization. The Center also designs specific database systems for highly complex applications.

Industry-University Cooperative Research Center (I/UCRC) Center for Advanced Knowledge Enablement (CAKE)

Naphtali Rishe, *Director and Professor, School of Computing and Information Sciences*

The National Science Foundation's (NSF) FIU-FAU-Dubna Industry/University Cooperative Research Center for Advanced Knowledge Enablement (CAKE) was established to develop long-term partnerships among industry, academe and government. The Center is supported primarily by industry center members, with NSF taking a supporting role in its development, evolution, and core funding. The Center hosts the NSF "AIR" Ecosystem to Pipeline Research at FIU.

The Center's mission is to conduct industry-relevant studies and deployments in the representation, management, storage, analysis, search and social aspects of large and complex data sets, with particular applications in geospatial location-based data, disaster mitigation, healthcare, transportation, and town planning.

Lehman Center for Transportation Research (LCTR)

Mohammed Hadi, *Director and Professor, Civil and Environmental Engineering*
Albert Gan, *Deputy Director and Professor, Civil and Environmental Engineering*
Xia Jin, *Associate Professor, Demand Forecasting and Discrete Choice Analysis*
Priyanka Alluri, *Associate Professor, Traffic Safety*

The Lehman Center for Transportation Research (LCTR) at Florida International University was established in 1993 in honor of Congressman Bill Lehman and his tireless efforts to make South Florida a better place for all of us. The center's vision is to become a 'state-of-the-art' transportation research and training facility. LCTR is committed to serve and benefit our society by conducting research to improve mobility, hence the quality of life issues, develop partnerships in the transportation industry, and educate a multidisciplinary workforce to plan, manage and implement transportation systems.

Faculty, staff and students at LCTR are involved in research related to the planning, design, operation and maintenance of transportation systems, including intelligent transportation systems, transportation system management and operation (TSM&O), multi-resolution modeling and simulation, connected and automated vehicles, decision support systems, signal control, transportation system safety, shared mobility, electric vehicles, micro-mobility, public transportation, freight; as well as public policy, air pollution, and the application of geographic information systems and other advanced technologies such as machine learning/data mining, statistical analysis, optimization, and scientific visualization in transportation.

Motorola Nanofabrication Research Facility

Arvind Agarwal, *Distinguished Professor, Chairperson and Director, Mechanical and Materials Engineering*
Patrick Roman, *Assistant Director*

The first centralized facility of its kind in Florida, the Motorola Nanofabrication Research Facility is an open-access initiative in support of nano-scale devices, systems and materials research that encompasses a broad range of technologies and capabilities. The facility provides nanofabrication, analytical instrumentation, materials characterization and process-development laboratories for students, faculty and industrial researchers. This $15 million Research Facility is an integral part of the Advanced Materials Engineering Research Institute (AMERI), FIU's broader materials research program.

Harnessing the synergy inherent in the study and development of nanoscale technologies, the facility boasts:

- Specialized equipment required to develop new and novel fabrication techniques unique to the creation of functional materials and devices that are no greater than 100 nanometers (1,000 times smaller than the diameter of a human hair);
- A full complement of standard semiconductor processing equipment to leverage the capabilities of robust and proven techniques; and
- State-of-the-art analytical tools to study, and characterize these nano-sized devices, as well as the materials and processes used to make them.

The Nanotechnology Faculty Team
Arvind Agarwal, *Distinguished Professor, Chairperson and Director, Mechanical and Materials Engineering*
George Dulikravich, *Professor, Mechanical and Materials Engineering*
Jin He, *Associate Professor, Physics*
W. Kinzy Jones, *Emeritus Professor, Mechanical and Materials Engineering*
Cheng-Yu Lai, *Associate Professor, Mechanical and Materials Engineering*
Grover Larkins, *Professor, Electrical and Computer Engineering*
Chenzhong Li, *Professor, Biomedical Engineering*
Wenzhi Li, *Professor, Physics*
Anthony McGoron, *Associate Dean and Professor, Biomedical Engineering*
Daniela Radu, *Associate Professor, Director NASA-CRE2DO, Mechanical and Materials Engineering*
P.M. Raj, *Associate Professor, Biomedical Engineering*
Surendra Saxena, *Emeritus Professor, Mechanical and Materials Engineering*
Frank Urban, *Associate Professor, Electrical and Computer Engineering*
Yuriy Vlasov, *Instructor*
Chunlei (Peggy) Wang, *Professor, Mechanical and Materials Engineering*
Shekhar Bhansali, *Professor and Chairperson, Electrical and Computer Engineering*
***Nezih Pala**, Associate Professor, Electrical and Computer Engineering*

Science and Technology Center on Real-Time Functional Imaging (STROBE)

Jessica Ramella-Roman, FIU Site *Director*
Margaret Murnane, PI, University of Colorado Boulder

The STROBE NSF Science and Technology Center on Real-Time Functional Imaging is developing new functional imaging microscopes that enable functional multi-scale characterization of complex samples — from low-dimensional materials, nanostructured systems and devices, to emergent phenomena in quantum materials. These capabilities contrast with current single-mode, mostly static, approaches to imaging, which are too slow and inaccessible to close the loop between design, characterization and optimization of materials science and technology. STROBE is also integrating different photon- and electron-based imaging modalities with underpinning technologies – advanced algorithms, fast detectors, big data manipulation and hybrid/adaptive imaging.

The Vision of STROBE is to transform imaging science and technology of functioning nano-systems. The Mission of STROBE is to create powerful and broadly-applicable real-time nano-to-atomic scale imaging modalities to advance imaging science and increase access, that can be used to address grand challenges in science and technology, while building a diverse STEM workforce.

STROBE is part of the 2016 class of National Science Foundation Science & Technology Centers awarded in October 2016. STROBE brings together scientists and students from the University of Colorado at Boulder, the University of California at Los Angeles, the University of California at Berkeley, Fort Lewis College, Florida International University, and the University of California at Irvine. Several national laboratories, industries and international institutions are also partnering with STROBE.

Core Faculty
Jessica Ramella-Roman, *Biomedical Engineering*
Jin He, *Physics*
Andres Tremante, *Director of Education and Outreach*
Andrew Green, *Education and Outreach*

The Precise Advanced Technologies and Health Systems for Underserved Populations (PATHS-UP)

Jessica Ramella-Roman, FIU Site Director
Gerry Cote, Texas A&M Director

The goal of all NSF-ERC programs is to integrate engineering research and education with technological innovation to transform national prosperity, health and security.

The specific vision of our PATHS-UP ERC is to change the paradigm for the health of underserved populations by developing revolutionary and cost-effective technologies and systems at the point-of-care. The initial PATHS-UP technologies and systems are designed to help with chronic diseases, such as diabetes and cardiovascular disease, which are leading causes of morbidity and mortality world-wide. Chronic diseases are particularly devastating in underserved communities in the United States where they are contracted at a higher rate than the national average. In these underserved communities, chronic diseases are increasingly a major cause of disability, even for younger people, and lead to poor quality of life and high health care expenditures. Thus, the burden of chronic disease is a grand challenge that requires cost-effective technologies to reduce mortality rates, emergency room visits and hospitalizations, which disproportionately drive-up healthcare costs. Technologies are also needed to help prevent or delay the disease, reducing the incidence of secondary complications and enhancing life quality.

Thus, to accomplish our vision, the PATHS-UP mission is:
1) to engineer transformative, robust, and affordable, technologies and systems to improve healthcare access, enhance the quality of service and life, and reduce the cost of healthcare in underserved populations and
2) to recruit and educate a diverse group of scientists and engineers who are ready to lead the future in developing enabling technologies to improve health in underserved communities.

Our PATHS-UP ERC team is led by Texas A&M University, with partners from the University of California at Los Angeles, Rice University, and Florida International University. At Florida International University, the research focus will be concentrated on biochemical marker for cardiovascular disease, novel approach to enabling wearable technologies for individuals experiencing disability within the PATHS-UP communities, as well as novel wearable sensors for diagnosis of cardiovascular disease and diabetes.

Core Faculty
Peggy Wang, *Mechanical Engineering, Thrust 3*
Josh Hutchinson, *Biomedical Engineering, Thrust 1*
Nezhi Pala, *Electrical Engineering, Thrust 3*

Andres Tremante, *Director of Education and Outreach*
Andrew Green, *Education and Outreach*

Titan America Structures and Construction Testing Laboratory

Atorod Azizinamini, *Director, Vasant Surti Professor of Civil Engineering and Director, Moss School of Construction, Infrastructure and Sustainability.,*
David Garber, *Deputy Director and Associate Professor, Civil and Environmental Engineering,*
Armin Mehrabi, *Associate Professor, Civil and Environmental Engineering,*

The Titan America Structures and Construction Testing Laboratory was established in the Department of Civil and Environmental Engineering to provide hands-on educational experience for students; to research and development of innovative hurricane-resistant and durable construction materials, structural systems and components; to serve the construction industry; to contribute to the engineering community in South Florida, and to advance the safety, durability, and economy of our civil infrastructure.

The Titan America Structures and Construction Testing Laboratory was built through the help of a consortium of 21 industry partners who donated materials, services, and cash in excess of $250,000. It is one of the largest facilities in the State of Florida and is equipped with a full-scale structural testing system (FSST). The FSST consists of a 15 ft tall testing frame that stands above a 35 ft × 65 ft strong concrete floor with 4 ft thickness and 100,000 lbs capacity tie-downs on a 3 ft × 6 ft pattern. The steel frame is capable of testing full-scale structural members, such as a 65 ft bridge girder. The applied load is replicated using a fatigue rated tension/compression actuator that is capable of performing cyclic loading. In addition to the FSST, the SCL is also equipped with other material testing systems, including a universal testing machine, compression machine, and small-scale load frames.

Telecommunications and Information Technology Institute (IT2)

Niki Pissinou, *Founding Director and Professor, School of Computing and Information Sciences*

Florida International University (FIU) recognizes the need to nurture highly trained personnel for the nation's industry and business, develop research to support the rapidly expanding high-tech industry and become proactive in technology transfer. Thus, ensuring continued economic growth and prosperity in the region. In order to fully meet today's technological demands, FIU has established the Telecommunications and Information Technology Institute (IT^2). IT^2 promotes advanced multidisciplinary education and research focused on telecommunications and information technologies. IT^2's mission is to:

1. Deliver high quality telecommunications and information technology education and training.
2. Conduct and promote research to enhance Florida's role as a leader in telecommunications and information technology.
3. Offer training that is needed to foster business development and workforce preparedness.
4. Promote technology transfer to enhance the enabling technologies of the telecommunication and information technology industries.

In fulfilling its mission, IT^2 promotes multidisciplinary collaboration and serves as the catalyst to promote intellectual cross-fertilization among disciplines. This effort results in the synergistic enhancement of teaching and research, so critical in the telecommunications and information technology fields, where disciplinary barriers are falling and lines are blurred. An objective of the Institute is to infuse telecommunications and information technology content into the curriculum at all appropriate levels. To fill the urgent demand of industry, the institute is developing interdisciplinary telecommunication programs that provide certificate programs, Bachelors, Masters and Ph.D. degrees.

IT^2 constitutes an infrastructure that is viable for cutting edge research activities. Researchers at the institute conduct funded research and development targeted at solving complex problems conducive to the early identification of high impact opportunities. Of particular importance to the institute's research efforts is the emerging fusion of computing, communications and sensing technologies global wireless, optical and personal communications infrastructure and the ability to represent, store and access information to perform a variety of information related tasks. To provide an effective forum for original research results and to foster communication among researchers, industry leaders can collaborate on research, education, training, and re-engineering the telecommunications workforce of the future. The alliance provides effective ways to foster innovation to educate the workforce of the 21st century. In accordance, the institute provides technical assistance and applied research services to transfer acquired knowledge and technologies to the commercial sector. The IT^2 team can work with industrial organizations to tap into some technological innovations that drive the industry to its strategic advantage.

For more information, contact Dr. Niki Pissinou, the director of the Telecommunications and Information Technology Institute, at (305) 348-3987 or visit our Website at **www.it2.fiu.edu**.

Core Affiliated Faculy
Dr. Niki Pissinou, Founding *Director and Professor*
Dr. S.S. Iyengar, Co-Director and Professor
Dr. Deng Pan, - *Coordinator and Associate Professor*
Dr. Alex Afanasyev, *Assistant Professor*
Dr. Haidi Amin, *Assistant Professor*
Dr. Leornado Bobadilla, *Associate Professor*
Dr. Dongshen Luo, *Assistant Professor*
Dr. Viet Cuong Nguyen, *Assistant Professor*
Dr. Mo Sha, *Associate Professor*
Dr. Farhad Shirani, *Assistant Professor*
Dr. Ruimin Sun, *Assistant Professor*
Dr. Greg Reis, *Assistant Teaching Professor*
Dr. Kianoosh Boroojeni, *Assistant Teaching Professor*
Dr. Xuyu Wang, *Assistant Professor*
Dr. Yanzhao Wu, *Assistant Professor*

Affiliated and Research Faculty
Kang Yen, *Director and Professor, Electrical and Computer Engineering*
Jean Andrian, *Associate Chair and Associate Professor,*

Electrical and Computer Engineering
Shih-Ming Lee, *Professor of Practice, Engineering Management Program*
Osama Mohammed, *Associate Dean and Distinguished University Professor, Electrical and Computer Engineering*

Knight Foundation School of Computing and Information Sciences

Jason Liu, *Interim Director & Eminent Scholar Chaired Professor*
Alexander Afanasyev, *Assistant Professor*
Kemal Akkaya, *Professor*
Carlos Alonso, *Visiting Teaching Professor*
Hadi Amini, *Assistant Professor*
Kiavash Bahreini, *Associate Teaching Professor*
Antonio Bajuelos, *Associate Teaching Professor*
Toby S. Berk, *Professor Emeritus*
Janki Bhimani, *Assistant Professor*
J. Leonardo Bobadilla, *Associate Professor*
Kianoosh G. Boroojeni, *Assistant Teaching Professor*
Bogdan Carbunar, *Associate Professor*
Maria C. Charters, *Associate Teaching Professor*
Trevor Cickovski, *Associate Teaching Professor*
Peter Clarke, *Associate Professor*
Debra Davis, *Associate Teaching Professor*
Wenqian Dong, *Assistant Professor*
Mark Finlayson, *Interim Associate Director & Eminent Scholar Chaired Associate Professor*
Xudong He, *Professor*
Antonio Hernandez, *Assistant Teaching Professor*
S. S. Iyengar, *Distinguished University Professor*
Amin Kharraz, *Assistant Professor*
Bill Kraynek, *Professor Emeritus*
Christine Lisetti, *Associate Professor*
Dongsheng Luo, *Assistant Professor*
Patricia McDermott-Wells, *Associate Teaching Professor*
Masoud Milani, *Associate Professor*
Ananda Mondal, *Assistant Professor*
Giri Narasimhan, *Professor*
Jainendra K. Navlakha, *Professor*
Cuong Nguyen, *Assistant Professor*
Deng Pan, *Associate Professor*
Sergio Pisano, *Assistant Teaching Professor*
Niki Pissinou, *Professor*
Christian Poellabauer, *Professor*
Agoritsa Polyzou, *Assistant Professor*
Nagarajan Prabakar, *Associate Professor and Undergraduate Program Director*
Caryl Rahn, *Associate Teaching Professor*
Raju Rangaswami, *Eminent Scholar Chaired Professor*
Gregory Reis, *Assistant Teaching Professor*
Naphtali Rishe, *Professor*
Michael Robinson, *Associate Teaching Professor*
S. Masoud Sadjadi, *Associate Professor*
Fahad Saeed, *Associate Professor*
Mo Sha, *Associate Professor*
Gregory Shaw, *Associate Teaching Professor*
Joslyn Smith, *Associate Teaching Professor*
Tiana Solis, *Assistant Teaching Professor*
Ruimin Sun, *Assistant Professor*
Selcuk Uluagac, *Associate Professor*
Charlyne Walker, *Assistant Teaching Professor*
Xuyu Wang, *Assistant Professor*
Ahmad Waqas, *Assistant Teaching Professor*
Jill Weiss, *Teaching Professor*
Mark A. Weiss, *Distinguished University Professor and Associate Dean for Undergraduate Education*
Richard Whittaker, *Assistant Teaching Professor*
Yanzhao Wu, *Assistant Professor*
Ning Xie, *Associate Professor*

The Knight Foundation School of Computing and Information Sciences offers five Master of Science degrees and a Doctor of Philosophy degree. The Master of Science in Computer Science degree provides study in state-of-the-art computer applications as well as an introduction to the theoretical foundations of computer science. The Master of Science in Information Technology is intended to educate students in the technical aspects of information. The Master of Science degree in Telecommunications and Networking is intended to provide study in state-of-the-art telecommunications and networking technologies and management. The Master of Science in Cybersecurity includes student learning outcomes that address cybersecurity from several complementary perspectives. The Master of Science in Data Science provides broad and deep technical training in data science, with specialization in several key application areas of importance to industry. The Doctor of Philosophy in Computer Science is designed to provide study in all major areas of computer science while leading to the frontiers of knowledge in a chosen field of concentration.

Master of Science in Computer Science

Admission

The following are in addition to the University's graduate admission requirements:

1. A Bachelor's Degree or equivalent in Computer Science from an accredited institution. A degree in a related field is acceptable if the applicant shows evidence of computer science background suitable for entry into the master's program as judged by the Graduate Committee.
2. Foreign students whose native language is not English must score at least 550 on the paper-based (or 80 on iBT) in the Test of English as a Foreign Language (TOEFL).

Required Courses

1. Required coursework: 9 credits

COT 5407	Introduction to Algorithms	3
Choose two from the following:		
CEN 5011	Advanced Software Engineering	3
COP 5725	Principles of Database Management Systems	3
COP 5614	Operating Systems	3

2. Elective coursework

a. non-thesis option: 21 credits of elective courses
b. thesis option: 15 credits of elective courses and 6 credits of master's thesis

Elective courses can be selected from SCIS Graduate Course Offerings.

No grade below "C" will be accepted in any course taken to satisfy graduate program requirements.

Thesis Option

CIS 6970	Thesis	6

After completion of the other required courses, the student must conduct a research thesis. The topic must first be approved by the faculty member who will supervise the

research and then by the Thesis Committee. The thesis will be accepted only after being read and approved by a Thesis Committee. An oral defense is required before the Thesis Committee.

Combined BS/MS in Computer Science Degree Pathway

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Current enrollment in the Bachelor's Degree program in Computer Science at FIU.
2. Completed at least 75 credits of coursework.
3. Current GPA must be 3.3 or higher.
4. Complete the separate Combined Degree Pathway application, including signed approval by the director or designee from the graduate program.

General Requirements

The FIU Bachelor's degree in Computer Science must be awarded before the Master's degree.

Coursework

Required Courses

COT 5407	Introduction to Algorithms	3
Choose two from the following:		
CEN 5011	Advanced Software Engineering	3
COP 5725	Principles of Database Management Systems	3
COP 5614	Operating Systems	3

Elective

7 courses selected from the SCIS Graduate Course Offerings.

No grade below "C" will be accepted in any course taken to satisfy graduate program requirements.

Overlap

Up to 4 courses (12 credits) may be used in satisfying both the Bachelor's and Master's degree requirements. All overlapping courses must be approved by both graduate and undergraduate program directors before students are enrolled in such courses.

The courses must be regular 5000-level computer science graduate courses intended for graduate majors.

Master of Science in Cybersecurity

The MS-Cybersecurity program will include student learning outcomes that address cybersecurity from several complementary perspectives:

1. Students will gain practical, hands-on skills in current "best practices" in cybersecurity, such as configuring firewalls and writing secure web applications, while also understanding their limitations.
2. Students will gain deep knowledge of the principles of the emerging science of cybersecurity, enabling them to understand and even design solutions with rigorously-provable security guarantees.
3. Students will gain understanding of the broader human context of cybersecurity, enabling them to consider and address its social, economic, political, and psychological implications.
4. Students will gain deeper knowledge of specific areas in cybersecurity through their selection of elective courses.

Admission Requirements

The following are in addition to the University's graduate admission requirements.

1. A Bachelor's degree from an accredited institution in Computer Science, Computer Engineering, Information Technology, or a similar discipline.
2. Foreign students whose native language is not English must score at least 550 on the paper-based (or 80 on iBT) in the Test of English as a Foreign Language (TOEFL).

Required Courses

The students are required to earn 30 credits from 10 courses, or 8 courses and a thesis. The courses include 3 core courses, 4 concentration area courses chosen from one of two concentration areas, and either 3 or 1 elective courses chosen from an approved set of electives.

Core Courses (9 credits)

CIS 5370	Principles of Cybersecurity	3
CIS 5371	Introduction to Cryptography	3
CIS 5374	Security and Privacy: Attacks and Defenses	3

Concentration Area Courses (12 credits)

Students need to choose one concentration area (Systems Concentration Area or Applications Concentration Area) and choose 4 courses from that area. Students who choose the Systems area will study security and privacy issues in computer, network, and information systems. Students who choose the Applications area will study various applications of cybersecurity, as well as security policy, compliance, and management issues

Elective Courses (9 credits)

a. Non-thesis option: 9 credits of elective courses
b. Thesis option: 3 credits of elective courses and 6 credits of master's thesis

Thesis Option

CIS 6970	Thesis	6

List of courses is maintained by the School of Computing and Information Sciences and the Department of Electrical and Computer Engineering.

Cybersecurity 4+1 Pathway

With the KFSCIS Graduate Advisor's approval, students from undergraduate majors from the KFSCIS as well as other Colleges and Disciplines may apply to the Cybersecurity 4+1 Degree Pathway. If accepted, students will be allowed to take up to 12 credits of the KFSCIS advisor approved graduate courses which will apply toward both their undergraduate and their master's degree programs.

The admissions requirements are:

1. Student must meet the pre-requisites for the MS in Cybersecurity program.
2. Current enrollment in a bachelor's degree program at FIU
3. Completed a minimum of 75 undergraduate credits
4. Current GPA of 3.3 or higher
5. Complete the online application and be accepted by the director, coordinator or designee of the graduate program.

Master of Science in Data Science and Artificial Intelligence

The Master of Science in Data Science and Artificial Intelligence is an interdisciplinary program that provides broad and deep technical training in data science and artificial intelligence, drawing on faculty expertise from five different colleges across the FIU campus, allowing for specialization in several key application areas of importance to industry, and training students from a wide variety of disciplines. The program is aimed at students with sound analytical skills holding a Bachelor's degree in Computer Science, Computer Engineering, Statistics, Healthcare Management, Management Information Systems, Hospitality Management, or related disciplines. The program will have a common core involving four courses in Computing and Statistics plus a Capstone course. The Elective courses are offered as separate specialization tracks to prepare students to become data scientists in areas such as Artificial Intelligence, Computational Data Analytics, Business Data Analytics, Public Policy Analytics, and Biostatistics Data Analytics. The program will prepare students with professional experience for the marketplace. The Capstone course will pursue a discipline-specific and industry-relevant project in data analytics.

Admissions Requirements

The following requirements are in addition to the University's graduate admission requirements.

1. Bachelor's degree in a discipline appropriate for the specialization sought. For example, a specialization in **Computational Data Analytics** or Artificial Intelligence requires a Bachelor's degree in Computer Science, Computer Engineering, Information Technology, Mathematics, Statistics, or a related discipline. Students seeking to specialize in other tracks would require an appropriate Bachelor's degree.
2. GRE general test score with a minimum quantitative score of 148.
3. Three letters of recommendation

Required Courses

Students are required to complete 30 credits of graduate level courses. Included in the program are 12 credits of core courses, 15 credits of elective courses, and 3 credits of a capstone course spread out over two semesters.

Core Coursework (12 credits)

Students must complete these four courses.

CAP 5768	Introduction to Data Science	3
COP 5771	Principles of Data Mining	3
STA 6244	Data Analysis I (or equivalent)	3
	or	
PHC 6052	Biostatistics I	3
	or	
QMB 6357	Business Statistical Analysis	3
CAP 5602	Introduction to Artificial Intelligence	3

Required Capstone Course (3 credits)

Students in each track must complete three credits of capstone course involving a data analytics project.

IDC 6940	Capstone in Data Science	1+2 (spread over two semesters)

Business Analytics track students may choose:

ISM 6307	Management of the Information Systems Function	3

Specialization Elective Courses (15 credits)
Students must complete any five courses from one of the specialization tracks listed below. The list of courses is maintained by the unit that houses the track.

Artificial Intelligence (Knight Foundation School of Computing and Information Sciences)

Computational Data Analytics (Knight Foundation School of Computing and Information Sciences)

Business Analytics (Dept. Information Systems and Business Analytics)

Biostatistics Data Analytics (Dept. Biostatistics)

Public Policy Analytics (Dept. of Public Policy and Administration)

Master of Science in Data Science and Artificial Intelligence - Artificial Intelligence Track

Within this track, students with computing majors can readily design course sequences that help them Artificial Intelligence or Machine Learning.

Choose 5 from the list:

CAP 5109	Advanced HCI
CAP 5507	Game Theory
CAP 5510C	Introduction to Bioinformatics
CAP 5610	Introduction to Machine Learning
CAP 5640	Graduate Introduction to Natural Language Processing
CAP 5627	Affective Intelligent Agents
CAP 6619	Advanced Topics in Machine Learning
CEN 5120	Expert Systems
EEL 5820	Digital Image Processing
EEL 5813	Neural Networks-Algorithms and Applications
STA 6247	Data Analysis II

	or
PHC 6091	Biostatistics II

Master of Science in Data Science and Artificial Intelligence – Computer Data Analytics Track

Within this track, students with computing majors can readily design course sequences that help them specialize in Bioinformatics, Medical Informatics, Financial computing, Network Traffic Analysis, Computing Forensics, Big Data algorithms, and much more.

Choose 5 from the list below

CAP 5109	Advanced Human Computer Interaction
CAP 5510C	Introduction to Bioinformatics
CAP 5610	Introduction to Machine Learning
CAP 5640	Graduate Introduction to Natural Language Processing
CAP 5738	Data Visualization
CAP 6776	Advanced Topics in Information Retrieval
CAP 6778	Advanced Topics in Data Mining
CEN 5082	Grid Enablement of Scientific Applications
CIS 5372	Fundamentals of Computer Security
CIS 5374	Information Security and Privacy
CIS 6931	Special Topics: Advanced Topics in Information Processing
COP 5725	Principles of Database Management
COP 6727	Advanced Database Systems
COT 6405	Analysis of Algorithms
COT 6936	Topics in Algorithms
TCN 6420	Modeling and Performance Evaluation of Telecommunications Networks
EEL 6803	Advanced Digital Forensics Engineering (taught as special topics course)
STA 6247	Data Analysis II
	or
PHC 6091	Biostatistics II
STA 6636	High Dimension Data Analysis
EEL 5820	Digital Image Processing
EEL 5813	Neural Networks- Algorithms and Applications

Data Science 4+1 Degree Pathway

With their advisor's approval, students from all undergraduate majors including Computer Science, Information Systems and Statistics may apply to the Data Science 4+1 degree pathway. If accepted, students will be allowed to take up to 12 credits of graduate data science courses which will apply towards both their undergraduate degree requirements and the master's degree program in data science.

The admission requirements are:

1. Current enrollment in an approved bachelor's degree program at FIU.
2. Completed 75 credits.
3. Current GPA must be 3.3 or higher.
4. GRE quantitative score of 148 or higher.
5. Completed prerequisites for the master's in Data Science program or demonstrated competencies in the specialization areas (the latter option requires approval by the graduate program director of the appropriate specialization area)
6. Complete the separate 4+1 pathway application, including signed approval by the director or designee from the graduate program.

Master of Science in Information Technology

The Master of Science in Information Technology is intended to educate students in the area of technical aspects of Information. It provides an emphasis on software technology, database technology, and security technology. The program is ideally suited for those who wish to obtain a higher level degree in Information Technology, and seek employment in the IT industry.

Admissions Requirements

The following are in addition to the University's graduate admissions requirements.

1. Bachelor's degree from an accredited institution in Information Technology, Computer Science, Computer Engineering, or a similar field or a Bachelor's degree in any field plus 3 years of Information Technology work experience.
2. Foreign students whose native language is not English must score at least 550 on the paper-based (or 80 on iBT) in the Test of English as a Foreign Language (TOEFL).

A student's GPA and required test scores will be considered as minimum requirements for admission. The academic background of each student shall be analyzed to determine if there is need for remedial courses in addition to the required curriculum. Students are also required to comply with all course prerequisites.

Required Courses

Students in the Master of Science in Information Technology program will be required to take 30 credits of graduate level courses. Included in the program are 9 credits of Information Technology core courses, 6 credits that form a track, and 15 credits of Information Technology elective courses.

Core Coursework (9 credits)

CEN 5087	Software and Data Modeling
CIS 5372	Fundamentals of Computer Security
CIS 5027	Computer Systems Fundamentals

Track Courses (6 credits)

Student must choose one track

Software Track

The software track prepares students with fundamental methods and cutting-edge technologies for developing and maintaining software systems. Students graduating from the software engineering specialization will have a thorough knowledge of the process and major techniques for modeling, designing, and analyzing software systems. The graduates of this track will be well-prepared to undertake major software systems development projects from major software corporations such as Motorola, Siemens, and IBM.

Students must choose two courses from a list of courses maintained by the school.

System Administration Track
The System Administration track prepares the student to be able to install, support, and maintain servers or other computer systems, and planning for and responding to service outages and other problems. Other duties may include scripting and basic programming, setting up custom operating system environments, project management for systems-related projects, supervising or training computer operators, and being the consultant for computer problems beyond the knowledge of technical support staff.

Students must choose two courses from a list of courses maintained by the school.

Security Track
The security track will equip students with fundamental knowledge and skills in information security and privacy, system security, and network security to they become highly qualified workforce in information technology fields.

Students must choose two courses from a list of courses maintained by the school.

Electives (15 credits)
Students must choose any four graduate level courses offered by the Knight Foundation School of Computing and Information Sciences, with the exception of CGS 6834 and COP 6007. Three credits can be earned in either CIS 5900 or CIS 5910, but not both. With the approval of the Graduate Program Director, one course not appearing on this list can be substituted for an elective.

Master of Science in Telecommunications and Networking

The Master of Science in Telecommunications and Networking is intended to educate individuals seeking employment with hardware and/or software companies, service providers, large user organizations, or telecommunications regulatory agencies as well as for those who are employed by these companies/organizations and wish to obtain formal, higher-level, specialized degree in Telecommunications and Networking. Telecommunication and Networking students learn how to lead in the ever changing environment of real-time global information networking, telecommunications, wireless and optical strategies and how to amplify business value through communications, technologies and systems. All courses in the program are categorized under the five following areas. SCIS offers thesis and non-thesis options for the Master's Degree.

Admissions Requirements

1. Bachelor's degree in a related field from an accredited institution.
2. Foreign students whose native language is not English, must score at least 550 on the paper-based (or 80 on iBT) in the Test of English as a Foreign Language (TOEFL).

Graduate Requirements

1. Maintain an overall GPA of at least 3.0. No grade below "C" will be accepted in any course taken to satisfy graduate program requirements.
2. Completion of 30 semester hours of graduate level in three categories:
   - 15 credits of required courses
   - 6 credits of either thesis or courses from any one focus area
   - 9 credits of electives

Required Courses (breadth)
All students must complete the following five courses:

TCN 5030	Computer Communications and Networking Technologies
TCN 6430	Networks Management and Control Standards
TCN 6275	Mobile Computing
TCN 5080	Secure Telecommunications Transactions (or CIS 5372)
TCN 5640	Telecommunications Enterprise Planning and Strategy

One Focus Area (depth)
Students in the non-thesis option must select two courses from one focus area that aligns with their backgrounds and interests. Areas include but are not limited to software, communications, policy/legal issues, wireless and security. These areas are designed to serve a wide constituency of students. The list of focus areas and acceptable courses are maintained by the school.

Electives
Three additional courses offered by the Knight Foundation School of Computing and Information Sciences (to bring to 30 credits), including any above course or TCN-prefix course not otherwise used to the satisfy focus requirement. The list of acceptable courses is maintained by the School.

Combined BS in Electrical Engineering/MS in Telecommunications and Networking Degree Pathway

Students who pursue a BS degree and are in their junior year, with at least a 3.3 GPA on both overall and upper division courses may apply to enroll in the combined BS/MS pathway. To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees. In addition to the admission requirements of the combined BS/MS pathway, students must meet all the of the University's graduate admissions requirements.

Students enrolled in the pathway may count up to six credit hours of Telecommunications and Networking graduate courses as credits for both the BS and MS degrees. The combined BS/MS pathway has been designed to be a continuous enrollment pathway. During

this combined BS/MS pathway, upon completion of all the requirements of the undergraduate program, students will receive their BS degrees. Students in this pathway have one year to complete the master's degree after receipt of the bachelor's degree. Students who fail to meet this one year post B.S. requirement or who elect to leave the combined pathway at any time and earn only the BS degree will have the same access requirements to regular graduate programs as any other student, but will not be able to use the six credits in both the bachelor's and master's degrees.

For each of the graduate courses counted as credits for both BS and MS degree, a minimum grade of "B" is required. Students enrolled in the pathway may count up to six credit hours of Telecommunications and Networking graduate courses toward the elective BSEE requirements as well as toward the MS in Telecommunications and Networking degree. Only graduate courses with formal lectures can be counted for both degrees. The students are responsible for confirming the eligibility of each course with the undergraduate advisor.

Students interested in the pathway should consult with the undergraduate advisor on their eligibility to the pathway. The students should also meet the graduate advisor to learn about the graduate program and available courses before completing the application form and submitting it to the undergraduate advisor. Applicants will be notified by the department and the University Graduate School of the decision on their applications.

Doctor of Philosophy in Computer Science

The following are in addition to the University's graduate admission requirements:

1. A baccalaureate or master's degree in Computer Science, or equivalent degree in a related field as judged by the School's Graduate Committee.
2. For students without a Master's degree in a related field: A minimum of a 3.2 average on all upper division work and acceptable courses in Calculus and Statistics.
3. For students with a Master's degree in a related field: A minimum of a 3.0 average on all upper division work and acceptable courses in Calculus and Statistics, and a minimum of a 3.3 average in related graduate work.
4. Foreign students whose native language is not English must score at least 550 on the paper-base (or 80 on iBT) in the Test of English as a Foreign Language (TOEFL). TOEFL within the past two years.
5. GRE (General test) GRE must have been taken within the past five years.
6. Three letters of recommendation from persons in a position to judge the applicant's potential for advanced graduate study in computer science.

Required Courses

All students must complete the following three courses and receive a grade of 'B' or higher in each.

COP 5614	Operating Systems	3
	or	
TCN 5445	Telecommunication Network Programming	3
COT 5310	Theory of Computation I	3
	or	
TCN 5421	Theory of Network Computation	3
COT 6405	Analysis of Algorithms	3

No grade below "C" will be accepted in any course taken to satisfy graduate program requirements.

Other Requirements

1. The student must pass at least seven elective courses, for a total of 30 semester credit hours of course work. At least four of the seven elective courses must be distinguished and specially marked Ph.D. level courses. The acceptable elective courses and distinguished Ph.D. level courses can be found in a list maintained and published by the School. In addition, the student must also earn at least 15 dissertation credit hours and satisfy the School's seminar attendance requirement. In total, 75 credits beyond the bachelor's degree are required.
2. The student must pass the Qualifying Examination, which is an examination designed to ensure that the student has competency in core computer science topics.
3. The student must pass the Preliminary Examination, which is an oral examination of his or her dissertation proposal.
4. The student must write a dissertation on his or her research and successfully defend it orally in the Dissertation Defense.
5. The student must spend at least one academic year in full-time residence. Normally, this will be after passing the Qualifying Examination.

For additional information and for specific rules and regulations relating to the graduate program, please refer to the web site, (**http://www.cis.fiu.edu/programs/grad/**) or write to:

Graduate Program Director
Knight Foundation School of Computing and Information Sciences,
Florida International University
Modesto A. Maidique Campus
Miami, Florida 33199

Course Descriptions

Definition of Prefixes

CAP-Computer Applications; CDA-Computer Design/Architecture; CEN-Computer Software Engineering; CGS-Computer General Studies; CIS-Computer Science and Information Systems; CNT-Computer Networks; COP-Computer Programming; COT-Computing Theory; TCN-Telecommunications; IDC-Interdisciplinary Computing

CAP 5011 Multimedia Systems and Applications (3). Course covers organization of multimedia systems, data representation, quality of service, scheduling algorithms, synchronization and tele-communication of multimedia streams. Prerequisite: COP 4610.

CAP 5109 Advanced Human-Computer Interaction (3). Fundamental concepts of human-computer interaction, cognitive models, user-centered design principles, evaluation techniques, and emerging technologies in various contexts and domains.

CAP 5507 Game Theory (3). Game representations, solution concepts, algorithms & complexity, repeated games, learning, auctions, voting application to many disciplines. Familiarity with mathematical proofs would be helpful.

CAP 5510C Introduction to Bioinformatics (3). Introduction to bioinformatics; algorithmic, analytical and predictive tools and techniques; programming and visualization tools; machine learning; pattern discovery; analysis of sequence alignments, phylogeny data, gene expression data, and protein structure. Prerequisites: COP 3530, or equivalent and STA 3033 or equivalent.

CAP 5602 Introduction to Artificial Intelligence (3). Presents the basic concepts of AI and their applications to game playing, problem solving, automated reasoning, natural language processing and expert systems. Prerequisite: COP 3530.

CAP 5610 Introduction to Machine Learning (3). Decision trees, Bayesian learning reinforcement learning as well as theoretical concepts such as inductive bias, the PAC learning, minimum description length principle. Prerequisite: Graduate standing.

CAP 5617 Distributed Machine Learning (3). Distributed Machine Learning for CS graduate students, including algorithms, efficient learning and computing tools, and real-world applications. Prerequisites: CAP 4612 or CAP 5610 (or instructor permission).

CAP 5622 Machine Learning Techniques & Application (3). Practical introduction to Machine Learning: tools for Supervised/Unsupervised Learning, Reinforcement Learning, Best Practices/Practical Applications, Cloud Deployment of ML models. For non-CS majors.

CAP 5627 Affective Intelligent Agents (3). Design and implementation methods using artificial intelligence (AI) techniques, human-computer interaction (HCI) principles, emotion theories; applications, e.g. health informatics, education, games. Prerequisites: Graduate standing or permission of the instructor.

CAP 5640 Graduate Introduction to Natural Language Processing (3). The concepts and principles of computer processing of natural language, including linguistic phenomena, formal methods, and applications. Students will conduct an independent research project. Prerequisites: M.S. or Ph.D. standing or permission of the instructor.

CAP 5701 Advanced Computer Graphics (3). Advanced topics in computer graphics: system architecture, interactive techniques, image synthesis, current research areas. Prerequisites: COP 3530 and CAP 3710 or equivalent, or by permission. This course will have additional fees.

CAP 5738 Data Visualization (3). Advanced class on data visualization principles and techniques. Students propose, implement, and present a project with strong collaborative and visual components.

CAP 5768 Introduction to Data Science (3). Foundations of databases, analytics, visualization and management of data. Practical data analysis with applications. Introduction to Python, SQL, R, and other specialized data analysis toolkits. Prerequisites: STA 3164 or equivalent.

CAP 5769C Practical Data Science (3). Topics will include: data collection and processing, data visualization and presentation, statistical model building using machine learning, and big data techniques for scaling these methods. Prerequisite: M.S. or Ph.D. standing or permission of the instructor. Corequisite: None. M.S.& Ph.D. in CS students may not take this course for their degrees.

CAP 5771 Principles of Data Mining (3). Introduction to data mining concepts, knowledge representation, inferring rules, statistical modeling, decision trees, association rules, classification rules, clustering, predictive models, and instance-based learning. Prerequisites: COP 4710 and STA 3033.

CAP 6619 Advanced Topics in Machine Learning (3). Advanced course on machine learning principles and techniques. Students propose, implement, and present a collaborative project with advanced machine learning techniques. Prerequisite: CAP 5610.

CAP 6736 Geometric Modeling and Shape Analysis (3). Techniques for 2D/3D geometric modeling and analysis, including representation, reconstruction, processing, modeling and shape analysis, and applications in science and engineering. Prerequisites: SCIS graduate standing or by permission of the instructor.

CAP 6776 Advanced Topics in Information Retrieval (3). Information Retrieval (IR) principles including indexing and searching document collections, as well as advanced IR topics such as Web search and IR-style search in databases. Prerequisite: COP 5725.

CAP 6778 Advanced Topics in Data Mining (3). Web, stream data, and relational data mining, graph mining, spatiotemporal data mining, privacy-preserving data mining, high-dimensional data clustering, social network, and linkage analysis. Prerequisite: CAP 5771 or permission of the instructor.

CDA 5655 Virtualized Systems (3). Topics include the concepts and principles of virtualization and the mechanisms and techniques of building virtualized systems, from individual virtual machines to virtualized networked infrastructure. Prerequisites: COP 4610 or permission of the instructor.

CDA 6939 Special Topics: Advanced Topics in Computer Architecture (3). This course deals with selected special topics in computer architecture. Prerequisite: Permission of the instructor.

CEN 5011 Advanced Software Engineering (3). This course deals with the design of large scale computer programs. Included are topics dealing with planning design, implementation, validation, metrics, and the management of such software projects. Prerequisite: CEN 4010.

CEN 5064 Software Design (3). Study of object-oriented analysis and design of software systems based on the standard design language UML; case studies. Prerequisite: CEN 5011.

CEN 5076 Software Testing (3). Tools and techniques to validate software process artifacts: model validation, software metrics, implementation-based testing, specification-based testing, integration and systems testing. Prerequisites: CEN 4010 or CEN 5011.

CEN 5079 Software Vulnerabilities and Security (3). Development of applications that are free from common security vulnerabilities, such as buffer overflow, SQL injection, and cross-site scripting attacks. Emphasis is on distributed web applications. Prerequisite: Graduate standing.

CEN 5082 Grid Enablement of Scientific Applications (3). Fundamental principles and applications of high-performance computing and parallel programming using OpenMP, MPI, Globus Toolkit, Web Services, and Grid Services. Prerequisites: Graduate standing or permission of the instructor.

CEN 5087 Software and Data Modeling (3). Essential software and data modeling methods and techniques such as UML, XML, and ER. Prerequisite: Graduate standing.

CEN 5120 Expert Systems (3). Introduction to expert systems, knowledge representation techniques and construction of expert systems. A project such as the implementation of an expert system in a high level AI-language is required. Prerequisites: COP 3530 or permission of the instructor.

CEN 6070 Software Verification (3). Study of formal verification of software systems; verification methods; verification of sequential and concurrent software systems. Prerequisite: CEN 5011.

CEN 6075 Software Specification (3). Study of formal specification in the software development process; specification methods; specification of sequential and concurrent systems. Prerequisite: CEN 5011.

CGS 5166 Introduction to Bioinformatics Tools (2). Introduction to bioinformatics; analytical and predictive tools; practical use of tools for sequence alignments, phylogeny, visualizations, pattern discovery, gene expression analysis, and protein structure. Prerequisites: PCB 6025 or equivalent.

CGS 6834 Programming for the Web (3). Installation and maintenance of servers. Techniques for building secure multimedia interactive web pages. A hands-on project to develop an educational interactive multimedia web site is required. This course is not an elective for Computer Science programs.

CIS 5027 Computer Systems Fundamentals (3). Fundamentals concepts of IT Systems: operating systems, networking, distributed systems, platform technologies, web services and human-computer interaction. Covers design principles, algorithms and implementation techniques. Prerequisite: Graduate standing.

CIS 5207 Advanced AI/ML Techniques for Digital Forensic Applications (3). Presents advanced AI/ML-based concepts in forensic software, tools, technology. Provides experience in selection and use of different tools for analyzing evidence and aiding investigation. Prerequisite: Graduate standing.

CIS 5208 Social, Economic, and Policy Aspects of Cybersecurity (3). The broader human context of cybersecurity, from the perspective of society, economics, and policy. Prerequisite: Graduate standing.

CIS 5346 Storage Systems (3). Introduction to storage systems, storage system components, storage architecture, devices, trends and applications, performance, RAID, MEMS and portable storage, file-systems, OS storage management. Prerequisite: Graduate standing.

CIS 5370 Principles of Cybersecurity (3). Introduction to principles of cybersecurity, e.g., separation, isolation, modularity, usability, and its foundations, e.g., security models, access control, security life-cycle and ethics. Prerequisite: M.S. or Ph.D. standing or permission of the instructor

CIS 5371 Introduction to Cryptography (3). Introduction to cryptography, including hash functions, symmetric and public key cryptosystems, applications, attack types, standards. No programming or special math skills required. Prerequisite: M.S. or Ph.D. standing or permission of the instructor.

CIS 5372 Fundamentals of Computer Security (3). Information assurance algorithms and techniques. Security vulnerabilities. Symmetric and public key encryption. Authentication and Kerberos. Key infrastructure and certificate. Mathematical foundations. Prerequisite: Graduate standing.

CIS 5373 Systems Security (3). Risk, Trust, and Threat models; Types of Attacks; Safe Programming Techniques; Operating System Mechanisms, Virtual Machine Systems; Hardware Security Enforces; Application Security; Personal Security. Prerequisite: CIS 5372.

CIS 5374 Security and Privacy: Attacks and Defenses (3). Introduction to cyber threats with a focus on attack types, and privacy issues that include fair information practices, anonymity vs. privacy, risks, tracking and surveillance, tools, and policies. Prerequisite: M.S. or Ph.D. standing or permission of the instructor

CIS 5432 Advanced IT Automation (3). Advanced topics in system/network management including monitoring, help desk, antivirus, anti-malware, backup, disaster recovery, discovery, audit, remote control, automated response, policies, and reports. Prerequisites: CIS 4431 or permission of the instructor.

CIS 5900 Independent Study (1-10). Individual conferences, assigned readings, and reports on independent investigations. Prerequisite: Permission of the department.

CIS 5910 Project Research (1-6). Advanced undergraduate or master's level research for particular projects. Repeatable. Prerequisite: Permission of the department.

CIS 5915 Research Experience for Graduate Students (0-9). Participation in ongoing research in the research centers of the school.

CIS 5931 Special Topics (VAR). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

CIS 6612 Special Topics: Advanced Topics in Software Engineering (3). This course deals with selected topics in software engineering. Prerequisite: Permission of the instructor.

CIS 6900 Independent Study (1-10). Individual conferences, assigned readings, and reports on independent investigations. Prerequisite: Permission of the department.

CIS 6930 Advanced Special Topics (3). A course designed to give groups of students an opportunity to pursue special advanced studies not otherwise offered.

CIS 6931 Special Topics: Advanced Topics in Information Processing (3). This course deals with selected special topics in information processing. Prerequisite: Permission of the instructor.

CIS 6933 Computer Science Seminar (1). Regularly scheduled seminar series featuring speakers on computer science related topics. Prerequisite: Graduate standing.

CIS 6970 Thesis (1-10). Prerequisite: Completion of all other requirements for the M.S. Degree in Computer Science.

CIS 7910 Graduate Research (1-25). Doctoral research prior to candidacy. Repeatable. Prerequisite: Permission of the department.

CIS 7980 Ph.D. Dissertation (1-10). Prerequisite: Permission of the Major Professor and Doctoral Candidacy.

CNT 6207 Distributed Processing (3). Study of distributed processing using networking and distributed computing techniques. Investigation of distributed algorithms and models of distributed computing. Prerequisite: Graduate Standing.

CNT 6208 Advanced Topics in Concurrent and Distributed Systems (3). Study of the major aspects of concurrent and distributed systems. Topics include foundations of concurrent computation, languages and tools for concurrent systems, distributed real-time systems, distributed multimedia systems, and concurrent object-oriented systems.

COP 5614 Operating Systems (3). Operating systems design principles, algorithms and implementation techniques: process and memory management, disk and I/O systems, communications and security.

COP 5621 Compiler Construction (3). Basic techniques of compilation; scanning; grammars and LL and LR parsing, code generation; symbol table management; optimization. Prerequisites: MAD 3512 and CEN 4010.

COP 5725 Principles of Database Management Systems (3). Overview of Database Systems, Relational Model, Relational Algebra and Relational Calculus; SQL; Database Applications; Storage and Indexing; Query Evaluation; Transaction Management. Selected database topics will also be discussed.

COP 5949 Cooperative Education in Computer Science (1-3). One semester of full-time work, or equivalent, in an outside organization, limited to students admitted to the CO-OP program. A written report and supervision evaluation is required of each student.

COP 6007 Computer Programming Concepts (3). For non-computer science graduate students. Concepts of object oriented programming, introduction to an object oriented programming language; internet programming; applications of programming to learning technologies. Prerequisite: Permission of the instructor.

COP 6556 Semantics of Programming Languages (3). This course provides an overview of systematic and effective approaches to programming. Abstraction; formal specification techniques; program verification and; semantics of programming languages. Prerequisite: COT 5310.

COP 6611 Advanced Operating Systems (3). Advanced topics in operating system design; microkernel; memory architecture; multi-processor issues; multimedia operating systems; case studies. Prerequisite: Graduate standing.

COP 6727 Advanced Database Systems (3). Design, architecture and implementation aspects of DBMS, distributed databases, and advanced aspects of databases selected by the instructor. Prerequisite: Graduate standing.

COP 6795 Special Topics on Databases (3). Study of selected advanced topics in databases and related areas. Prerequisite: Permission of the instructor.

COT 5310 Theory of Computation I (3). Abstract models of computation; including finite automata, regular expressions, context-free grammars, pushdown automata, Turing machines. Decidability and undecidability of computational problems. Prerequisite: MAD 3512.

COT 5407 Introduction to Algorithms (3). Design of efficient data structures and algorithms; analysis of algorithms and asymptotic time complexity; graph, string, and geometric algorithms; NP-completeness.

COT 5428 Formal Foundations for Cybersecurity (3). Formal models and methods for achieving rigorous security guarantees. Cryptographic indistinguishability properties, reduction proofs. Formal analyses of security APIs. Secure information flow. Prerequisite: CIS 5370.

COT 5432 Applied Parallel Computing (3). This course teaches advance undergrad and graduate students to solve problems from scientific, social and financial domains using parallel computing principles and techniques. Prerequisites: COP 3530 and (CDA 3102 or CDA 4101 or EEL 4709) or permission of the instructor

COT 5443 Optimization Methods for Computing: Theory and Applications (3). Optimization for CS students, including introduction to optimization algorithms, applications in CS, efficient computing, and real-world problems. Prerequisites: MAC 2311 Calculus I or equivalent; MAS 3105 Linear Algebra or equivalent (instructor's permission is acceptable).

COT 5520 Computational Geometry (3). Design and analysis of efficient algorithms to solve geometric problems: geometric searching, convex hull, proximity problem, Voronoi diagram, spanning tree, triangulation, graph drawing applications. Prerequisite: COP 3530 (or equivalents).

COT 6405 Analysis of Algorithms (3). Design of advanced data structures and algorithms; advanced analysis techniques; lower bound proofs; advanced algorithms for graph, string, geometric, and numerical problems; approximation algorithms; randomized and on-line algorithms. Prerequisite: Graduate standing.

COT 6421 Theory of Computation II (3). Verification of program correctness; program schemes; fixed-point theory of programs; resolution and theorem proving. Prerequisite: COT 5310.

COT 6446 Randomized Algorithms (3). Topics include moments and deviations, tail inequalities, random walk

and Markov chains, stochastic processes, the probabilistic method, and applications of these tools and techniques in data structure, geometric algorithms, graph algorithms, secure systems and property testing, etc. Prerequisite: COT 5407.

COT 6930 Special Topics: Advanced Topics in Theory (3). This course deals with selected special topics in computing theory. Prerequisite: Permission of the instructor.

COT 6931 Topics in Cognitive Science (3). A "top-down" view of Computer Science, in particular artificial intelligence, by studying the computational aspects of human cognition. Prerequisite: Permission of the instructor.

COT 6936 Topics in Algorithms (3). Advanced data structures, pattern matching algorithms, file compression, cryptography, computational geometry, numerical algorithms, combinational optimization algorithms and additional topics. Prerequisite: COP 3530.

IDC 5007 Concepts of Artificial Intelligence (3). High-level conceptual survey of artificial intelligence for non-CS graduate students, including techniques, applications, ethics, and philosophical issues. No high-level math or programming required.

IDC 5013 Computer Science for Middle School Teachers (3). Provide teachers with the knowledge to teach Computer Science topics such as programming, physical computing, web development, design, and data, appropriate for middle school students.

IDC 5014 Computer Science for High School Teachers (3). Computer Science topics such as computational thinking, logic, visual programming, social and ethical issues related to computer technologies, appropriate for high school students.

IDC 6940 Capstone Course in Data Science (1-3). Projects course using Python, SQL, R, and/or other specialized analysis toolkits to synthesize concepts from data analytics and visualization as applied to industry-relevant projects. Prerequisite: CAP 5768

TCN 5010 Telecommunications Technology and Applications (3). An in-depth introduction to voice and data networks, signaling and modulation, multiplexing, frequency band and propagation characteristics, special analysis of signals, and traffic analysis. Prerequisite: Permission of the instructor.

TCN 5030 Computer Communications and Networking Technologies (3). Teaches the dynamics related to computer communications, how computers are grouped together to form networks, various networking implementation strategies, and current technologies. Prerequisite: Permission of the instructor.

TCN 5060 Telecommunications Software and Methodologies (3). A high-level look into network architectures and distributed applications, client-server models, network software platforms and advanced techniques for programs specifications through implementation. Prerequisites: TCN 5030 or permission of the instructor.

TCN 5080 Secure Telecommunications Transactions (3). Telecom and information security issues such as: digital signatures, cryptography as applied to telecom transactions, network policing, nested authentication, and improving system trust. Prerequisites: TCN 5030 or permission of the instructor.

TCN 5150 Multimedia Computer Communications (3). Covers multimedia computer communications technologies including, multimedia over networks, videoconferencing, telephone, compression algorithms and techniques for transmitting data efficiently. Prerequisites: TCN 6210 or permission of the instructor.

TCN 5421 Theory of Network Computation (3). Fundamental mathematical models of general and network computation: finite state automata, regular languages, decidability; scholastic processes, Markov chains, queuing theory.

TCN 5440 Software Development for Telecommunication Networks (3). Focuses on the aspects, tools, and techniques of developing software applications for telecommunications networks. Prerequisites: TCN 5030 or equivalent.

TCN 5445 Telecommunications Networking Programming (3). Advanced telecommunications network programming skills including Router and Bridge Software, socket programming and protocol handler. Prerequisite: Permission from instructor.

TCN 5455 Information Theory (3). Entropy and measure of information. Proof and interpretation of Shannon's fundamental theorem for various channels, including noiseless, discrete, time-discrete and time-continuous channels. Prerequisite: Permission of the instructor.

TCN 5640 Telecommunications Enterprise Planning and Strategy (3). Methodologies for re-engineering, project management, strategic planning, change management, RFPs, and life-cycle management within the telecommunications and IT arena. Prerequisite: Permission of the instructor.

TCN 5710 Cyber Sustainability (3). In-depth introduction to sustainable development and optimization of cyber systems, such as mobile networks and data centers, with an emphasis on cost, energy, water and life-cycle assessment.

TCN 6210 Telecommunications Network Analysis and Design (3). A systematic, analytic and descriptive approach to the evaluation of telecommunications networks, networking principles, and control and quality of service. Prerequisite: Permission of the instructor.

TCN 6215 Advanced Network Algorithms (3). This course will cover algorithms that are used in network research and implementation. Prerequisites: TCN 6210 or consent of the instructor.

TCN 6230 Optical Networks (3). Enabling technologies, multiplexing techniques, WDM, broadcast networks, wavelength-routed networks, network architectures, protocols, network algorithms, and device-network interfaces. Prerequisites: TCN 5030 or equivalent.

TCN 6260 Internetworking (3). The course will discuss advanced topics, current trends and control of internetworking. An analytical and descriptive approach will be used to cover the subject of internetworking.

TCN 6270 Mobile and Wireless Networks (3). Techniques in the design and operation of wireless networks; LANs, MANs, and WANs; analytical models; application of traffic and mobility models; mobility control, and wireless ATM. Prerequisites: TCN 5030 or equivalent.

TCN 6275 Mobile Computing (3). Enabling technologies and impediments of mobile computing. It includes mobile architectural design, mobile-aware and transparent adaptation, mobile data access and file systems, and ad-hoc networks. Prerequisite: Permission of the instructor.

TCN 6420 Modeling and Performance Evaluation of Telecommunications Networks (3). Covers methods and research issues in the models and performance evaluation of high-speed and cellular networks. Focuses on the tools from Markov queues, queuing networks theory and applications. Prerequisites: TCN 5030 or equivalent.

TCN 6430 Networks Management and Control Standards (3). Protocols for management of telecom networks, including Simple Network Management Protocol and Common Management Information Protocol. Extension of protocols to optimize network performance. Prerequisites: TCN 5030 or equivalent.

TCN 6450 Wireless Information Systems (3). Enabling technologies and impediments of wireless information systems. Focuses on software architectures, and information and location management in the wireless environment. Prerequisite: Permission of the instructor.

TCN 6820 Industrial Development of Telecommunications (3). This course, from a management perspective, addresses the evolution of the telecom industry, the impact it has on reshaping our world, and the importance of management decisions in telecom.

TCN 6880 Telecommunications Public Policy Development and Standards (3). A concept-oriented examination of the domestic and international telecommunications policy processes and standards setting environment. Prerequisite: Permission of the instructor.

TCN 6935 Graduate Seminar (0). Investigation and report by graduate students on topics of current interest in telecommunication and networking. Prerequisites: Ph.D. classification and approval of instructor.

Moss Department of Construction Management

Irtishad U. Ahmad, Ph.D., P.E., *Professor Emeritus*
Ronald A. Baier, P.E., *Teaching Professor Emeritus*
Mohamed ElZomor, Ph.D., *Assistant Professor and Graduate Program Director*
José Faria, Ph.D., PMP, *Moss Endowed Chair*
Eugene D. Farmer, A.I.A., NCARB, LEED-AP BD+C, *Professor Emeritus*
Leonel Lagos, Ph.D., *Associate Professor*
Xuan Lv, Ph.D., *Assistant Professor*
José D. Mitrani, P.E., CPC, CGC, *Professor Emeritus*
Ayman A. Morad, Ph.D., *Associate Teaching Professor*
Wallied Orabi, Ph.D., *Associate Professor and Undergraduate Program Director*
Sacha Perez, M.S. Ed. *Academic Advisor I*
Nipesh Pradhananga, Ph.D., P.E., *Associate Professor and Associate Chair*
David Ramsey, Ph.D., *Assistant Teaching Professor*
Sudip Subedi, Ph.D., *Visiting Assistant Teaching Professor*
Lufan Wang, *Assistant Teaching Professor*
Natasha Wedderburn, MPA, *Professional Academic Advisor*
Lu Zhang, Ph.D., *Assistant Professor*

Master of Science in Construction Management

The master's degree is rapidly becoming the entry level requirement for middle and upper level managerial positions in the construction industry. The primary goal of this program is to provide the knowledge and advanced skills essential for success in these positions. The program is flexible enough to accommodate graduates from other disciplines who may lack an undergraduate background in construction management.

Students who hold four year undergraduate degrees in construction management may complete the masters degree in one academic year as full-time students. Equivalent degree related fields would include studies in construction drawings, construction materials and methods, construction accounting and finance, economic planning, structures, site work, legal aspects of construction, cost estimating, construction scheduling and business management/finance. Students with deficiencies in these fields may need longer residence for the master's degree, as they will be required to take specified basic undergraduate courses.

Admission Application

Students desiring to enter the Construction Management graduate program must formally apply to the University for acceptance at **https://admissions.fiu.edu/index.html** Students can also send their application material to:

Florida International University
College of Engineering
Dean's Office
Admissions Coordinator
10555 West Flagler Street
Miami, FL 33174
Email: **grad_eng@fiu.edu**
Fax: (305) 348-6142

See the graduate admission section in this catalog for graduate application instructions.

Admission Requirements

In order to be admitted, applicants should hold a Bachelor's Degree in Construction, Construction Management, Architecture, Engineering, Business or equivalent related fields. Students with baccalaureate degrees other than Construction Science, Construction Management, or Construction Engineering may be accepted with the understanding that they will be required to take specified basic undergraduate courses as determined by the Graduate Program Director, to provide an adequate background for more advanced courses. In addition, applicants must have earned a minimum grade point average (GPA) of 3.0 in the upper division course work related to their undergraduate degree.

Eligibility for admission for those students whose upper division undergraduate GPA is less than 3.0 (on a 4.0 scale) may be evaluated on the basis of one or more of the following:

- GRE or GMAT scores
- Letters of reference
- Work experience
- Other relevant factors, including but not limited to, awards, recognitions, published journal articles, conference presentations, etc.

Applicants who do not satisfy the GPA requirement will be evaluated by the Department's Graduate Program Director based on the factors identified earlier, and may be recommended for admission on a provisional/conditional status.

TOEFL

In addition to the above criteria, international graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Curriculum

Students seeking to obtain a Master of Science in Construction Management have a choice of either a thesis or a non-thesis option. Students have to complete 30-36 semester hours including thesis. Students with a Bachelor of Science (BS) degree in Construction Management, Construction Science, or Construction Engineering must complete at least 30 semester hours to graduate. Students with a BS degree in Engineering or a BA degree in Architecture must complete at least 33 semester hours to graduate. All other students with undergraduate degrees in disciplines such as business, accounting, finance, etc. must complete at least 36 semester hours to graduate. The thesis option consists of a minimum of 24-30 semester hours of course work and 6 semester hours of thesis. The non-thesis option consists of 30-36 semester hours of course work and may include up to 6 semester hours of independent studies. A student shall not register for masters thesis without first having received the approval from his/her thesis supervisor and the Chair of the Department. A student may not register for independent studies without the approval of his/her advisor, and the Chair of the Department.

Course Requirements

Graduate credit is awarded for courses numbered 5000 and above. The work in the major field must be in courses numbered 5000 or above. For work outside the major, up to two courses numbered 4000-4999 may be taken provided they are part of a plan of study approved by the student's supervisory committee or the Department Graduate Committee, whichever is applicable, and prior approval is obtained from the Chair of the Department. Approval must be obtained in writing prior to the student registering for such a course.

Students with deficiencies in the areas designated as equivalent related fields will be required to take and successfully complete (with a grade of "C" or above or with "P" grade, if applicable) 3000 and 4000 level courses in Construction Management in order to provide the proper foundation for advanced courses.

The program of course work for a masters degree must be approved by the student's advisor, supervisory committee (if thesis option), and Department Chair. No more than six credits from a previous masters degree program may be applied toward a second masters degree. These credits are applied only with the written approval of the Department Chair, the Dean of the College of Engineering and Computing, and the University Graduate School.

Transfer of Credit

Only graduate (5000 - 7999) level work to the extent of two courses, totaling not more than six semester hours, earned with a grade of 'B' or better may be transferred from another institution, or from post-baccalaureate work at the University except as noted otherwise in this catalog. Credits transferred from other universities may be applied toward meeting the degree requirements but the grades earned will not be computed in the student's grade point average. Acceptance of transfer of credit requires approval of the Graduate Program Director, College Dean, and the University Graduate School. Petitions for transfer of credit for a masters degree should be made during the student's first term of enrollment in the masters program.

Supervisory Committee

Students who choose the thesis option should request the appointment of a supervisory committee as soon as possible after admission into the program, but in no case later than the second semester of graduate study. Supervisory committees for graduate degree programs are nominated by the student's graduate advisor and approved by the Department Chair, College Dean, and the Dean of the University Graduate School. The student's proposed plan of study must be approved, in writing, by the student's graduate advisor, the supervisory committee and the Department Chair.

Masters Thesis

A student choosing the thesis option must, as part of his/her plan of study, prepare a written proposal of the thesis work planned. This proposal must adhere to all University and Department regulations concerning format and content. Once this proposal is approved, in writing, by the student's graduate advisor, his/her supervisory committee, the Department Chair, and the College Dean, the student will be permitted to register for masters thesis. The student must be enrolled in at least one thesis credit hour the semester the proposal is submitted to the University Graduate School.

Examination

A final oral examination, which is primarily a defense of the thesis research, is required for thesis masters candidates. A passing grade must be obtained in order to qualify for graduation. The examination will be administered by his/her supervisory committee.

Special Student

In exceptional cases, students wishing to enroll in courses during the application process may do so as a special student (non degree seeking). No more than 12 semester credits of work taken as a special student can be applied towards graduation. No courses with a grade lower than a "B", earned as a special student, will be included in the Masters program upon admission. Students taking courses under the special student designation should consult other sections of this catalog for pertinent regulations covering the special student status.

General Regulations

Grades

The Moss Department of Construction Management requires a minimum cumulative grade point average of 3.0 in all courses taken towards a masters degree. The minimum acceptable grade for any work attempted as a graduate student is a "C."

Grade of Incomplete

A grade of "I" (Incomplete) may be granted, at the option of the Instructor, upon approval by the Department Chair, to a student who, due to serious, documented, and verifiable extenuating circumstances beyond his/her control is unable to complete the work required to obtain a grade for a course.

A student wishing to receive an incomplete ("I" grade) must meet with his/her professor and sign an agreement outlining what work must be completed to receive the final grade and when this work is due. Failure of the student to either complete the work required by the agreement or not meet the deadline prescribed in the agreement will result in the grade reverting to a grade of "F" (failing grade).

Graduation

In order to be eligible to graduate the student must have successfully completed his/her plan of study as established with the student's graduate advisor, his/her supervisory committee (if applicable), and the Department Chair. This includes completion of all applicable graduate course work with an overall minimum grade point average of 3.0. A student choosing the thesis option must also have submitted a complete masters thesis, whose format, content, and presentation must be acceptable to and approved by his/her graduate advisor, supervisory committee, Department Chair, College Dean, and the Dean of the University Graduate School.

Students should contact an advisor at least one semester prior to their projected graduation and request a review of their file. At the start of the final semester the student is required to complete an Application for Graduation (online application). If for any reason a student fails to graduate in the semester after applying for

graduation, the student must reapply for graduation and enroll for at least one graduate credit.

It is the student's responsibility to ascertain that all requirements for graduation, as stated in the University Catalog and in the Department Program sheets, have been met.

Foundation Courses

Students (CM majors) requiring 30 credit hours to graduate are not allowed to take any of the foundation courses to count towards their MSCM degree. Students requiring 33 credit hours to graduate must take at least three courses (9 credits) from the foundation courses listed below – unless exempted by the Graduate Program Director. Students requiring 36 credits to graduate must take at least four courses (12 credits) from the list of foundation courses given below – unless exempted by the Graduate Program Director. The foundation courses, whether three or four, must be taken with the approval of the Graduate Program Director.

BCN 5618	Fundamentals of Construction Estimating	3
BCN 5645	Construction Economic Analysis	3
BCN 5728	Principles of Construction Scheduling	3
BCN 5766	Codes and Regulations	3
BCN 5746	Construction Legal Environment	3

Construction Management Electives

All BCN courses listed in this catalog can be taken as elective courses Depending on the academic background of the student, the balance of 30-36 credits is to be taken from the list. Thesis students may take up to 6 credits of BCN 6971 spread over at least two consecutive terms with 3 credit hours in each. All students may take up to 6 credits of BCN 5905. A student shall not register for BCN 5905, BCN 6910, or BCN 6971, without the approval of his/her advisor, and the School Director. Not more than 3 credit hours of BCN 5905 or BCN 6971 may be taken in any one semester. A student shall count BCN 5949 only once towards graduation.

Combined BS/MS in Construction Management Degree Pathway

Students who pursue a BS degree in Construction Management, completed 75 credits and have an overall GPA of at least a 3.2 GPA may apply to enroll in the combined BS/MS pathway in Construction Management upon recommendation from the undergraduate advisor. Students should complete all lower division courses to be considered for this degree pathway. The student must also meet the admission criteria for the graduate degree program and the University Graduate School. Students need only apply once to the combined degree pathway, but the application
must be submitted to Graduate Admissions before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students enrolled in the pathway may count up to nine credit hours of BCN graduate courses towards the electives of the BS degree. A minimum grade of B is required for all graduate courses counted for both the BS and MS degrees. Only graduate courses with formal lectures can be counted for both degrees. The students are responsible for confirming the eligibility of each course with the Undergraduate Advisor.

The combined BS/MS pathway has been designed to be a continuous program. However, upon completion of all the requirements of the undergraduate program, students will receive their BS degrees. Students in this pathway have up to one year to complete the master's degree after receipt of the bachelor's degree. Students who fail to meet this one year post BS requirement or who elect to leave the combined pathway at any time and earn only the BS degree will have the same access requirements to regular graduate programs as any other student, but will not be able to use the nine credits in both the bachelor's and master's degrees.

Students interested in the pathway should consult with the Undergraduate Advisor on their eligibility for admission. The students should also meet the Graduate Program Director to learn about the graduate program and available courses before completing the application form online

Master of Science in Construction Management/Juris Doctor Joint Degree Pathway

Florida International University (College of Engineering and Computing and College of Law) offers a joint degree pathway culminating in both a Juris Doctor degree, awarded by the College of Law, and a Master of Science in Construction Management (MSCM) degree, awarded by the College of Engineering and Computing.

Under this joint degree pathway, a student can obtain expertise in both fields (construction and law) in significantly less time than it would take to obtain both degrees if pursued consecutively.

Essential criteria relating to this joint degree pathway are as follows:

1. Candidates for the pathway must meet the entrance requirements for and be accepted by both Colleges. Both Colleges must be informed by the student at the time of application to the second program that the student intends to pursue the dual degree.
2. The joint degree pathway is not open to students who have already earned one degree.
3. For law students, enrollment in the MSCM program is required no later than the completion of 63 credit hours in the J.D. program. For MSCM students, enrollment in the J. D. program is required no later than the end of the first semester after beginning the MSCM program. (A summer session is counted as a full semester.)
4. The College of Engineering and Computing will allow 9 credit hours of law courses to be credited toward both the MSCM and J.D. degrees. These [9] credit hours of law classes will be in lieu of the three elective courses required for the MSCM degree. Foundation courses must be completed as required and explained in the catalog and cannot be substituted with any College of Law courses. The students must have a minimum GPA of 3.0 in each of the three law courses for inclusion in their MSCM degree program.

Reciprocally, law students may receive 9 hours of credit toward the satisfaction of the J. D. degree for courses taken in the MSCM curriculum upon completion of the MSCM degree curriculum with a grade point average of 3.0 or higher. These 9 credit hours of construction management courses will be in lieu of electives required for the J.D.

5. A student enrolled in the joint degree pathway may begin the student's studies in either College, but full-time law students must take the first two semesters of law study consecutively and part-time law students must take the first three semesters of law study consecutively. Students enrolled in the MSCM program must be enrolled at least in one course in any given semester during his/her entire course of study. Students admitted to one College but electing to begin study in the other College under the joint degree pathway may enter the second College thereafter without once again qualifying for admission so long as they have notified the second College before the end of the first week of the first semester in the second College and are in good academic standing when studies commence in the second College.
6. A student enrolled in the joint degree pathway can receive either degree if the student has satisfied all of the requirements for that degree.

Course Descriptions

Definition of Prefixes

BCN-Building Construction

Student programs of study in the graduate level program are carefully designed and sequenced following consultation with a graduate faculty advisor. Appropriate prerequisite course work is assigned on the basis of individual needs.

BCN 5022 Housing for Developing Countries (3). Problems faced by developing countries in housing their population. Political, economic, social, and technical considerations in decision process.

BCN 5406 Principles of Building Structures for Construction Management (3). Applications of the principles of mechanics to engineering problems of equilibrium, strength, and stiffness. Topics include equilibrium of forces, stress, strain, torsion, beams, and columns.

BCN 5585 Sustainable Construction (3). Study of the concepts and techniques of sustainable construction, in depth review of sustainable materials and construction techniques. Prerequisite: Permission of the instructor.

BCN 5588 Vulnerability Analysis (3). Assessment of risk and potential for damage to a community or facility from the impact of natural or anthropogenic hazards. Physical and construction related issues.

BCN 5589 Hazard Mitigation (3). Reducing potential damage to the built environment from natural hazards, including hurricanes, floods, earthquakes, explosions. Benefit-cost analysis. Regulatory problems.

BCN 5618 Fundamentals of Construction Estimating (3). Principles and practices of estimating, providing application, and drill in surveying quantities of labor and materials for general construction projects: excavation, concrete and formwork, carpentry, masonry, structural steel, lath and plaster, interior finishes.

BCN 5622 Advance Planning and Simulation for Construction (3). The application of advanced planning, scheduling, and simulation techniques and concepts to construction processes and operations.

BCN 5626 Construction Cost Analysis and Control (3). Description of different types of estimating techniques in relation to different stages in a construction project. Productivity analysis, measurement of progress, and techniques of cost control are covered.

BCN 5645 Construction Economic Analysis (3). Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation, general office operations, and bidding procedures.

BCN 5706 Interdisciplinary Aspects of Housing (3). Recognition and definition of those factors which affect the planning, financing, and construction of housing projects. The operations and responsibilities of a multidisciplinary team dealing with decision process. This course takes a critical look at the housing delivery system to include: how the housing industry operates, various technologies prevalent in housing construction, and constraints to housing. The course will also look at the future, examining problems and forces that will shape opportunities.

BCN 5716 Productivity in Construction (3). An in-depth study of common issues relating to productivity improvements in construction.

BCN 5728 Principles of Construction Scheduling (3). Application of CPM and PERT to construction planning, time-cost trade-off, resource/cost-flow management and analysis, repetitive task planning, progress updating, and computerized scheduling

BCN 5735 Hazardous Materials and Waste in Construction (3). Discussion of the common hazardous materials and waste regulations found in construction activities.

BCN 5738 Construction Safety Management (3). Introduce the graduate student in Construction Management to the important elements essential in managing the safety function of a construction company.

BCN 5741 Construction Claims (3). Construction claims, administration, and avoidance. Covers the importance of construction contact errors, unforeseen and changed conditions, disruptions, acceleration, termination, and proving of claims.

BCN 5746 Construction Legal Environment (3). Legal and business aspects of engineering contracts and specifications in the construction industry. Analysis, study of precedents, and application of contract clauses, including changes, changed conditions, termination, disputes, payments, risk and insurance, inspection, liquidated damages, and technical requirements.

BCN 5747 Construction Law Case Studies (3). Case study and analysis of reported appellate decisions on common construction law issues; licensing; bid disputes; contract issues; construction lien law; surety problems; and unresolved claims.

BCN 5749 Advanced Construction Documentation (3). Construction related documentation requirements for avoidance of litigation before, during, and after completion of construction projects; dispute resolution processes for construction operations.

BCN 5755 Construction Financial Management (3). Money management in construction operations: financing, funding, sources of money, cash flow, disbursement, liability and bonding, cost and managerial accounting, and profit analysis.

BCN 5766 Codes and Regulations (3). Study of building codes required by local, county, and state levels and their relation to quality control.

BCN 5771 Management and Marketing of Construction Services (3). Human effectiveness in marketing construction management services in the public and private sectors.

BCN 5772 Management of Construction Organizations (3). This course studies the management of a construction company. Topics included are: company organization, incorporation structures, policies and procedures, finance, accounting, information modeling, bidding strategies, and operation.

BCN 5774 Topics in International Construction (3). Introduction to procurement, financing and management of international construction projects with emphasis on international economics, contracts, trade agreements and specifications.

BCN 5784 Construction Information Systems (3). The application of information management techniques, including computer hardware and software systems, to the analysis and solution of typical problems in the practice of construction management.

BCN 5792 Total Quality Management and Planning in Construction (3). The application of TQM philosophy and tools developed by Deming, Juran, Crosby and ISO 9000 standards to solving construction industry related problems will be discussed. Strategic planning as it relates to construction will also be covered in this course.

BCN 5905 Directed Independent Studies (1-3). Individual studies under supervision of faculty, tutor, or advisor. Requires prior approval of advisor and Chair.

BCN 5906 Special Topics (1-3). Intensive study for small group of students in a particular topic, or a limited number of topics not otherwise offered in the curriculum.

BCN 5949 Graduate Construction Management Internship (1). Supervised work in construction management. Evaluation and reports required. Prerequisites: Consent of advisor and Department Chair.

BCN 6473 Systems Approach for Housing Planning (3). Discussions of basic concepts of systems analysis and systems approach to the field of housing planning. The advantage of systems approach. Case studies.

BCN 6642 Value Engineering in Construction (3). Relationship of costs to time and life cycle of construction projects, and methods to improve the economic value of construction projects.

BCN 6775 Decision and Risk Analysis in Construction (3). Techniques of decision analysis for the medium to top level management personnel in the construction industry. Typical construction related problems that involve risk and uncertainty are studied.

BCN 6785 Advanced Estimating and Bidding Strategy (3). Application of computer software to rigorous exercises in construction estimating. Cost information related to construction with applications in current practice. Prerequisites: BCN 5618 or Instructor Permission

BCN 6788C Artificial Intelligence Applications in Construction Management (3). The course presents a study of the concepts, techniques, and applications of AI technology in the construction management domain.

BCN 6795 Automation in Construction (3). In depth introduction and analysis of automation technologies in construction, covering issues related to the application, implementation and evaluation of automation technologies throughout the lifecycle of a construction process for smart jobsites. Prerequisite: Permission of the instructor.

BCN 6796 Construction Failures (3). Discussion of issues and presentation of case studies related to failures of construction projects. Prerequisite: Permission of the instructor.

BCN 6910 Supervised Research (1-6). Graduate level research carried out under the supervision of a faculty member.

BCN 6912 Project in Construction Engineering and Management (3). Independent research work culminating in a professional practice oriented report for the requirements of the project-option of the Masters degree in construction engineering of construction management. Prerequisites: Fifteen graduate credits and approved project plan.

BCN 6916 Developments in Construction Technologies (3). Study of advanced field techniques and emerging uses worldwide. Information flow and creativity are highlighted as crucial elements which stimulate new developments. This course prepares the students to understand and deal with concepts of change.

BCN 6935 Seminar on Construction Management (3). Advanced study of problems, trends, and issues in a time of rapid change in building and management technology. Topics selected or developed by class.

BCN 6971 Thesis (1-3). (Total of 6 credit hours spread over at least two consecutive terms with 1-3 credit hours in each must be completed.) Students develop a thesis under the direction of a senior faculty mentor, and their supervisory committee, and advance and defend their propositions before an audience of peers, scholars, and their supervisory committee. Requires approval of advisor, supervisory committee, and Department Chair.

Biomedical Engineering

Jorge Riera Diaz, *Associate Professor and Interim Chair*
Michael Brown, *Teaching Professor*
Michael Christie, *Associate Teaching Professor*
Zachary Danziger, *Assistant Professor*
Anuradha Godavarty, *Associate Professor and Undergraduate Program Director*
Joshua Hutcheson, *Assistant Professor*
Shuliang Jiao, *Professor*
Maria Monje Ramos, *Professional Academic Advisor*
Wei-Chiang Lin, *Associate Professor*
Pulugurtha Markendoya Raj, *Associate Professor*
Anthony McGoron, *Professor and Associate Dean for Academic Affairs, College of Engineering and Computing*
Sharan Ramaswamy, *Associate Professor and Graduate Program Director*
Jessica Ramella-Roman, *Associate Professor*
James Schummers, *Associate Professor*
Nikolaos Tsoukias, *Associate Professor*

The mission of the Department of Biomedical Engineering is to bridge engineering, science and medicine:

- to educate and train the next diverse generation of biomedical engineers
- to conduct research leading to significant discoveries in medical sciences
- to conduct design and development of innovative medical technology
- to translate scientific discovery and medical technology to industry or clinical practice for delivery of health care
- to engage with the local to global community for knowledge dissemination

The objectives of the graduate Biomedical Engineering Program at FIU are the following:

1. Provide opportunity for advanced graduate studies and entrepreneurial activities;
2. Encourage FIU graduates to extend their careers into research and teaching;
3. Prepare graduates for conducting innovative and impactful biomedical engineering research, design and development;
4. Provide highly trained professionals in Biomedical Engineering to serve in academic institutions, government agencies, research laboratories, and manufacturing and service industries.
5. Improve minority and Hispanic doctoral graduate representation in the Biomedical Engineering field, where they are highly underrepresented; and
6. Help attract more biotechnology industries to Miami-Dade County and South Florida.

Master of Science in Biomedical Engineering

The Department of Biomedical Engineering at Florida International University offers Research and Professional tracks for the Master's Degree. In addition, the Department offers accelerated combined BS/MS pathways and certificate programs. These programs provide an interdisciplinary education intended to prepare the student for professional practice in Biomedical Engineering.

All work counted for the Master's degree must be completed during the six years immediately following the date of admission to the graduate program.

Admission Requirements

The following is in addition to the University's graduate admission requirements:

1. A student seeking admission into the program must have a bachelor's degree in engineering, the physical/life sciences, computer science, or mathematics from an accredited institution, or in the case of foreign students, from an institution recognized in its own country as preparing students for further study at the graduate level.
2. An applicant must have achieved a "B" average in upper level undergraduate work.
3. Applicants who have not satisfied the above will be evaluated for probationary or waiver admission.
4. In addition to the above criteria, International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
5. The GPA and TOEFL scores specified above are to be considered minimum requirements for admission. Applicants from science and engineering areas other than biomedical engineering will be expected to complete undergraduate remedial courses selected to prepare them for graduate courses in their area of interest. Full admission into the graduate program requires the completion of these background courses with no grades below "C" and a grade point average of 3.0 or better.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

1. Recommendation of the advisor and faculty of the Department.
2. Certification provided by the Department Chair, College Dean, and University Graduate School that all degree requirements have been met.
3. Meet the undergraduate deficiencies, if any existed in the student's program, as additional courses toward the degree.
4. Complete the required semester hours of graduate level credit (not more than six graduate semester hours with a grade of "B" or higher can be transferred from other accredited institutions).
5. Successful defense of an acceptable graduate thesis if required of the program.
6. Students must maintain an overall GPA of 3.0. No grade below a "C" will be accepted in a graduate program. In the event that a student is placed on probationary status, he or she must obtain a directed program from his or her advisor and approved by the Graduate Program Director prior to continuing further course work toward the degree. The student must satisfy the directed course of action within the prescribed time limit; otherwise he or she will be academically dismissed.
7. Comply with all University policies and regulations.

Orthotics and Prosthetics Engineering Track

This track will provide comprehensive training for students in life-science areas, including anatomy, kinesiology, pathology, and normal pathological gait. In addition, it will provide extensive engineering training in biomechanics, material science, and the fabrication and evaluation processes of orthotic and prosthetic devices, as well as research skills.
Completion of this track will prepare students to pursue a career in the field of orthotics and prosthetics as an engineer and innovator. This track is not accredited for pursuing professional certification for orthotics and prosthetics provided by the American Board for Certification (ABC).

Course Requirements

Approved Life Science Elective

PHT 5174 (L)	Analysis of Movement	4
PHT 6163	Neurological Diagnosis and Management I	3
PHT 5180	Kinesiology	3

Biomedical Electives

BME 6212	Solid Mechanics Applications in Physiological Systems	3
Or		
PHY 6125	Clinical Biomechanics	3
BME 5141L	Introduction to Laboratory Skills and Materials in Prosthetics and Orthotics	1
BME 5213L	Clinical Evaluation Tools	3
BME 5214L	Orthotic Management of the Lower Limb 1	4
BME 5215L	Prosthetic Management of the Lower Limb 1	4

Others

BME 5105	Intermediate Biomaterials Science	3
BME 5941	Biomedical Engineering Internship	1
BME 6907	Master's Project	3

Professional Track

This track is tailored primarily for engineers currently practicing in the biomedical industry and students interested in pursuing a management career in the biomedical industry. A student shall complete 27 credit hours of course work and a 3 credit hour capstone project. The courses are organized into four core areas: Life Sciences, Mathematics, Engineering Management, and Biomedical Engineering. The student will choose two courses from the Engineering Management core based on personal training requirements. While the degree is structured as a non-thesis program, students will be required to conduct an industrial project (3 credit hours). The project will include contemporary topics and trends in biomedical engineering technology development and will require a formal report and presentation upon completion. Students receiving financial support from the department are not eligible for the Professional Track option.

Early in the program (before the end of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program. A maximum of three credits of independent studies beyond the MS project may be included in a study plan.

Professional track students are required to take an oral final examination dealing with the objectives of their study plan. The student will briefly summarize the project report (20 minutes) as a part of the exam. The examining committee will include a minimum of three faculty members, at least two of whom have appointments in the Department.

Course Requirements

Approved Life Science Elective (3 credits) such as

BME 5410	Biomedical Physiology and Engineering I	3
BME 5411	Biomedical Physiology and Engineering II	3
PHZ 6255	Molecular Biophysics	3

Mathematics Core (3 credits)

STA 5676	Reliability Engineering	3
or		
STA 5126	Fundamentals of Design of Experiments	3

Approved Engineering Management Elective (6 credits) such as

EIN 5226C	Total Quality Management for Engineers	3
EIN 5322	Engineering Management	3
EIN 5359	Industrial Financial Decisions	3
MAN 6167	Leadership in a Global Environment	3

Biomedical Engineering Core (18 credits)

Biomedical Engineering Electives		15
BME 6907	Master's Project	3

Research Track

The research track is geared to prepare the graduate for further graduate study or a career in biomedical research. A student shall complete a minimum of 30 credit hours. This includes a minimum of 24 hours of course work (15 credits of electives in specialty areas, 6 credits of mathematics core courses, 3 credits of life science elective), one semester of the Biomedical Engineering Seminar and 6 semester credit hours of Master's Thesis or 3 credit hours of Master's Project. Students electing Master's project will need to take one additional biomedical engineering elective course. Early in the program (before the end of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program. A maximum of three credits of independent studies other than the MS thesis may be included in a study plan. Students receiving support from the department are not permitted to choose the project option.

All students in the research track are required to complete a research project under the supervision of an advisor and a committee. When the research is completed, the student should schedule a defense with an examining committee consisting of a minimum of three graduate faculty members (at least two of whom have appointments in the Department). The candidate should prepare to summarize the thesis or the report in the manner of a technical paper using appropriate visual aids in 40 minutes or less. Following the presentation, the candidate will answer questions related to the work from the audience and/or the committee. At the conclusion of the defense, the committee will agree upon the outcome - pass or fail - and report the results to the Graduate School. Following the exam, student will implement the committee's suggestions for improving the draft document. Each committee member must sign the approval form in the final document. Copies of the approved thesis must be provided to the advisor, Department, and the University

Graduate School. Students should become familiar with the University Graduate School's regulations and deadlines available online at **http://gradschool.fiu.edu**.

Course Requirements

Biomedical Engineering Core (21 credits)
All students in the Research Track must take three courses in one specialty area, and one course in each of the other two specialty areas. The current specialty areas are: 1) Basic research in engineered tissue model systems; 2) Diagnostic bioimaging and sensor systems; and 3) Therapeutic and reparative neurotechnology.

BME 6970	Master's Thesis	6
or		
BME 6907	BME Master's Project	3
BME 6936	Biomedical Engineering Seminar	0

Mathematics Core (6 credits)

STA 5126	Fund Design of Experiments	3
or		
STA 6176	Biostatistics	3
BME 6705	Nonlinear Systems Applications in Life Science	3

Approved Life Science Elective (3 credits) such as

BME 5410	Biomedical Physiology and Engineering I	3
BME 5411	Biomedical Physiology and Engineering II	3
PCB 6027	Molecular and Cellular Biology II	3
PCB 6025	Molecular and Cellular Biology I	3
PHZ 6255	Molecular Biophysics	3
CHM 5325	Physical Chemistry of Proteins	3
CHM 5506	Physical Biochemistry	3
CHM 5503	Physical Chem of Nucleic Acids	3

Combined BS/MS Degree Pathways

This five-year pathway seamlessly combines a baccalaureate degree in biomedical, mechanical or electrical engineering with the Master's in biomedical engineering. To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed 75 credits in the bachelor's degree program at FIU, have earned at least a 3.25 GPA on both overall and upper division courses, and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree program; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Students enrolled in the pathway may count up to 9 hours of graduate level courses (i.e., 5000 level or higher) as credits for both the undergraduate and graduate degree programs. For each of the courses counted as credits for both BS and MS degree, a minimum grade of 'B' is required. Upon completion of the combined BS/MS pathway, students must have accumulated a minimum of 24 hours of credits at the graduate (5000+) level. Students enrolled in the pathway are encouraged to seek employment with a department faculty member to work as student assistants on sponsored research projects.

Doctor of Philosophy in Biomedical Engineering

The PhD program in Biomedical Engineering prepares graduates for industrial or academic research in one (or more) of three areas of specialization: 1) Basic research in engineered tissue model systems; 2) Diagnostic bioimaging and sensor systems; and 3) Therapeutic and reparative neurotechnology. Students can gain valuable exposure to clinical practice and research, and acquire real experience in the practice of engineering, product development, and commercialization. Semester-long clinical research experiences are provided, and students have the opportunity to participate in clinical/industrial R&D projects.

Admission Requirements

A prospective student must meet all admission requirements stipulated in the University's Graduate Policies and Procedures. In addition, the requirements for admission to the doctoral program in Biomedical Engineering are stated as follows:

1. A student seeking admission to the doctoral program must have a Bachelor's or Master's degree in Biomedical Engineering, or other closely related field from an accredited institution.
2. A GPA of at least 3.0/4.0 in the upper division coursework of applicant's Bachelor's degree and a GPA of at least 3.3/4.0 in the applicant's Master's degree are required.
3. GRE is required with no minimum score requirements. Applications with higher GRE scores will be considered more preferably.
4. Three letters of recommendation.
5. A statement of research interests and goals.
6. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

The Graduate Admission Committee will examine credentials of all applicants. Applicants who have not satisfied the above will be evaluated for probationary or waiver admission.

Degree Requirements

Credit Requirements

The PhD program requires a total of 75 credit hours beyond the BS degree. These credits are comprised of a minimum of 27 hours of coursework and a minimum of 15 hours of dissertation.

Applicants having a Master's Degree in Biomedical Engineering or closely related field from an accredited institution are given a maximum of 30 transferred semester hours. The graduate program committee and the academic adviser may recommend that applicants take additional courses based on their research needs and deficiencies. Applicants from science and engineering areas other than biomedical engineering will be expected

to complete undergraduate courses selected to prepare them for graduate courses in their area of interest. Full admission into the graduate program requires the completion of these background courses with no grades below "C" and a grade point average of 3.0 or better.

Course Requirements

The program of study will require completion of courses (beyond the BS degree) in the following categories:

***Biomedical Engineering* – minimum of 15 credits**
Courses in this area must cover the major and minor specialty areas of the student. The three current specialty areas within biomedical engineering are:

1. Basic research in engineered tissue model systems
2. Diagnostic bioimaging and sensor systems
3. Therapeutic and reparative neurotechnology

***Engineering Mathematics* – minimum of 6 credits**
Courses in this area must cover the broad areas of statistics and theoretical/numerical modeling. Example courses in each of these areas are:

Statistics

STA 5126	Fund Design of Experiments
	or
STA 6176	Biostatistics

Theoretical modeling

BME 6715	Mathematical Modeling of Physiological Systems
	or
BME 6716	Mathematical Modeling of Cellular Systems

Numerical modeling

BME 6705	Nonlinear Systems with Applications to Life Sciences

***Life Science* – minimum of 6 credits**
The life science courses maybe selected from approved electives such as:

BME 5410	Biomedical Physiology and Engineering I
BME 5411	Biomedical Physiology and Engineering II
BME 6019	Clinical Research Experience
PCB 6025	Molecular and Cellular Biology I
PCB 6027	Molecular and Cellular Biology II
PHZ 6255	Molecular Biophysics
CHM 5325	Physical Chemistry of Proteins
CHM 5506	Physical Biochemistry
CHM 5503	Physical Chem of Nucleic Acids

Biomedical Engineering Seminar

BME 7938	Doctoral BME Seminar	0

Qualifying Examination, Candidacy Requirements, and Final Defense

Students must demonstrate Graduate knowledge acquisition in three incremental stages in order to be awarded a PhD in Biomedical Engineering:

- Qualifying Exam
- Proposal Defense (oral and/or written)
- Final Defense (oral)

Qualifying Exam is offered twice a year: one at the end of Fall semester and the other at the end of Spring semester. Students entering the PhD with a Master's degree have to pass the Qualifying Exam within the first year in the PhD program. Students entering the PhD with a bachelor's degree, have to pass the Qualifying Exam within the first two years in the PhD program. In the semester prior to taking the Qualifying Exam, the student must declare an intention to take the exam and must declare a major area. In the event a student fails the Qualifying Exam, the student may retake it one more time the next time it is offered. A student who has successfully passed the Qualifying Exam and completed all the course work will be formally admitted to PhD candidacy.

The student will be required to prepare a formal dissertation proposal, and successfully defend the content of the proposal before his/her advisory committee. Immediately following the proposal defense, the student's dissertation committee will vote to pass the proposal, to have the student resubmit the proposal within six months, or to dismiss the student from the PhD program. A student can only resubmit his/her proposal once. The dissertation committee should be comprised of at least five members, at least three of whom should be biomedical engineering graduate faculty and at least one FIU graduate faculty member must be from outside biomedical engineering.

All students in the PhD program are required to complete a dissertation under the supervision of an advisor and committee. When the dissertation research is completed, the student should schedule a final defense with the examining committee. The dissertation, with an approval cover letter from the advisor, should be given to the examining committee for review not less than four weeks before the scheduled defense. The candidate should prepare to summarize the dissertation in the manner of a technical paper using appropriate visual aids in 40 minutes or less. Following the presentation, the candidate will answer questions related to the work from the audience and/or the committee. At the conclusion of the defense, the committee will agree upon the outcome pass or fail and report the results to the Graduate School. Following the exam the student will implement the committee's suggestions for improving the draft document. Each committee member must sign the approval form in the final document. Copies of the approved dissertation must be provided to the advisor, Department, and the University Graduate School. Students should become familiar with the University Graduate School's regulations and deadlines available online at **http://gradschool.fiu.edu**.

MS en Route for PhD Candidates

Doctoral candidates who have completed the requirements for the Master of Science degree in Biomedical Engineering and have filed the D-2 and D-3 forms that have been accepted by the University Graduate School will receive a Master of Science en route to the PhD in Biomedical Engineering, respectively.
Courses to be counted in the MS en route must have been taken at FIU. Transfer credits cannot be used for MS en route. Students must consult their Graduate Programs Director to ensure they qualify.

Course Descriptions

Definition of Prefixes

BME-Biomedical Engineering; EEE-Engineering: Electrical

and Electronics; EEL-Electrical Engineering; EGM-Engineering Mechanics

BME 5005 Applied Biomedical Engineering Principles (3). Biomedical engineering applications to instrumentation, transport phenomena, mechanics, materials and imaging. Prerequisite: Permission of the instructor.

BME 5036 Biotransport Processes (3). Transport of fluid, heat, and mass in the human body. Application to dialyzers and heart-lung devices. Prerequisites: BME 3632, BME 4100.

BME 5105 Intermediate Biomaterials Science (3). Materials used in prosthesis for skin and soft tissue, vascular implant devices, bone repair, and artificial joints. Structure-property relationships for biological tissue. Prerequisite: Permission of the instructor.

BME 5141 Introduction to Laboratory Skills and Materials in Prosthetics and Orthotics (1). Equipment and tools used in the fabrication of prostheses and orthoses; proper safety techniques and operating procedures; prosthetic and orthotic material characteristics.

BME 5200 Orthopedic Biomechanics (3). Introduction to the fundamentals of human musculoskeletal physiology and anatomy and computation of mechanical forces as it applies to orthopedic biomechanics. Prerequisite: BME 4100

BME 5213L Clinical Evaluation Tools (3). This course provides an in-depth review of those modern technologies useful for O&P practitioners to plan, assess, treat patients with orthopedic and neurological impairments.

BME 5214L Orthotic Management of the Lower Limb 1 (4). This course provides a comprehensive study of short- and long-term lower limb orthotic patient management distal to the knee.

BME 5215L Prosthetic Management of the Lower Limb 1 (4). This course provides a comprehensive study of short- and long-term lower limb prosthetic patient management distal to the knee.

BME 5218L Orthotic Management of the Spine (3). This course provides a comprehensive study of short- and long-term spinal orthotic patient management.

BME 5233 Biomechanics of Cardiovascular Systems (3). Functional cardiovascular physiology and anatomy; analysis and computation of cardiovascular flow; constitutive properties of tissue and analyses of relevant deformation and stress profiles. Prerequisite: Permission from instructor.

BME 5316 Molecular Bioprocess Engineering (3). Use of enzyme kinetics, bioreactor design, bioseparations and bioprocessing in the biomedical, biopharmaceutical, and biotechnology industries. Prerequisites: BCH 3033, BME 3632.

BME 5336 Cell/Tissue Engineering: Theory and Methodology (3). Overview of tissue engineering theory and practice with emphasis on cell behavior and morphology. Prerequisites: BME 5105, BME 3403/5702.

BME 5340 Introduction to Cardiovascular Engineering (3). Quantitative cardiovascular physiology, engineering applied to cardiovascular system: mechanics, materials, transport, and design.

BME 5350 Radiological Engineering and Clinical Dosimetry (3). Quantities for describing the interaction of radiation fields with biological systems. Absorption of radiant energy by biological systems. Applications to clinical dosimetry and radiation safety procedures. Prerequisite: Permission of the instructor.

BME 5358L Clinical Rotation in Radiation Oncology (3). Practical calibration of radiation therapy instruments, dose calculation and planning of radiation treatment under supervision of certified medical physicist. Prerequisite: BME 5505C.

BME 5410 Biomedical Physiology and Engineering I (3). Introductory course on cardiovascular and respiratory physiology and associated engineering concepts frequently encountered in the Biomedical Engineering field.

BME 5411 Biomedical Physiology and Engineering II (3). Introductory course on neural and musculoskeletal physiology and associated engineering concepts frequently encountered in the Biomedical Engineering field.

BME 5505C Engineering Foundation of Medical Imaging Instrument (3). Engineering basis of medical imaging systems, including radiology, X-Ray CT, SPECT, PET, MRI, and laser and ultrasound based imaging, as well as instrument quality assurance procedures. Prerequisite: Permission of the instructor.

BME 5560 Biomedical Engineering Optics (3). Introduction to physical and geometrical optics of biomedical optical devices. Design of optical microscopes, endoscopes, fiber optic delivery systems, spectrometers, fluorometers, and cytometers. Prerequisites: Calculus, Differential Equations, Chemistry, and Physics.

BME 5561 Geometrical Optics for Biomedical Engineers (3). The course introduces concepts and fundamental laws related to geometrical optics. The course will introduce optical components and their use in optical design of bioinstrumentation. Prerequisite: Calculus I

BME 5566L Biomedical Optical Laboratory (3). Hands on experiences to enhance the skills of designing and doing optical experiments, using optical components such as mirrors, fibers, and lasers to perform measurements imaging and analysis.

BME 5573 Nanomedicine (3). Nano-scale tools and nanomaterials that result in new medical products and applications with special emphasis on imaging, diagnosis, drug delivery, regenerative medicine as well as new biomaterials. Prerequisites: BME 5105 or permission of the instructor.

BME 5578 Bio- and Nanomedical Commercialization: Concept to Market (3). This course offers a comprehensive overview of elements involved in commercialization of bio and nano technology-based R&D.

BME 5726 Protein Engineering (3). Cloning, expressing and purifying proteins, and E. coli and Yeast expression

systems. Design of proteins for specific end uses. Prerequisite: Permission of the instructor.

BME 5731 Analysis of Physiological Control Systems (3). Quantitative analysis methods and modeling of the self-regulation processes that result in homeostatic conditions in physiological systems with special emphasis on processes found in the human body. Prerequisites: Permission of the instructor, EEL 3003 or EEL 3110, BME 3404.

BME 5803 Biomedical Device Design (3). User inputs; regulatory, ethical, societal, and environmental considerations; creativity; project management; prototype construction and testing; project feasibility; writing and oral communication. Prerequisite: Permission of the instructor.

BME 5804 Risk Analysis and Management of Biomedical Devices (3). Discuss the importance of risk management for medical devices and steps to implement it during the product development stage.

BME 5805 Regulatory Process for Medical Devices and Drugs (3). Understand the regulatory affairs environment, how to navigate and work with the FDA, and the steps and timetable to develop and commercially market medical devices and drugs in the USA and others.

BME 5935 Nanomedicine Seminar Series (1). This seminar series exposes students to research and innovation in the field of nanomedicine. Experts from hospitals, government, academia, and industry provide weekly rotating talks.

BME 5941 Biomedical Engineering Internship (1-3). Engineering practice in biomedical applications at an industrial partner's site. Intern will be hired through cooperative agreement to conduct collaborative research with supervision of advisor.

BME 6019 Clinical Research Experience (1). Students are matched with and then "shadow" a clinician during procedures (diagnostic and interventional), and research and development activities. Prerequisite: Permission of the instructor.

BME 6212 Solid Mechanics Applications in Physiological Systems (3). Solid mechanics and numerical methods as applied to analysis of the musculoskeletal system and trauma. Design application in orthotics and prosthesis and heart valves. Prerequisites: BME 4007 or permission of the instructor.

BME 6235 Advanced Cardiac Mechanics (3). Applications of principles of solid mechanics to the human cardiovascular system. 3-D reconstruction of the left ventricle, contractile properties and stress distribution in the myocardium. Prerequisite: BME 6212.

BME 6265 Fluid Mechanics Applications in Physiological Systems (3). Fluid mechanics principles including finite element and finite difference methods as it is applied to the analysis of various physiological systems will be covered. Process flow, diffusion and transport will be discussed in cardiovascular and pulmonary systems. Application of these primarily in the design of heart-lung machines, dialysis units, and heart valves will be discussed. Prerequisites: BME 4007 or permission of the instructor.

BME 6266 Advanced Biofluid Mechanics (3). Applications of fluid mechanics principles to human circulatory systems. Unsteady blood flow and wave propagation in elastic tubes. Influence of fluid dynamics on thrombosis and atherosclerosis. Prerequisite: BME 6265.

BME 6315 Cytomic and Proteomic Measurement Techniques (3). Principles and methods of cytomic, proteomic and genomic technology. Cellular probes, variance of protein expression. Description of the genome. Cytometry assays, protein structure, microarrays.

BME 6345 Advanced Cardiovascular Engineering (3). Engineering modeling, design, and measurements related to cardiovascular system, disease and diagnosis. Prerequisite: BME 5340.

BME 6351C Radiation Safety in Biomedicine (3). Theory and engineering basis of radiation safety in diagnostic and therapeutic radiology. Regulatory issues for the safe use of radiation in medicine. Prerequisite: BME 5350.

BME 6353C Advanced Radiation Dosimetry (3). State of the art of radiation treatment planning in radiation oncology. Intensity modulated radiation treatment methods and instruments.

BME 6359L Clinical Rotation in Diagnostic Radiology (3). Measuring of radiation fields for quality assurance of diagnostic radiology and nuclear medicine instruments under supervision of a certified medical physicist. Prerequisite: BME 5505C.

BME 6421 Electrophysiological Phenomena in Biological Tissues (3). Provide a balanced understanding of the origin of major electrical phenomena in biology with emphasis on the genesis and data analysis of the electro- and magneto- encephalography. Prerequisite: Permission of the instructor.

BME 6501 Applied Biomedical and Diagnostic Measurements (3). Fundamentals of biomedical measurements and the design of biomeasurement systems and devices. This includes transducers and electrodes, EMG, EEG, ECG and medical imaging techniques, and electrical safety. Prerequisites: BME 4007 or permission of the instructor.

BME 6532 Molecular Imaging (3). Synthesis of PET and SPECT radiopharmaceuticals and optical imaging agents, pharmacokinetics and experimental models of molecular imaging tracer kinetics, imaging of molecular processes and function. Prerequisite: Permission of instructor.

BME 6545 Biosensors and Nanobioelectronics (3). Advanced topics in the design and practical application of bioelectronic devices such as biosensors, DNA nanowires, analytical electrochemistry and biomolecular electronics. Prerequisites: Permission of the instructor, CHM 1046, BCH 3033.

BME 6563 Optical Spectroscopy (3). Introduction to the scientific principles of optical spectroscopic technologies and their usage in the field of medicine. Prerequisite: Permission of the instructor.

BME 6564 Optical Imaging Biomedicine (3). Optical techniques for imaging the structure and function of biological tissues. Modeling of light transport in tissue (forward problem) and image reconstruction (inverse problem). The basic physics and engineering of each

optical based imaging technique will be covered. Prerequisites: BME 4562 or BME 5560, MAP 2302.

BME 6565 Quantitative Microscopy and Visualization (3). Practical and useful projects in optical, confocal, near field, scanning probe and other advanced microscopy and cytometry. Spatial and spectral quantitation of physiologic measures in living tissue. Prerequisite: Permission of the instructor. Corequisite: BME 5560.

BME 6645 Drug Transport Modeling (3). Theoretical and experimental models of drug transport systems, computer simulations of fluid and mass transport in biomedical systems, pharmacokinetics modeling and molecular imaging. Prerequisite: Permission of instructor.

BME 6705 Nonlinear Systems with Applications to Life Sciences (3). Concepts and applications of nonlinear dynamics to life sciences. Specific nonlinear models arising from biology and medicine will be investigated using computer simulations. Prerequisite: Permission of the instructor.

BME 6715 Mathematical Modeling of Physiological Systems (3). Engineering modeling, design, and measurements related to cardiovascular system, disease and diagnosis. Prerequisite: Permission of the instructor.

BME 6716 Mathematical Modeling of Cellular Systems (3). Development of mathematical modeling techniques for engineers using cellular systems as an application. Biochemical reactions, membrane potentials, excitable cells, wave propagation, cellular regulation. Prerequisite: Permission of the instructor.

BME 6717 Computational Analysis and Simulation of Physiological Processes (3). Study of advanced computational techniques in BME. Focus on execution (in MATLAB), conceptualization, analysis of the relevant literature, and oral presentation of results. Corequisite: STA 4202 or STA 4234 or STA 5236 or STA 6176 or STA 6746

BME 6335 Artificial Organs (3). Theoretical and experimental models of artificial organs for drug delivery, extracorporeal devices, oxygenators, models of tissue engineered organs, computer simulations of fluid and mass transport. Prerequisites: Permission of instructor.

BME 6763 Bioinformatics in Cytomics (3). Biomedical data archiving, analysis and visualization. Medical imaging, microscopy imaging, multiparameter cytometry sensors, protein and gene sequencing data processing are emphasized.

BME 6905 Independent Studies (1-3). Individual research studies for qualified biomedical engineering graduate students. Work is to be performed under the supervision of an advisor.

BME 6907 BME Master's Project (3). Individual work culminating in a professional practice-oriented report suitable for the requirements of the Professional Track of the MS program in biomedical engineering. Prerequisite: Permission of the instructor.

BME 6910 Supervised Research (1-9). Graduate level biomedical engineering research carried out under the supervision of a faculty member.

BME 6933 Workshop in Biomedical Engineering Techniques (1). A short intensive treatment of specialized research topics or techniques in biomedical engineering. May be repeated for credit with different subject content. Prerequisite: Permission of the instructor.

BME 6936 Biomedical Engineering Seminar (0). Problems in Biomedical Engineering and results of ongoing research will be presented and discussed by invited experts. Prerequisite: Permission of the instructor.

BME 6970 Master's Thesis (1-6). Master's thesis on Biomedical Engineering is to be submitted and an oral presentation is to be made. Thesis should contain aspects of design to fulfill requirements for combined BS/MS program. Prerequisite: Advisor's permission.

BME 7334C Cell/Tissue Engineering: Methods and Applications (4). Overview of tissue engineering theory and practice with emphasis on cell behavior and morphology. Prerequisite: BME 6330.

BME 7938 Doctoral Biomedical Engineering Seminar (0). The course consists of oral presentations made by guests, faculty and graduate students on advanced topics and current research activities in Biomedical Engineering. Prerequisites: Permission of the major professor and Doctoral Candidacy.

BME 7980 Ph.D. Dissertation (1-12). Doctoral Research leading to the Ph.D. Biomedical engineering dissertation. Prerequisites: Permission of the major professor and Doctoral Candidacy.

EEE 5261 Bioelectrical Models (3). Engineering models for electrical behavior of nerve and muscle cells, electrode-tissue junctions, volume conductions in tissue and the nervous system as an electrical network. Prerequisites: EEE 4202C or permission of the instructor.

EEE 5275 Bioradiation Engineering (3). Spectrum of radiation sources, types of fields, properties of living tissue, mechanisms of field propagation in tissue. Applications in imaging and therapy, hazards and safety. Prerequisites: EEL 4410 or permission of the instructor.

EEE 6285 Biosignal Processing I (3). Characterizing biosignals by application of time and frequency domain analytic methods. Comparison of analog and digital processing. Engineering design for VLSI implementations in implantable devices. Prerequisites: EEE 4202C and EEE 6502 or permission of the instructor.

EEE 6286 Biosignal Processing II (3). Engineering design of advanced systems for processing biosignals. Methods for signal compression. Adaptive systems for automatic recognition. Application of artificial intelligence for signal classification. Prerequisites: EEE 6285 or permission of the instructor.

EEL 5820 Digital Image Processing (3). Image Fundamentals, Image Transforms, Image Enhancement, Edge Detection, Image Segmentation, Texture Analysis, Image Restoration, and Image Compression. Prerequisites: EEL 3135 and knowledge of any programming language (FORTRAN, Pascal, C).

EEL 6816 Electronic Neural Systems (3). This course bridges electronics to the understanding of neurobiologically inspired models. Biological tasks and neural computations are studied in the context of networks and processing elements. Prerequisite: Permission of the instructor.

EEL 6821 Computer Vision (3). Image formation and image properties, radiance and irradiance, introduction to brain topography, color vision, visual machinery of the brain, statistical pattern classification and decision functions, the eigensystem and its computational aspects, stereo vision, motion vision, size and orientation independence. Prerequisite: EEL 5820.

EEL 6836 Computer Visualization of Brain Electrical Activity (3). Computer techniques for the visualization of brain electrical activity. Analysis of the origin of this activity as it relates to its measurement and visualization through computerized systems. Prerequisites: EEE 4510 or permission of the instructor.

Civil and Environmental Engineering

Atorod Azizinamini, Ph.D., P.E., *Vasant H. Surti Professor and Director, Moss School of Construction, Infrastructure and Sustainability*
Priyanka Alluri, Ph.D., P.E., *Associate Professor*
Anna Bernardo Bricker, Ph.D., *Associate Teaching Professor and Environmental Lab Manager*
Carlos M. Chang, Ph.D., P.E., *Associate Professor*
Arindam G. Chowdhury, Ph.D., *Professor, Director NHERI, and Co-Director, Laboratory for Wind Engineering Research*
Ali Ebrahimian, Ph.D., *Assistant Professor*
Amal Elawady, Ph.D., *Assistant Professor*
Hector R. Fuentes, Ph.D., P.E., B.C.E.E., *Professor*
Albert Gan, Ph.D., *Professor*
David Garber, Ph.D., P.E., *Associate Professor and Interim Chair*
Mohammed Hadi, Ph.D., P.E., *Professor*
Xia Jin, Ph.D., P.E., *Associate Professor*
Khokiat Kengskool, Ph.D., *Associate Teaching Professor*
Kingsley Lau, Ph.D., *Associate Professor*
Seung Jae Lee, Ph.D., *Associate Professor*
Arturo Leon, Ph.D., *Associate Professor*
Cora Martinez, Ph.D., *Associate Teaching Professor and Associate Chair*
Armin Mehrabi, Ph.D., P.E., MBA, *Associate Professor and Graduate Program Director*
Emil Simiu, Ph.D., *Professor of Practice*
Lambert Tall, Ph.D., P.E., *Professor Emeritus*
Walter Z. Tang, Ph.D., P.E., *Associate Professor*
Berrin Tansel, Ph.D., P.E., *Professor and Undergraduate Program Director*
LeRoy E. Thompson, Ph.D., P.E., *Professor Emeritus*
Oktay Ural, Ph.D., *Professor Emeritus*
Ioannis Zisis, Ph.D., *Associate Professor and Co-Director, Laboratory for Wind Engineering Research*

Affiliated Faculty
Assefa M. Melesse, Ph.D., P.E., *Earth and Environment*

Lehman Center for Transportation Research

Mohammed Hadi, Ph.D., P.E., *Director*
Albert Gan, Ph.D., *Deputy Director*

Accelerated Bridge Construction University Transportation Center (ABC-UTC)

(www.abc-utc.fiu.edu)
Atorod Azizinamini, Ph.D., P.E., *Director*
David Garber, Ph.D., P.E., *Co-Director*
Armin Mehrabi, Ph.D., P.E., MBA, *Co-Director*

The Department of Civil and Environmental Engineering offers advanced study for the degree of Master of Science and Doctor of Philosophy. Degrees offered include: Master of Science in Civil Engineering, Master of Science in Environmental Engineering, and Doctor of Philosophy in Civil Engineering. The areas of specialty are Structures, Mechanics, Geotechnical, Construction, Transportation, Water Resources, and Environmental Engineering.

Master of Science in Civil Engineering

The Master of Science program in Civil Engineering emphasizes course work as well as research. The student is required to specialize in a defined area of civil engineering, but may broaden knowledge through studies combining subject material from different areas of specialization and interdisciplinary related courses.

The graduate degree is offered to prepare qualified students for the professional practice of or advanced academic research in civil engineering. The degree is available in either a thesis or non-thesis program. The thesis program entails a minimum of six credits for the successful completion of research and a thesis. The non-thesis program must be supported by either the successful completion of an engineering project and a report of substantial engineering content for a minimum of three credits or the all-course option. A student must satisfactorily complete a minimum of 30 semester credits of acceptable graduate course work.

Master of Science in Environmental Engineering

A Master of Science in Environmental Engineering is available to students interested in graduate work in Environmental Engineering. The program is designed to expose graduate students to a wide range of knowledge on environmental engineering and on problem solving while encouraging them to pursue individual research interests. Thus, the curriculum has a common core of courses but is flexible enough to permit an interdisciplinary approach, if so desired, and allows the student to pursue his or her career goals.

The applicant should hold a Bachelor's degree in engineering, the natural sciences, or a closely related field. Students who do not meet the stated criteria may be considered for admission if they satisfy deficiencies and complete required prerequisites. A student must satisfactorily complete a minimum of 30 semester credits of acceptable graduate courses, including either a master thesis or an engineering project or the all-course option.

Admission Policies for Master of Science Programs

A student seeking admission into the Civil Engineering or the Environmental Engineering graduate program must have a bachelor's degree in Civil Engineering, Environmental Engineering, or related engineering or equivalent from an accredited institution or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level. The minimum requirements for admission to the Master programs are:

1. At least a "B" average in upper level undergraduate work, and
2. A bachelor's degree in engineering, science, or a closely related field from an accredited institution, and
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required, and
4. Three letters of recommendation or the forms provided by the department, and

5. A statement of objectives in which, in addition to other information, the intended concentration must be clearly stated, and
6. A resume including contact information, education and employment history, practical and research experiences (such as projects and publications), skills and other pertinent information.

Students who meet all criteria, except for requirements 1 and 2 above, may be evaluated for conditional admission. Meeting the minimum requirements does not guarantee admission to the programs.

Grades earned at an institution with non-traditional grading systems will be given every consideration and applicants will be treated equally as are students from institutions with traditional grading systems.

Application Procedures for Master of Science Programs

A student planning to enroll in the graduate program must complete the following:

1. Submit an online Graduate Application for Admission to the Graduate Admissions Office.
2. Have a copy of the official transcripts of all previously earned college or university credits sent from the applicant's former institution(s) to the Graduate Admissions Office.
3. Submit three letters of recommendation, statement of objectives, and resume as part of the online Graduate Application for Graduate Admissions Office.
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

It should be emphasized that the admission cannot be acted upon until all of the documents and credentials have been received.

Students seeking a waiver to normal admissions standards must contact the departmental main office for filing instructions and deadlines.

Degree Requirements for Master of Science Programs

To be eligible for a Master's degree a student must:

1. Satisfy all University requirements for a Master's degree.
2. Meet all undergraduate deficiencies, and requirements as specified by the students' advisory committee.
3. Complete 30 semester hours of acceptable graduate level courses, including up to 3 credits of an Independent Study course. Supervised Research credits are not counted toward the 30 credit degree requirement.
4. Optionally, complete an acceptable thesis (minimum six credits) or engineering project (minimum three credits).
5. Successfully complete the core courses defined for the student's chosen specialty area.
6. Earn a minimum grade point average of 3.0 in all approved courses in the student's program of study.
7. Complete CGN 6939 Graduate Seminar.
8. For students who chose the thesis option, they must get approval and written evaluation of the oral defense and written thesis by their thesis committee. The committee should have, at a minimum, three graduate faculty members, and each member must complete and sign the student evaluation.
9. For students who chose the engineering project option, they must get approval and written evaluation of the oral defense and written engineering project by their project committee. The committee should have, at a minimum, three graduate faculty members, and each member must complete and sign the student evaluation.
10. For students who chose the non-thesis and non-engineering project (all-course) option, they must present a 5-page written report (in the format of a journal article) and an oral presentation (in CGN 6939) of a selected topic that demonstrates substantial professional engineering knowledge and experience. The written report and oral presentation must be evaluated and the student evaluation forms must be completed and signed by two departmental graduate faculty members, at a minimum, and then used by the CGN 6939 instructor to issue a P/F grade. The seminar will be scheduled and will be announced to students and faculty at least one week in advance in the last semester of the student's program.

Core Courses

In order to master real-life engineering problems, engineers need to have an education with both breadth, as well as depth. Therefore, in addition to the above degree requirements, students must choose an area of technical specialization upon enrollment and satisfy the core course requirements as defined below. A proposed program of study shall be developed by a student's academic advisor together with the student and approved by the Graduate Program Director. All students are strongly encouraged to take the Research Methods for Civil Engineers course - especially those who are pursuing the thesis option. Students are also required to register for the 0-credit Graduate Seminar (CGN 6939) at least once and are encouraged to take it each Fall and Spring semesters.

Areas of Technical Specialization:

Environmental Engineering

Environmental engineering students are required to take at least one course in each of the following core areas:

1. Water supply/wastewater/water quality,
2. Air quality,
3. Soil/solid/hazardous waste, and
4. Water resources (including groundwater).

Furthermore, it is advisable that students gain some expertise in environmental chemistry and in computational techniques including GIS techniques, while seeking knowledge in new areas of research and development.

Students are also required to register for the zero-credit Graduate Seminar (CGN 6936) and are encouraged to participate in it each semester.

Water Resources Engineering

This field involves the analysis of qualitative and quantitative water issues and the search for integrated,

innovative and sustainable solutions to problems in the surface, groundwater, and atmospheric water environments.

Students pursuing a M.S. in Civil Engineering with concentration in Water Resources Engineering will follow a program of study that includes 15 credit-hours of engineering coursework emphasizing advanced knowledge and applications in either hydrology, hydraulics or hydrosystems or their combination thereof. The students will also complete a three credit-hour independent study to enrich the area of sought expertise.

Students are also required to comply with the following core requirements:

1. Take one course (3 credit-hours) among the following three background courses:
   - CWR 5305 Surface Hydrology
   - CWR 5125 Groundwater Hydrology
   - CWR 5140C Ecohydrology
2. Take one among the following applied courses:
   - CWR 5235 Open Channel Hydraulics
   - CWR 5535 Advanced Modeling Applications in Water Resources Engineering
   - CWR 6236 Engineering Sediment Transport

Students are required to take the Graduate Seminar (CGN 6939) once and are strongly encouraged to attend it while registering in the program. Students may also include up to six credit hours from other civil engineering areas or related disciplines, as long as the subjects relevantly add to the student's water resources engineering knowledge.

Structural Engineering

Students pursuing a M.S. in Civil Engineering with concentration in Structural Engineering will take at least twelve (12) credit hours of elective courses in structural engineering relevant to their track. A maximum of six (6) credits taken outside of the Civil and Environmental Engineering Department to enhance knowledge from related disciplines can be applied, upon approval of the academic advisor (or major professor), to graduation requirements. Furthermore, it is advisable that students gain some expertise in numerical methods.

Students in the Structural Engineering track are required to take at least six (6) credit hours of core course work as follows:

1. One course (3 credits) in design of structures from the following:
   - CES 5325 Design of Highway Bridges
   - CES 5606 Advanced Structural Steel Design
   - CES 5715 Prestressed Concrete Design
   - CES 5800 Timber Design
   - CES 6706 Advanced Reinforced Concrete Design
2. One course (3 credits) in analysis of structures from the following:
   - CES 5106 Advanced Structural Analysis
   - CES 5587 Topics in Wind Engineering
   - CES 6209 Advanced Structural Dynamics
   - EGM 5421 Structural Dynamics

Construction Engineering

Students pursuing a M.S. in Civil Engineering with concentration in Construction Engineering will follow a program of study that includes at least fifteen (15) credit-hours of civil engineering coursework that focuses on knowledge and applications within Construction Engineering of civil and environmental engineering infrastructure. The students will also complete a three (3) credit-hour independent study to enrich their graduate experience. Furthermore, it is advisable that students gain expertise in state-of-the-art computational methods in construction engineering.

Students in the Construction Engineering track are required to take at least six (6) credit hours of core course work from the following:

1. CCE 5035 Construction Engineering Management;
2. CCE 5036 Advanced Project Planning for Civil Engineers
3. CCE 5405 Advanced Heavy Construction Techniques

Geotechnical Engineering

Students pursuing a M.S. in Civil Engineering with concentration in Geotechnical Engineering will follow a program of study that includes at least fifteen (15) credit-hours of civil engineering coursework that focuses on knowledge and applications to the Geotechnical Engineering of civil and environmental engineering infrastructure. The students will also complete a three (3) credit-hour independent study to enrich their graduate experience. Furthermore, it is advisable that students gain expertise in state-of-the-art computational methods in construction engineering.

Students in the Geotechnical Engineering track are required to take at least six (6) credit hours of core course work from the following:

1. CEG 5065 Geotechnical Dynamics
2. CEG 6017 Theoretical Geotechnical Mechanics; and
3. CEG 6105 Advanced Foundations Engineering

Transportation Engineering

Transportation engineering is concerned with the planning, design, operation, and maintenance of the transportation infrastructure and systems. A student who chooses to specialize in transportation engineering must complete a minimum of five courses from the list below:

TTE 5205	Advanced Highway Capacity Analysis
TTE 5215	Fundamentals of Traffic Engineering
TTE 5607	Transportation Demand Analysis
TTE 5805	Advanced Geometric Design of Highways
TTE 6257	Traffic Control Systems Design
TTE 6506	Mass Transit Planning
CGN 5320	GIS Applications in Civil and Environmental Engineering

Students are also required to register for the zero-credit Graduate Seminar (CGN 6936) and are encouraged to participate in it each semester.

Independent Study Course

A student may take up to a total of three credits of independent study, which will be letter graded. If a student needs a course that will not be offered during the student's course of study, special topics courses should be set up to meet the student's needs. There will be no limit on the number of special topics courses provided that the core course requirements are satisfied.

Grades and Credits

No course in which a grade below a 'C' is earned may be counted toward a Master of Science degree.

Transfer Credit

The student may receive permission to transfer up to a maximum of six semester hours of graduate credit earned from another institution or up to 12 semester hours of graduate credit earned as a non-degree seeking students at FIU after admitted into one of the graduate programs in the Civil and Environmental Engineering Department. Such credits are transferable provided that: (1) the course(s) were taken at the graduate level at an accredited college or university; (2) grade(s) of 'B' or higher were earned for the courses; (3) the course(s) are judged relevant by the student's advisory committee; (4) the credits were not used toward another degree; and (5) the credit(s) were completed within six years immediately preceding the awarding of the degree.

Credits are not transferable until the student has earned 12 semester hours in the graduate programs in the Department of Civil Engineering and Environmental Engineering.

Time Limit

All work applicable to the Master's degree, including transfer credits, must be completed within six years of first enrollment in the master's program.

Combined BS/MS in Civil Engineering Degree Pathway

Students who pursue a BS degree in Civil Engineering and have completed 75 credits and have at least a 3.3 GPA on both overall and upper division courses may apply to enroll in the combined BS/MS pathway in Civil Engineering upon recommendation from three CEE faculty members. In addition to the admission requirements of the combined BS/MS pathway, students must meet all the admission requirements of both the department and the University Graduate School. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students enrolled in the pathway may count up to nine credit hours of CEE graduate courses as credits for both the BS and MS degrees. The combined BS/MS pathway has been designed to be a continuous enrollment pathway. However, upon completion of all the requirements of the undergraduate program, students will receive their BS degrees. Students in this pathway have up to one year to complete the master's degree after receipt of the bachelor's degree. Students who fail to meet this one year post BS requirement or who elect to leave the combined pathway at any time and earn only the BS degree will have the same access requirements to regular graduate programs as any other student, but will not be able to use the nine credits in both the bachelor's and master's degrees.

For each of the graduate courses counted as credits for both BS and MS degree, a minimum grade of B is required. All double counted courses must be at 5000 level or higher. Students enrolled in the pathway may count up to nine credit hours of CEE graduate courses toward the elective engineering BS requirements as well as toward the MS degree. Only graduate courses with formal lectures can be counted for both degrees. The students are responsible for confirming the eligibility of each course with the Undergraduate Advisor.

Students interested in the pathway should consult with the Undergraduate Advisor on their eligibility for the pathway. The students should also meet the Graduate Program Director to learn about the graduate program and available courses before completing the application form and submitting it to the Undergraduate Advisor. Applicants will be notified by the department and the University Graduate School of the decision on their applications.

Undergraduate students enrolled in the pathway are encouraged to seek employment with a department faculty to work as student assistants on sponsored research projects. The students will be eligible for graduate assistantships upon full admission into the graduate school.

Combined BS in Civil Engineering/MS in Environmental Engineering Degree Pathway

Students who pursue a BS degree in Civil Engineering and are in their senior year and have at least a 3.3 GPA on both overall and upper division courses may apply to the department to enroll in the combined BS (Civil)/MS pathway in Environmental Engineering upon recommendation from three CEE faculty members. To be considered for admission to the combined bachelor's/masters degree pathway in Environmental Engineering, students must have completed at least 75 credits in the bachelor's degree program in Civil Engineering at FIU and meet the admissions criteria for the graduate degree program at FIU and meet the admissions criteria for the graduate degree program to the which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to the Graduate Admissions typically before the student starts the last 30 credit of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and will be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the credits specified by the program catalog, may be applied toward both degrees. In addition to the admission requirements of the combined BS/MS pathway, students must meet all the admission requirements of both the department and the University Graduate School.

Students enrolled in the pathway may count up to nine credit hours of CEE graduate courses as credits for both the BS and MS degrees. The combined BS/MS pathway has been designed to be a continuous enrollment pathway. However, upon completion of all the requirements of the undergraduate program, students will receive their BS degrees. Students in this pathway have up to one year to complete the master's degree after receipt of the bachelor's degree. Students who fail to meet this one year post BS requirement or who elect to leave the combined pathway at any time and earn only the BS degree will have the same access requirements to regular

graduate programs as any other student, but will not be able to use the nine credits in both the bachelor's and master's degrees.

For each of the graduate courses counted as credits for both BS and MS degree, a minimum grade of "B" is required. All double counted courses must be at 5000 level or higher. Students enrolled in the pathway may count up to nine credit hours of CEE graduate courses toward the elective engineering BS requirements as well as toward the MS degree. Only graduate courses with formal lectures can be counted for both degrees. The students are responsible for confirming the eligibility of each course with the Undergraduate Advisor.

Students interested in the pathway should consult with the Undergraduate Advisor on their eligibility for the pathway. The students should also meet the Graduate Program Director to learn about the graduate program and available courses before completing the application form and submitting it to the Undergraduate Advisor. Applicants will be notified by the department and the University Graduate School of the decision on their applications.

Undergraduate students enrolled in the pathway are encouraged to seek employment with a department faculty to work as student assistants on sponsored research projects. The students will be eligible for graduate assistantships upon full admission into the graduate school.

Combined BS/MS in Environmental Engineering Degree Pathway

Students who pursue a BS degree in Environmental Engineering and are in their senior year and have at least a 3.3 GPA on both overall and upper division courses may apply to the department to enroll in the combined BS/MS pathway in Environmental Engineering upon recommendation from three CEE faculty members. To be considered for admission to the combined bachelor's/masters degree pathway in Environmental Engineering, students must have completed at least 75 credits in the bachelor's degree program in Environmental Engineering at FIU and meet the admissions criteria for the graduate degree program at FIU and meet the admissions criteria for the graduate degree program to the which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to the Graduate Admissions typically before the student starts the last 30 credit of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and will be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the credits specified by the program catalog, may be applied toward both degrees. In addition to the admission requirements of the combined BS/MS pathway, students must meet all the admission requirements of both the department and the University Graduate School.

Students enrolled in the pathway may count up to nine credit hours of CEE graduate courses as credits for both the BS and MS degrees. The combined BS/MS pathway has been designed to be a continuous enrollment pathway. However, upon completion of all the requirements of the undergraduate program, students will receive their BS degrees. Students in this pathway have up to one year to complete the master's degree after receipt of the bachelor's degree. Students who fail to meet this one year post BS requirement or who elect to leave the combined pathway at any time and earn only the BS degree will have the same access requirements to regular graduate programs as any other student, but will not be able to use the nine credits in both the bachelor's and master's degrees.

For each of the graduate courses counted as credits for both BS and MS degree, a minimum grade of "B" is required. All double counted courses must be at 5000 level or higher. Students enrolled in the pathway may count up to nine credit hours of CEE graduate courses toward the elective engineering BS requirements as well as toward the MS degree. Only graduate courses with formal lectures can be counted for both degrees. The students are responsible for confirming the eligibility of each course with the Undergraduate Advisor.

Students interested in the pathway should consult with the Undergraduate Advisor on their eligibility for the pathway. The students should also meet the Graduate Program Director to learn about the graduate program and available courses before completing the application form and submitting it to the Undergraduate Advisor. Applicants will be notified by the department and the University Graduate School of the decision on their applications.

Undergraduate students enrolled in the pathway are encouraged to seek employment with a department faculty to work as student assistants on sponsored research projects. The students will be eligible for graduate assistantships upon full admission into the graduate school.

Doctor of Philosophy in Civil Engineering

Minimum Admission Requirements

The minimum requirements for admission to the doctoral degree program in Civil Engineering are:

1. Applicants having a Master's degree in Civil Engineering or Environmental Engineering (the latter for those applicants seeking the environmental area of specialization only) from a U.S. institution must satisfy the following requirements for admission to the doctoral program:
   a. GPA of at least 3.3/4.0 in the master's program
   b. Official GRE scores
   c. Three letters of recommendation or recommendation forms provided by the department
   d. A statement of objectives in which, in addition to other information, the intended research area must be clearly stated. (see identification of Research Area)
   e. A resume containing contact information, education and employment history, practical and research experiences (including publications), skills and other pertinent information.
2. Credentials of all other applicants including those with foreign degrees and those with B.S. degrees in disciplines other than Civil Engineering (or Environmental Engineering) will be examined by the Graduate Program Advisory Committee on a case by case basis. Additional credentials that will be

considered include, but are not limited to, work experience, awards and recognitions, publications and presentations, and other professional experience.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
4. In addition to the departmental requirements, all students must satisfy the University's Admission and Graduate Policies and Procedures.

Degree Requirements

Maximum Length of Study
The maximum length of study is seven years for students admitted with an acceptable B.S. degree and six years for students with an acceptable M.S. degree. For those students who have not completed their studies within these limits, the length of study may be extended on a yearly basis after petition by the student and approval by the student's supervisory committee. Any extension beyond nine years must be approved by the University Graduate School.

Identification of Research Area
There are currently three main areas of research or specialization: (1) Structural, Geotechnical, and Construction Engineering; (2) Environmental and Water Resources Engineering; and (3) Transportation Engineering. The student must contact the Department for a list of all faculty members, visit them, and be accepted by one professor to guide the dissertation research. If no such professor can be found, within 15 months of admission, the student will be dismissed from the Ph.D. program.

Course Requirement
The program will consist of at least 75 semester credit hours beyond the baccalaureate degree, 54 hours of which are course work and 15 hours dissertation, or at least 45 semester credit hours beyond the M.S. degree, 24 hours of which are course work and 15 hours dissertation. Applicants who have a Master's degree in Civil Engineering or Environmental Engineering (the latter for those applicants seeking the environmental area of specialization only) or a closely related engineering field from an accredited institution may be given a maximum of 30 transferred semester credit hours. In addition to the above requirements, the selection of courses must meet the following requirements for credits beyond the Master's degree:
1. Minimum three credits in Mathematics or Statistics
2. Minimum 18 core credits (see exception under Core Courses below) in the selected major area in Civil Engineering (or Environmental Engineering).
3. Any deviation from requirements 1 and 2 above must be justified in writing and approved by the departmental Graduate Program Director.
4. Complete CGN 6939 – Graduate Seminar.

Additional engineering courses (3000 and 4000 level) may be required as deficiencies for students coming from other engineering and non-engineering majors.

All courses and dissertation topics must be approved by the student's dissertation committee. A proposed program of study shall be developed by a student's major professor together with the student and approved by the Graduate Program Director.

Core Courses
All Ph.D. students must satisfy the core course requirements defined for the MS degree programs, except those students who, upon admission, have completed an eligible and acceptable BS and MS degrees programs in Civil Engineering. A student may take other courses, preferably at the 6000-level and above, in the specialty as well as in other areas to meet the minimum 18 hours of departmental coursework requirement, as approved by the major professor and the dissertation committee, provided all the core courses have been completed previously during the MS program or will be completed in the Ph.D. program. In addition, all doctoral students are required to take the Research Methods for Civil Engineers courses before or during the first semester of dissertation credits. Students are also required to register for the 0-credit Graduate Seminar (CGN 6939) at least once and are encouraged to take it each Fall and Spring semesters.

Directed Independent Study Course (CGN 6905)
A student may take up to a total of three credits of directed independent study, which will be letter graded. If a student needs a course that will not be offered during the student's course of study, special topics in civil engineering courses should be set up to meet the student's needs. There will be no limit on the number of special topics courses provided that the core course requirements are satisfied.

Dissertation Committee
The student's dissertation committee should be appointed as soon as possible and within the 15-month period after the student has been admitted to the Ph.D. program. The committee must have a minimum of four eligible faculty members, at least three from the Department of Civil & Environmental Engineering, and at least one from outside the department, but within FIU. All committee members should have a Ph.D. degree and must be members of the graduate faculty. The major professor must hold dissertation advisor status. The dissertation committee should meet as early as possible to review student's background, discuss student's expected research areas, provide guidance on course selection, etc.

Residency Requirements
The Ph.D. student should spend at least one academic year in full residency, after successfully passing his/her Comprehensive Examination (see the following description).

Examinations
A student must successfully complete the following written exam and oral defenses in partial fulfillment of requirements for the Ph.D. degree in Civil Engineering:
1. Qualifying Exam: The Qualifying Exam must be taken as soon as possible and no later than the semester the student completes the minimum applicable course requirements. The exam consists of eight problems covering materials from core courses as determined by the student's dissertation committee. The exam will be open-book and the student will be given eight hours to solve all eight problems. In the event that a student fails the exam, he or she can retake it only once in the subsequent semester.
2. Proposal Defense: The proposal defense must be completed at least one year prior to the expected

graduation date. In addition to the five-page proposal (brief version) required by the University Graduate School, the student must prepare a detailed proposal that contains, at a minimum, background information, problem statement, objectives, literature review, methodology, work plan, and schedule. The proposal must be submitted to each committee member at least two weeks prior to the defense date. The defense will be given in the form of a graduate seminar that is open to all faculty, students, and visitors. A student can take the proposal defense twice.

3. Dissertation Defense: A draft dissertation must be submitted to each committee member at least six weeks prior to the date of the defense. The defense will be given in the form of a graduate seminar that is open to all faculty, students, and visitors. A student can fail this defense only once. In addition to dissertation copies to the University Graduate School, the student must deliver one final approved bound copy to the Department Chairperson, one to the major professor, and one to each member of the dissertation committee. Students should become familiar with the University Graduate School's policies, procedures, regulations and deadlines available on line at **http://gradschool.fiu.edu**.

MS en Route for PhD Candidates

Doctoral candidates who have completed the requirements for the Master of Science degree in Civil Engineering or Environmental Engineering and have filed the D-2 and D-3 forms that have been accepted by the University Graduate School will receive a Master of Science en route to the PhD in Civil Engineering or Environmental Engineering, respectively. Courses to be counted in the MS en route must have been taken at FIU. Transfer credits cannot be used for MS en route. Students must consult their Graduate Programs Director to ensure they qualify.

Course Descriptions

Definition of Prefixes

CES-Civil Engineering Structures; CEG-Engineering General, Civil; CGN-Civil Engineering; CWR-Civil Water Resources; EES-Environmental Engineering Science; EGM-Engineering, Mechanics; EGN-Engineering, General; ENV-Environmental Engineering; TTE-Transportation and Traffic Engineering; URP-Urban and Regional Planning

CCE 5035 Construction Engineering Management (3). Course will cover construction organization, planning and implementation; impact and feasibility studies; contractual subjects; liability and performance; the responsibility of owner, contractor and engineer. Prerequisites: CES 3100 or equivalent and CEG 4011 or equivalent.

CCE 5036 Advanced Project Planning for Civil Engineers (3). Advanced techniques and methods for planning activities, operations, finance, budget, workforce, quality, safety. Utilize case studies as learning tools for students aspiring to management positions. Prerequisites: CCE 4031 or equivalent.

CCE 5405 Advanced Heavy Construction Techniques (3). Heavy construction methods and procedures involved in large construction projects such as bridges, cofferdams, tunnels, and other structures. Selection of equipment based on productivity and economics. Prerequisite: CCE 4001.

CCE 5505 Computer Integrated Construction Engineering (3). Course covers the discussion of available software related to Construction Engineering topics; knowledge based expert systems and their relevance to construction engineering planning and management. Prerequisites: CCE 4031 or equivalent.

CEG 5065 Geotechnical Dynamics (4). Analytical, field, and laboratory techniques related to vibration problems of foundations, wave propagations, behavior of soils and rocks, earth dams, shallow and deep foundations. Earthquake engineering. Prerequisite: CEG 4011.

CEG 6017 Theoretical Geotechnical Mechanics (3). A continuum mechanics interpretation of geotechnical engineering; soil rheology; theories of yielding; failure and plastic stability. Analytical and numerical modeling of non-linear properties. Prerequisites: CEG 4012C and MAP 2302. Suggested corequisite: MAP 4401.

CEG 6105 Advanced Foundations Engineering (3). Computer applications involving the numerical analysis and design of complex soil-structure interactions: highway and airfield pavements, deep foundation groups and NATM tunnelling techniques. Prerequisite: CEG 4012.

CES 5106 Advanced Structural Analysis (3). Extension of the fundamental topics of structural analysis with emphasis on energy methods and methods best suited for nonprismatic members. Prerequisite: CES 3100.

CES 5325 Design of Highway Bridges (3). Structural analysis and design for highway bridge systems which includes design criteria, standards of practice and AASHTO specifications for designing super-structures and substructure elements of various types of bridges. Prerequisites: CES 4605, CES 5715, and CEG 4011.

CES 5565 Computer Applications in Structures (3). Discussion and application of available computer programs, techniques and equipment for the analysis, design and drafting of structures. Graduate students have to do a project. Prerequisites: CES 4605 and CES 4702.

CES 5587 Topics in Wind Engineering (3). The course will cover the nature of wind related to wind-structure interaction and design loads for extreme winds, tornadoes and hurricanes. Prerequisites: CES 3100 Structural Analysis and CWR 3201.

CES 5606 Advanced Structural Steel Design (3). Extension of the analysis and design of structural elements and connections for buildings, bridges, and specialized structures utilizing structural steel. Prerequisite: CES 4605.

CES 5715 Prestressed Concrete Design (3). The behavior of steel and concrete under sustained load. Analysis and design of pre-tensioned and post-tensioned reinforced concrete members, and designing these members into the integral structure. Prerequisite: CES 4702.

CES 5751 Precast Concrete Design (3). Structural analysis and design for precast buildings and bridges which includes design criteria, standards of practice, and ACI 318 and AASHTO specifications for designing components and connections. Prerequisites: CES 4702 or permission from the instructor.

CES 5800 Timber Design (3). The analysis and design of modern wood structures. Effect of plant origin and physical structure of wood on its mechanical strength; fasteners and their significance in design. Prerequisite: CES 3100.

CES 6209 Advanced Structural Dynamics in Civil Engineering (3). Response of structures subjected to arbitrary forms of deterministic dynamic loading; formulation of methods to evaluate stresses and deflections due to vibrations. Prerequisite: EGM 5421.

CES 6706 Advanced Reinforced Concrete Design (3). The analysis and design of reinforced concrete and masonry structural systems to formalize the student's knowledge of the behavior of structural components into a final integrated structure. Prerequisite: CES 4702.

CES 6707 Reinforced Concrete Mechanics (3). Limit analysis of reinforced concrete. Concrete plasticity. Use and advantages of methods derived from basic mechanics. How reinforced concrete members respond to overload and fail. Prerequisite: CES 6706.

CGN 5315 Civil Engineering Systems (3). Application of systems analysis techniques to large scale civil engineering problems. Prerequisites: ESI 3314 or equivalent.

CGN 5320 GIS Applications in Civil and Environmental Engineering (3). Introduction to the basics of geographic information systems, their software and hardware, and their applications in Civil and Environmental Engineering, landscape architecture, and other related fields. Corequisites: TTE 4201 or CWR 3540 or ENV 3001.

CGN 5407 Advanced Numerical Methods for Nonlinear and Large Deformation Problems in Civil Engineering (3). The course will discuss a suite of advanced numerical methods for computational solutions to effectively tackle the nonlinear and large deformation problems in civil engineering. Prerequisites: CGN 4011, EGM 5351

CGN 5411 Applications of Probability and Statistics to the Analysis of Wind Engineering Experimental Data (3). The course covers elements of probability and statistics as applied to wind engineering problems, major techniques used in the wind tunnel testing of structures, and modern data analysis tools. Prerequisite: Permission from the instructor

CGN 5870 Corrosion Control in Civil Engineering (3). The course provides understanding of principles of corrosion phenomena with emphasis on its application to materials in civil engineering including testing methods, corrosion control, and durability. Prerequisite: Permission of the instructor.

CGN 5874 Building Diagnostics (3). This course will give an introduction into building diagnostics with a focus on non-destructive testing (NDT) techniques used to investigate Civil Engineering materials and structures. Prerequisites: Graduate standing, enrolled in engineering curriculum.

CGN 5930 Special Topics in Civil Engineering (1-3). A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Prerequisite: Permission of the instructor.

CGN 5935 Professional Engineering (Civil) Review (4). Prepares qualified candidates to take the P.E. written examination in the field of Civil Engineering. Reviews hydraulics, hydrology, water supply and wastewater, geotechnics, structures, concrete and steel design, etc.

CGN 6030 Research Methods for Civil Engineers (1). Survey and critical analysis of research in the disciplines of civil and environmental engineering. Emphasizes theory and methods of conducting advanced research, including the scientific method. Prerequisites: First-year doctoral or master standing.

CGN 6308 Intelligent Civil Engineering System (3). Application of artificial intelligence and other techniques to build intelligent civil and environmental engineering systems. Develop planning, design, analysis, diagnosis, control, monitoring applications through projects. Prerequisite: Permission of the instructor.

CGN 6325 Advanced GIS for Civil and Environmental Engineering (3). Advanced GIS concepts and techniques for civil and environmental engineering applications including LRS, temporal GIS, 3D modeling, GIS data accuracy and standards, spatial statistical analysis, and others. Prerequisites: CGN 5930 or permission of the instructor.

CGN 6426 Advanced Computing in Civil Engineering (3). Advanced computer modeling and programming techniques for civil and environmental engineering applications including data modeling, engineering database design, object-oriented programming, and user interface design. Prerequisite: Permission of the instructor.

CGN 6905 Directed Independent Study (1-3). Individual conferences, assigned readings, and reports independent investigations selected by the student and professor with approval of advisor.

CGN 6910 Supervised Research (1-12). Graduate level research carried out under the supervision of a faculty member. Maximum 12 credits can be counted for Ph.D. students only. Prerequisite: Permission of the Major Professor.

CGN 6916 Engineering Project (1-3). Independent research work culminating in a professional practice oriented report for the requirements of the non-thesis option of the M.S. degree. Prerequisites: Fifteen graduate credits and approved project plan.

CGN 6930 Advanced Special Topics in Civil Engineering (1-3). A course designed to give groups of students an opportunity to pursue special studies in an advanced topic of Civil Engineering not otherwise offered. Prerequisite: Permission of the instructor.

CGN 6939 Graduate Seminar (0). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings, and active discussions among participants.

CGN 6971 Thesis (1-6). The student following the thesis option of the Master's degree will pursue research through

this course. The research work will culminate with an acceptable thesis. Prerequisite: Permission of the graduate's thesis advisor.

CGN 7980 Ph.D. Dissertation (1-12). Doctoral research leading to Ph.D. civil engineering dissertation. Prerequisites: Permission of the Major Professor and Doctoral Candidacy.

CWR 5140C Ecohydrology (3). Hydrology of ecosystems, interaction between the hydrologic cycle and vegetative processes. Prerequisite: Permission of the instructor.

CWR 5235 Open Channel Hydraulics (3). Theoretical treatment and application of hydraulics. Flow in open channels with special reference to varied flow, critical state hydraulic jump, and wave formation. Prerequisite: CWR 3540.

CWR 5251 Environmental Hydraulics (3). Application of fluid mechanics in the study of physical mixing in surface water bodies, dispersion of materials, and design of hydraulic systems. Prerequisite: Permission of the instructor.

CWR 5305 Surface Hydrology (3). Principles of Hydrology with a particular focus on surficial processes of interest to engineering design. Emphasizes applications to flood prevention and mitigation and stormwater management issues. Prerequisites: CWR 3201, CWR 3540 (or equivalent).

CWR 5535C Advanced Modeling Applications in Water Resources Engineering (3). Complex model applications in hydrology, hydraulics, hydrosystems engineering and environmental interconnections. Prerequisite: Permission of the instructor.

CWR 5571 Urban Hydrology and Green Infrastructure (3). Introduction to low impact development and stormwater green infrastructure for water quantity and quality control. Urban impervious cover characterization. Green infrastructure hydrologic modeling. Prerequisites: CWR 3201 and CWR 3540 (or equivalent).

CWR 5635 Optimization in Water Resources Engineering (3). This course presents the fundamentals of optimization techniques and their applications to various water resources engineering problems such as flood control and design of hydraulic structures. Prerequisite: CWR 3540 or permission of instructor

CWR 6117 Stochastic Hydrology (3). Application of probability and statistics in hydrologic engineering. Frequency analysis of extreme events. Time series analysis and stochastic modeling. Prerequisites: CWR 3201 and CWR 3540.

CWR 5125 Groundwater Hydrology (3). Physical properties, equations of flow/mass transport, saturated/unsaturated zone, wells, pumping tests, quality/contamination control, analytical solutions, introduction to numerical models/computer codes. Prerequisite: Permission of the instructor.

CWR 6126 Advanced Groundwater Hydrology (3). Finite difference/finite element/boundary integral methods, transport and fate of chemically and biologically reacting solutes, tracer tests, hydrological approaches to remedial action and monitoring. Prerequisites: CWR 5125 or permission of the instructor.

CWR 6236 Engineering Sediment Transport (3). Physical processes of sediment transport and deposition, land erosion, river morphology applied to engineering design, design of stable channels, scour, transport of sediment-attached pollutants.

CWR 6625C Ecological Engineering (3). Introduction and incorporation of the important concepts and theories of ecology into water resources engineering principles and designs. Prerequisite: Permission of the instructor.

EES 5135 Water Quality Indicators (3). Ecological studies of micro and macro organisms which are indicators of water quality. Emphasis of bioassays and early warning systems. Prerequisite: Permission of the instructor.

EES 5137 Biological Monitoring of Freshwater Ecosystems (3). The use of aquatic insects and other invertebrates to monitor changes in the aquatic environment. The ecological aspects of aquatic insects in relation to pollution stress are assessed. Prerequisites: EES 5135 or permission of the instructor.

EES 5506 Occupational Health (3). Effects, assessments, and control of physical and chemical factors in man's environment, including chemical agents, electromagnetic radiation, temperature, humidity, pressures, illumination, noise, and vibration. Prerequisite: Admission to graduate program.

EES 5605 Noise Control Engineering (3). Fundamentals of sound and noise. Health hazards and other effects. Measurement and noise control in transportation, construction, and other environments. Prerequisite: Admission to graduate program.

EES 6506 Environmental and Human Factors (3). Effects, assessment and control of physical and chemical factors in the natural and man-made environments, including noise, electro-magnetic radiation, air and water pollution, public and occupational health, vector control, communicable diseases. Prerequisite: Admission to graduate program.

EES 6508 Occupational Health and Toxicology (3). A continuation of EES 6506. Investigation of toxic substances in air, water, and food in the industrial environment. Prerequisite: EES 6506.

EGM 5111 Experimental Stress Analysis (3). Course covers the necessary theory and techniques of experimental stress analysis and the primary methods employed: brittle coating, strain gauges, photo-elasticity and Moire. Prerequisites: EGM 3520, EGM 5653.

EGM 5351 Finite Element Methods in Mechanics (3). Matrix techniques and variational methods in solid mechanics; single element, assemblage and generalized theory; non-linear analysis; applications in structural and soil mechanics, torsion, heat conduction and hydro-elasticity, etc. Prerequisite: CES 5106.

EGM 5421 Structural Dynamics (3). Fundamentals of free, forced, and transient vibration of singles and multidegree of freedom structures, including damping of lumped and distributed parameters systems. Graduate

students have to do a project. Prerequisite: CES 3100 and MAP 2302.

EGM 6425 Structural Reliability (3). Fundamentals of probability theory and stochastic processes; probabilistic modeling of structural loads and material properties; reliability analysis and design of structures; reliability-based design criteria. Prerequisite: STA 3033.

EGM 6533 Advanced Mechanics of Materials (3). Extension of the fundamental principles of engineering mechanics to include curved beams, warping, stability, etc. Prerequisites: CES 5106 and MAP 2302.

EGM 6653 Theory of Elasticity (3). An advanced course covering the concepts of stress and strain tensors, indicia notation, transformation of stresses, compatibility equations, the stress function and the closed form solution of some important continuum mechanics problems. Prerequisites: EGM 3520, MAP 2302.

EGM 6675 Advanced Plasticity (3). Formulation of the plastic stress-strain relationships; Prandtl-Reuss equations; yield criteria; Plane Plastic Flow and the Plane Slip Line Field Theory; limit analysis and basics of creep. Prerequisite: EGM 3520.

EGM 6736 Theory of Elastic Stability (3). Course will cover the beam-column problem; elastic and inelastic buckling of bars and frames; review of experimental work and design formulas; buckling of rings, curved bars and arches; bending and buckling of thin plates and thin shells. Prerequisite: EGM 3520.

EGM 6796 Theory of Plates and Shells (3). A course covering the concepts of thin plates with small deflections; thin plates with large deflections; thick plates; the Membrane Theory of Shells; and the General Theory of Cylindrical Shells. Prerequisite: EGM 3520.

EGN 5439 Design of Tall Buildings (3). The course analyzes different modern high-rise structural systems, and includes the dynamics of wind and earthquakes to efficiently design very tall buildings and their ancillary structures. Prerequisite: Permission of the instructor.

EGN 5455 Numerical Methods in Engineering (3). Study of procedures that permit rapid approximate solutions, within limits of desired accuracy, to complex structural analysis. Graduate students have to do a project. Prerequisite: CES 3100.

EGN 5990 Fundamentals of Engineering (FE) Review (4). Prepares upper level engineering students to take the Fundamentals of Engineering (FE) State Board examinations. Reviews chemistry, computers, statics, dynamics, electrical circuits, fluid mechanics, mechanic of materials, material science and thermodynamics.

ENV 5002C Fundamentals for Environmental Engineers (3). Laws and principles of the physical, chemical and biological phenomena that define and control the fate of chemical species in natural and engineered systems. Prerequisite: Permission of the instructor.

ENV 5007 Environmental Planning (3). Environmental laws and regulations, ecological principles, planning policies and processes, risk assessment, environmental impact due to growth, and environmental indicators.

ENV 5008 Appropriate Technology for Developing Countries (3). Appropriate environmental technologies and associated factors. Topics include water, air, soil and waste management. Low cost and energy alternatives are emphasized. Prerequisite: Permission of the instructor.

ENV 5027 Bioremediation Processes (3). Bio-transformation of subsurface contaminants is gaining recognition as a viable treatment tool. This course provides students with quantitative methods required to design bioremediation systems. Project required. Prerequisite: Permission of the instructor.

ENV 5062 Environmental Health (3). Study of the control and prevention of environmental-related diseases, both communicable and non-communicable, injuries, and other interactions of humans with the environment. Prerequisite: Permission of the instructor.

ENV 5104 Indoor Air Quality (3). Sources and causes of poor indoor air quality (IAQ). Protocols for IAQ investigations; problem evaluation and solution proposals. Approaches to sustainable construction; best IAQ and energy savings.

ENV 5105 Air Quality Management (3). Technical and regulatory aspects of air quality management. Emissions inventories, ambient monitoring, and models used to evaluate the impact of pollutants on local, regional and global air quality.

ENV 5116 Air Sampling Analysis (3). Practical laboratory work and theoretical aspects involved in a wide range of air sampling and analysis systems. Critical comparison and examination of methods and instrumentation. Source testing, instrumental sensitivity, applicability and remote sensing systems. Prerequisites: ENV 5105 or ENV 4101.

ENV 5126 Particulate Air Pollution Control (3). Particulate pollution control devices, principles, design, costs. Cyclones, electrostatic precipitators, filters, bag houses, scrubbers, noval control devices.

ENV 5127 Gaseous Air Pollution Control (3). Gaseous pollution control devices, principles, design, costs. Gaseous pollutants control using adsorption, absorption, incineration, and other novel control systems.

ENV 5334 Spill Response and Hazardous Materials Transport (3). Consequence analysis of accident scenarios covering the release and dispersion of toxic substances during transport into air, soil, or aquifer and fast response to spills and toxics recovery. Prerequisite: Permission of the instructor.

ENV 5335 Advanced Hazardous Waste Treatment Processes (3). Hazardous waste site assessment, remedial investigation, design of site monitoring strategies and remediation plans. Prerequisites: CHM 1045 and CHM 1045L.

ENV 5347 Waste Incineration (3). Domestic and industrial waste incineration and pollutant stream control of aqueous and airborne pollutants. Design of incineration's.

ENV 5356 Solid and Hazardous Waste (3). Generation, transport, treatment and disposal of solid and hazardous wastes; risk assessment and treatment of contaminated media. Prerequisites: CHM 1045 and CHM 1045L.

ENV 5406 Water Treatment Systems and Design (3). Course emphasizes water quality, quantities, treatment and distribution systems particularly as relates to municipal water supply. Requires laboratory project. Prerequisite: Permission of the instructor.

ENV 5512 Water and Wastewater Analysis (3). Relevance of the main quality parameters and their measurements by wet chemistry and analytical equipment. Includes BOD, COD, TOC, CO, TSS, VSS, alkalinity, acidity, pH hardness, ammonia, TKN, NO2, NO3, PO4, etc. Prerequisites: ENV 5666, CHM 1046, and CHM 1046L. Corequisite: ENV 5512L.

ENV 5512L Water and Wastewater Analysis Laboratory (1). Experiments are conducted which measure gross organic pollution indicators, suspended solids, conductivity, alkalinity, acidity, pH, nitrate, nitrite, TKN, ammonia, total phosphates, chlorine residual and chlorine breakpoint. Prerequisites: ENV 5666, CHM 1046, and CHM 1046L. Corequisite: ENV 5512.

ENV 5517 Design of Wastewater Treatment Plants (3). Wastewater collection systems. Integration of unit operations into the planning and design of treatment plants, including sludge handling and disposal. Prerequisite: Permission of the instructor.

ENV 5519 Chemistry for Environmental Engineers (3). Basis for applying microbial and physicochemical principles to understand reactions occurring in natural and engineered systems including water/wastewater treatment processes. Includes laboratory project. Prerequisite: Permission of the instructor.

ENV 5559 Reactor Design (3). A theoretical and practical basis for reaction kinetics to understand multiphase reactions, analysis and design of batch and continuous flow reactors. Projects on analysis of reactor design and operating data.

ENV 5613 Environmental Entrepreneurship (3). Application of environmental engineering concepts in the development of innovative ideas, products or services; interactive experiences with environmental businesses. Prerequisites: ENV 3001 or permission of the instructor.

ENV 5659 Regional Planning Engineering (3). Theories of urban and regional growth; collective utility analysis; input-output models in planning; application of linear programming to regional social accounting; economic base analysis. Prerequisites: Computer Programming or permission of the instructor.

ENV 5666 Water Quality Management (3). Predicting and evaluating the effect of human activities on streams, lakes, estuaries, and ground waters; and the relation of human activities to water quality and protection of water resources. Prerequisite: Permission of the instructor.

ENV 5905 Independent Study (1-3). Individual research studies available to academically qualified students on graduate status.

ENV 5930 Special Topics in Environmental Engineering (1-3). Specific aspects of environmental technology and urban systems not available through formal course study. Open to academically qualified students only.

ENV 6045 Environmental Modeling (3). Evaluation of regional resources, environmental stresses, and considerations in regional systems; systems analysis in environmental management and its relation to decision making; modeling of air and water systems. Prerequisites: Computer programming or permission of the instructor.

ENV 6056 Engineering Assessment of Metal Contaminants & Colloidal Transport (3). Kinetics of metal sorption reactions, colloidal transport, assessment of metal contaminants in soil. Prerequisite: Permission of the instructor.

ENV 6070 Green Engineering (3). Study of green engineering principles and methodologies to enhance environmental performance of societal sectors, including regulatory framework, sustainability, P2, LCA and industrial ecology. Prerequisite: Permission of the instructor.

ENV 6337 Hazardous Waste Site Assessment (3). Phase I and Phase II Investigations, Environmental Testing, Assessment, Monitoring Design. Prerequisites: ENV 5335 or permission of the instructor.

ENV 6510C Advanced Unit Operations I (3). Theory and design of physical and chemical processes for treatment of contaminated media. Application of fluid mechanics, heat and mass transfer to design and operation of physical/chemical systems. Prerequisite: Permission of the instructor.

ENV 6511C Advanced Unit Operations II (3). Theory and design of biological processes for treatment of contaminated media. Application of biochemical reaction kinetics theory to design and operation of biological treatment systems. Prerequisite: Permission of the instructor.

ENV 6511L Advanced Unit Operations II Lab (1). Bench scale experiments for scaling-up and designing the following water and wastewater processes: sedimentation, coagulation, filtration, adsorption, oxidation and gas transfer. Prerequisite: ENV 6510. Corequisite: ENV 6511.

ENV 6516 Advanced Treatment Systems (3). Integration of unit operations into advanced treatment systems for contaminated media. Applications may include either conventional or innovative/emerging technologies. Prerequisite: Permission of the instructor.

ENV 6558 Industrial Wastewater Treatment (3). Characteristics and composition of industrial wastewaters. Sampling techniques and analyses. Water conservation and reuse. Joint industrial-commercial collection and treatment of wastewaters. Prerequisite: ENV 6516.

ENV 6614 Environmental Risk Assessment (3). Characteristics of risk analysis, hazard identification, exposure assessment, consequence analysis, dose-response analysis. Prerequisite: Permission of the instructor.

ENV 6615 Environmental Impact Assessment (3). An examination of alternative techniques useful for analysis and environmental impacts of man's activities. Environmental impact assessment methodologies are emphasized.

ENV 6916 Engineering Project (1-3). Individual work culminating in a professional practice-oriented report

suitable for the requirements of the M.S. degree-project option. Only three credits are applicable towards degree. Prerequisites: Completion of 20 graduate credits and approved proposal.

ENV 6934 Advanced Special Topics in Environmental Engineering (1-3). Specific aspects of Environmental Engineering requiring advanced engineering and research skills. A maximum of three credits are applicable towards degree. Prerequisite: Permission of the instructor.

ENV 6935 Graduate Environmental Seminar (0). The course consists of oral presentations made by students, guests, and faculty members on current topics and research activities in environmental systems.

ENV 6971 Thesis (1-6). Research for Master's thesis.

TTE 5007 Transportation Systems in Developing Nations (3). Transportation systems in the Developing Nations. Role of international organizations, technology transfer/choices, orientation of transport networks, socio-economic and environmental impacts. Prerequisites: Graduate standing or permission of the instructor.

TTE 5015 Applied Statistics in Traffic and Transportation (3). Civil and Environmental Engineering statistics methods as applied to traffic and transportation are covered. Topics include: significance tests, standard distributions, analysis of variance, and regression analysis. Prerequisite: Graduate standing.

TTE 5100 Transportation and Growth Management (3). Theory and principles of transportation and growth management, including the growth phenomena and regional impact planning. Design projects required. Prerequisite: TTE 4201.

TTE 5205 Advanced Highway Capacity Analysis (3). Parameters involved in calculating highway capacity and level of service on different highway and transportation facilities. Computer application will be also discussed. Prerequisite: TTE 4201.

TTE 5215 Fundamentals of Traffic Engineering (3). Speed and volume studies, stream characteristics, traffic flow theory, accident characteristics. Prerequisite: TTE 4201.

TTE 5273 Intelligent Transportation Systems (3). ITS functional areas, planning architecture, standards, and evaluation. Implementation of selected ITS technologies and strategies. Prerequisites: TTE 4201 or equivalent.

TTE 5315 Highway Safety Analysis (3). Influencing factors (roadway characteristics, vehicle characteristics, and human factors), safety data, network screening, identification and diagnosis of safety problems, selection of countermeasures, evaluation studies, accident reconstruction. Prerequisites: STA 3033, TTE 4201.

TTE 5606 Transportation Systems Modeling and Analysis (3). Modeling and analysis techniques in transportation. Linear Programming, queueing theory, decision making techniques. Prerequisite: TTE 4201.

TTE 5607 Transportation Demand Analysis (3). Travel demand analysis and forecasting. Modeling techniques including trip generation and distribution, mode split, and trip assignment. Practical applications. Prerequisite: TTE 4201.

TTE 5805 Advanced Geometric Design of Highways (3). Parameters governing the geometric design of highways; curve super-elevation; widening on highway curves; elements of intersection design; design of interchanges; use of AASHO design guidelines. Design project required. Prerequisites: SUR 3101C and TTE 4201.

TTE 5835 Pavement Design (3). Analysis and design of sub-base, base, and pavement of a roadway. Discussions of flexible pavement and rigid pavement as structural units. Boussinesq's approach. Westergaard's theory. Beams on Elastic Foundations. Prerequisites: CEG 4011 and CES 4702.

TTE 5925 Urban Traffic Workshop (3). Selected laboratory problems related to urban traffic. Prerequisite: TTE 4201.

TTE 5930 Transportation Seminar (1-3). Oral presentations made by students, guests, and faculty members on current topics and research activities in traffic and transportation engineering. Prerequisite: TTE 4201.

TTE 6257 Traffic Control Systems Design (3). Theory and principles of traffic control systems design, including both freeway and urban streets. Design projects required. Prerequisite: TTE 4201.

TTE 6267 Traffic Simulation Models (3). Traffic simulation modeling and analysis. Application of microscopic and macroscopic traffic simulation models to evaluate and optimize traffic control systems. Prerequisites: TTE 6257 or equivalent.

TTE 6506 Mass Transit Planning (3). Theories and principles of mass transit planning, include highway transit, rail transit and new transit modes. Design projects required. Prerequisite: TTE 5930.

TTE 6525 Bearing Capacity of Roads and Airfields (3). Advanced study of bearing capacity principles and theory; stress-strain behavior of pavements; constitutive modeling; and failure histories of pavement. Prerequisite: Permission of the instructor.

TTE 6526 Airport Planning and Design (3). Theory and principles of airport planning and design, include both general aviation and major commercial airports. Design projects required. Prerequisite: Permission of the instructor.

TTE 6528 Airport Terminal Design and Operations (3). Theory and practice of airport terminal design and operations, including passenger terminal complex, cargo terminal complex, and ground transportation. Design projects required. Prerequisite: Permission of the instructor.

TTE 6605 Planning and Design of Intermodal Facilities (3). Theory and practice of intermodal facility planning and design, including facility location, site design and access, and intermodal considerations. Design projects required. Prerequisites: TTE 5930 or permission of the instructor.

TTE 6650 Transportation and Land Development (3). Theory and principles of transportation and land development, including site planning, traffic analysis, and access and site circulation. Design projects required. Prerequisite: TTE 4201.

TTE 6701 Light Rail Planning and Design (3). Theory and practices of light rail transit planning and design, including demand analysis, capacity evaluation, geometric design, and track design. Design projects required. Prerequisite: TTE 4201.

TTE 6755 Port Planning and Development (3). Theory and practice of port planning and development, including demand analysis, capacity evaluation, ground access, and port development strategy. Design projects required. Prerequisites: TTE 5930 or permission of the instructor.

TTE 6833 Superpave Asphalt Mixture Design and Analysis (3). Materials characterization and testing; elastic, visco-elastic and plastic behavior; fracture and fatigue, rutting and design of bituminous mixtures. Prerequisite: Permission of the instructor.

TTE 6834 Pavement Maintenance and Rehabilitation (3). Pavement performance assessment; criteria for pavement evaluation, measurement of pavement distress. Analysis and interpretation of pavement condition data. Formulation and evaluation of maintenance and rehabilitation alternative. Prerequisite: Permission of the instructor.

TTE 6837 Pavement Management Systems (3). Theory and principles of pavement management systems (PMS), including PMS at network and project level, PMS strategies, and PMS software packages used for decision making process. Prerequisites: TTE 5835 or permission of the instructor.

URP 5312 Urban Land Use Planning (3). Elements of the general land use plan, location and space requirements; the use of models in planning; development of the land use plan; policy plan, implementation. Prerequisite: Permission of the instructor.

URP 5316 Environmental and Urban Systems (3). Overview of basic issues and principles of environmental and urban planning/design systems. Emphasis will be placed on multidisciplinary linkages.

URP 5912 Research Methods (3). Methods of information search, data interpretation, and hypotheses formulation used in the field.

URP 6222 Urban Regional Analysis (3). The urban areas as a complex system; modeling the urban growth processes; statistical decision making games; modeling and simulation; cost effectiveness; application of the theory; a system-wide view of the Miami area. Prerequisite: Permission of the instructor.

URP 6317 Advanced Environmental and Urban Systems (3). To study the application of physical planning and design concepts and their environmental, infrastructural and social impacts.

URP 6906 Independent Study (1-3). Specialized individual studies in Environmental and Urban Systems. Prerequisite: Permission of the instructor.

URP 6935 Special Topics (3). Intensive treatment of specific subjects in the field of environmental and urban systems. Topics will vary depending upon the interest of students and faculty.

URP 6937 Final Project (1-3). Individual work culminating towards professional practice that also meets a degree requirement of the Master of Environmental and Urban Systems program. Prerequisite: Permission of the instructor.

Electrical and Computer Engineering

Deidra Hodges *Associate Professor, and Chair*
Malek Adjouadi, *Ware Professor*
Kemal Akkaya, *Professor*
Mohammad Shah Alam, *Assistant Teaching Professor*
Elias Alwan, *Assistant Professor*
Jean Andrian, *Associate Professor*
Wilmer Arellano, *Associate Teaching Professor*
Ou Bai, *Associate Professor*
Armando Barreto, *Professor*
Shekhar Bhansali,
Distinguished University Professor
Shubhendu Bhardwaj, *Assistant Professor*
Amaury Caballero, *Teaching Professor*
Mercedes Cabrerizo, *Associate Professor*
Gustavo Chaparro-Baquero, *Assistant Teaching Professor*
Hai Deng, *Associate Professor and Graduate Program Director of the Master's Programs*
Yu Du*, Assistant Teaching Professor*
Luis Galarza, *Assistant Teaching Professor*
Stavros Georgakopoulos, *Professor*
Mehdi Hatamian, *Distinguished University Professor*
Ahmed S. Ibrahim, *Assistant Professor*
Shafiul Islam*, Assistant Teaching Professor*
Aleksandr Krasnok, *Assistant Professor*
Grover Larkins, *Professor*
Arjuna Madanayake, *Associate Professor, and Graduate Program Director of the Ph.D. Program*
Osama Mohammed, *Distinguished University Professor, Associate Dean of Research, and Interim School Director*
Nonnarit O-Larnnithipong, *Assistant Teaching Professor*
Nezih Pala, *Associate Professor*
Sumit Paudyal, *Associate Professor*
Alexander Perez-Pons, *Associate Professor*
Vladimir Pozdin*, Assistant Professor*
Gang Quan, *Professor*
Mohammad Ashiqur Rahman, *Assistant Professor*
Md Tauhidur Rahman*, Assistant Professor*
Pulugurtha Markondeya Raj*, Associate Professor*
Gustavo Roig, *Professor*
Aboubakr Salem, *Assistant Teaching Professor*
Mario Sanchez, *Associate Director for Undergraduate Advising*
Arif Sarwat, *Professor*
Mst Shamim Ara Shawkat*, Assistant Professor*
Atoussa Tehrani, *Associate Teaching Professor*
Selcuk Uluagac, *Associate Professor*
Himanshu Upadhyay, *Associate Professor*
Frank Urban, *Associate Professor*
Rafael Soltero Venegas, *Associate Teaching Professor*
Yuri Vlasov, *Associate Teaching Professor*
John Volakis, *Dean, College of Engineering and Computing & Professor*
Herman Watson, *Assistant Teaching Professor, and Undergraduate Program Director*
Subbarao Wunnava, *Professor Emeritus Distinguished*
Kang Yen, *Professor, Assistant Provost, and Graduate Program Director of the China Program*
Konstantinos Zekios, *Assistant Professor*

Master of Science in Electrical Engineering

The Department of Electrical and Computer Engineering offers both thesis and non-thesis options for the Master's Degree. The program provides a broad and multidisciplinary education, followed by in-depth studies of areas of interest.

All work counted for the Master's degree must be completed during the 5 years immediately following the date of admission.

Admission Requirements

The following are in addition to the University's graduate admission requirements:

1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science or mathematics from an accredited institution, or, in the case of foreign students, from an institution comparable or equivalent to US degree for further study at the graduate-level, or, a bachelor's degree in a related and a minimum of one year of work experience in the broad areas of electrical engineering and/or technology.
2. An applicant must have a GPA score of 3.0 or higher in upper-level undergraduate work.
3. Applicants who have not satisfied the above score may be evaluated for conditional admission.
4. International applicants whose native language is not English are required to demonstrate English language proficiency through one of the following:
    - 80 on the iBT TOEFL (equivalent to 550 on the paper-based version of the Test of English as a Foreign Language);
    - 6.5 overall on the International English Language Testing System (IELTS);
    - 53 Pearson Test of English - Academic;
    - Cambridge English – Advanced;
    - An undergraduate or graduate degree from an accredited institution where the language of instruction is English.

In lieu of the above requirement a student may opt for (a) or (b) below along with an additional method of direct assessment of English language acquisition of an interview or proctored video-taped session

a) Successful completion of University level English courses from an accredited institution (e.g. ENC 1101, ENC 1102 or other equivalent courses with a letter grade of "B" or higher) that prepare applicants to be proficient in English.

OR

b) English Language Institute Level Six: successful completion with passing grades for all content areas;

Plus, one of the following additional methods of assessment:

i) Interview (in person when possible or via videoconference) with admissions committee.

ii) Proctored video-taped responses to questions from the admissions committee.

5. Applicants from science areas other than electrical or computer engineering will be expected to complete sufficient background material at the undergraduate level prior to unconditional acceptance into the graduate program.

6. Applicants from science areas other than electrical or computer engineering will be expected to complete sufficient background material at the undergraduate level prior to unconditional acceptance into the graduate program.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

1. Recommendation of the advisor and faculty of the Department.
2. Certification by the Dean of the College that all requirements of the degree being sought have been completed.
3. A GPA of at least 3.0 has been earned for certain courses required by the program.
4. Met the undergraduate deficiencies, if any existed in the student's graduate program, as additional courses toward the degree.
5. Completed the required semester hours of graduate-level credit (not more than 6 graduate semester hours with a grade of "B" or higher can be transferred from other accredited institutions).
6. Students must maintain an overall GPA of 3.0. No grade below "C" will be accepted in a graduate program. In the event that a student is placed on probationary status, he or she must obtain a directed program from his or her advisor and approved by the Dean prior to continuing further course work toward the degree. The student must satisfy the directed course of action within the prescribed time limit; otherwise he or she will be academically dismissed.
7. Complied with all University policies and regulations.

Thesis Option

A student must complete 24 semester credit hours of technical course work plus 6 semester credit hours of EEL 6971 - Master's Thesis. The candidate's Thesis committee shall approve an appropriate thesis topic.

The course requirements include a minimum of 12 hours of 6000 level course credit and a minimum of 9 hours at the 5000-6000 level in Electrical Engineering.

Upon the successful completion of all course work, including thesis work, and after the determination by the student's advisor that he or she has completed the objectives of the thesis research, the student must pass a final oral examination which is primarily a defense of the thesis research.

The courses are chosen by mutual agreement between the student and the thesis advisor.

Non-Thesis Option

Students may choose the non-thesis option for their master's degree. The degree requirements differ from the thesis option in one aspect. The student must either:

1. Complete 27 credits of coursework approved by his advisor and successfully finish EEL 6916 Graduate Project with at least a 'B'.

OR

2. Complete 30 credits of coursework approved by the Graduate Program Director.

Students choosing the non-thesis option must take:

1. Two sets of graduate-level Electrical Engineering approved sequence courses from the catalog. Each set includes a minimum of 6 semester credit hours.
2. Six semester credit hours at the 5000-6000 level in mathematics.

Math Electives in ECE

EEL 5171	Advanced System Theory	3
EEE 5543	Random Signal Principles	3
EEL 6020	Numerical Analysis of Electrical Devices	3

The above list may be changed or expanded by the Graduate Advisory Committee.

The remaining elective courses can be chosen from Science, Technology Engineering, and Mathematics (STEM) disciplines based upon student approved plan of study and will be selected by the student and his or her advisor based on the student's career objectives.

Any course taken without the proper prerequisites and corequisites will be dropped automatically before the end of the term, resulting in a grade of "DR" or "DF".

Students, who are dismissed from the University due to low grades, may appeal to the Dean for reinstatement. A second dismissal results in no possibility of reinstatement. Any exception to the program requires the department's approval.

Master of Science in Electrical Engineering- Energy Cybersecurity

Common Core (6 credits)

EEL 5171	Advanced Systems Theory	3
EEL 5543	Random Signal Principles	3

Track Specific (24 credits)

EEL 6805	Advanced Malware Reverse Engineering	3
EEL 5718	Computer Communication Network	3
EEL 6803	Advanced Digital Forensics	3
EEL 6787	Network Security	3
EEL 5285	Sustainable and Renewable Energy Sources and their Utilization	3
EEL 6267	Application of Intelligent Systems to Power System Operations	3
EEL 5717	Advanced Security of Internet of Things and Cyber-Physical Systems	3
EEL 5278	Smart Grid Cyber Security and Intelligent Electronic Devices	3

Master of Science in Electrical Engineering- RF and Microwave

Common Core (6 credits)

EEL 5171	Advanced Systems Theory	3
EEL 5543	Random Signal Principles	3

Track Specific (24 credits)

EEL 5426	RF Circuit Design	3
EEL 5437	Microwave Engineering	3
EEL 5467	Antennas for Wireless Communication	3
EEL 5482	Fields and Waves Engineering	3
EEL 5500	Digital Communication System I	3
EEL 5501	Digital Communication System II	3
EEL 5563	Introduction to Optical Fibers	3
EEL 6463	Antenna Theory and Design	3

Combined BS/MS in Electrical Engineering Degree Pathway

This five-year pathway seamlessly combines a baccalaureate degree in Electrical Engineering with the Master's in Electrical Engineering. To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits required for the bachelor's degree program at FIU, have earned at least a 3.2 GPA on both overall and upper-division courses, and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Students enrolled in the pathway may count up to 9 hours of graduate-level courses (i.e., 5000 level or higher) as credits for both the undergraduate and graduate degree programs. Only graduate courses with formal lectures can be counted for both degrees. For each of the courses counted as credits for both BS and MS degree, a minimum grade of 'B' is required. Upon completion of the combined BS/MS pathway, students must have accumulated a minimum of 24 hours of credits at the graduate (5000+) level. Students enrolled in the pathway are encouraged to seek employment with a department faculty member to work as a student assistant on a sponsored research project.

Master of Science in Computer Engineering

The Department of Electrical and Computer Engineering offers both thesis and non-thesis options for the Master's Degree.

All work counted for the Master's degree must be completed during the 5 years immediately following the date of admission.

The program provides a broad and multidisciplinary education, followed by in-depth studies of areas of interest.

Admission Requirements

The following is in addition to the University Graduate School admission requirements:

1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science or mathematics from an accredited institution, or, in the case of foreign students, from an institution comparable or equivalent to US degree for further study at the graduate-level, or, a bachelor's degree in a related and a minimum of one year of work experience in the broad areas of computer engineering and/or technology.
2. An applicant must have a GPA score of 3.0 or higher in upper-level undergraduate work.
3. Applicants who have not satisfied the above score may be evaluated for conditional admission.
4. International applicants whose native language is not English are required to demonstrate English language proficiency through one of the following:
   • 80 on the iBT TOEFL (equivalent to 550 on the paper-based version of the Test of English as a Foreign Language);'
   • 6.5 overall on the International English Language Testing System (IELTS);
   • 53 Pearson Test of English - Academic;
   • Cambridge English – Advanced;
   • An undergraduate or graduate degree from an accredited institution where the language of instruction is English.
   In lieu of the above requirement a student may opt for (a) or (b) below along with an additional method of direct assessment of English language acquisition of an interview or proctored video-taped session
   a) Successful completion of University level English courses from an accredited institution (e.g. ENC 1101, ENC 1102 or other equivalent courses with a letter grade of "B" or higher) that prepare applicants to be proficient in English.
   OR
   b) English Language Institute Level Six:
   successful completion with passing grades for all content areas;

Plus, one of the following additional methods of assessment:

   i) Interview (in person when possible or via videoconference) with admissions committee.
   ii) Proctored video-taped responses to questions from the admissions committee.

5. Applicants from science areas other than electrical or computer engineering will be expected to complete sufficient background material at the undergraduate level prior to unconditional acceptance into the graduate program.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

1. Recommendation of the advisor and faculty of the Department.
2. Certification by the Dean of the College that all requirements of the degree being sought have been completed.
3. A GPA of at least 3.0 has been earned for certain courses required by the program.
4. Met the undergraduate deficiencies, if any existed in the student's graduate program, as additional courses toward the degree.
5. Completed the required semester hours of graduate-level credit (not more than 6 graduate semester hours with a grade of "B" or higher can be transferred from other accredited institutions).
6. Students must maintain an overall GPA of 3.0. No grade below "C" will be accepted in a graduate program. In the event that a student is placed on a probationary status, he or she must obtain a directed program from his or her advisor and approved by the Dean prior to continuing further course work toward the degree. The student must satisfy the directed course of action within the prescribed time limit, otherwise he or she will be academically dismissed.
7. Complied with all University policies and regulations.

Thesis Option

A student must complete 24 semester credit hours of technical course work plus 6 semester credit hours of EEL 6971 - Master's Thesis. The candidate's Thesis committee shall approve an appropriate thesis topic.

The course requirements include a minimum of 12 hours of 6000 level course credit and a minimum of 9 hours at the 5000-6000 level in Computer Engineering.

Upon the successful completion of all course work, including thesis work, and after the determination by the student's advisor that he or she has completed the objectives of the thesis research, the student must pass a final oral examination which is primarily a defense of the thesis research.

The courses are chosen by mutual agreement between the student and the thesis advisor.

Non-Thesis Option

Students may choose the non-thesis option for their master's degree. The degree requirements differ from the thesis option in one aspect. The student must either:

3. Complete 27 credits of coursework approved by his advisor and successfully finish EEL 6916 Graduate Project with at least a 'B'.

OR

4. Complete 30 credits of coursework approved by the Graduate Program Director.

Students choosing the non-thesis option must take:

1. Two sets of graduate-level Computer Engineering approved sequence courses from the catalog. Each set includes a minimum of 6 semester credit hours.
2. Six semester credit hours at the 5000-6000 level in mathematics.

Math Electives in ECE

EEL 5171	Advanced Systems Theory	3
EEE 5543	Random Signal Principles	3
EEL 6020	Numerical Analysis of Electrical Devices	3

The above lists may be changed or expanded by the Graduate Advisory Committee.

The remaining elective courses can be chosen from Science, Technology Engineering, and Mathematics (STEM) disciplines based upon student approved plan of study.

Any exception to the program requires the department's approval.

Master of Science in Computer Engineering- Machine Learning

Common Core (6 credits)

EEL 5171	Advanced Systems Theory	3
EEL 5543	Random Signal Principles	3

Track- Specific Courses

EEL 6825	Pattern Recognition	3
EEL 5813	Neural Networks-Algorithms and Applications	3
EEL 6812	Advanced in Neural Networks	3
EEL 6681	Fuzzy Systems Design	3

The Machine Learning track will require 6 credits as common core, 12 credits of track-specific core courses and 12 credits of elective 5000- or 6000- level graduate courses from the ECE department, for a total of 30 credits.

Combined BS/MS in Computer Engineering Degree Pathway

This five-year pathway seamlessly combines a baccalaureate degree in Computer Engineering with the Master's in Computer Engineering. To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits required for the bachelor's degree program at FIU, have earned at least a 3.2 GPA on both overall and upper-division courses, and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Students enrolled in the pathway may count up to 9 hours of graduate-level courses (i.e., 5000 level or higher) as credits for both the undergraduate and graduate degree programs. Only graduate courses with formal lectures can be counted for both degrees. For each of the courses counted as credits for both BS and MS degree, a minimum grade of 'B' is required. Upon completion of the combined BS/MS pathway, students must have accumulated a minimum of 24 hours of credits at the graduate (5000+) level. Students enrolled in the pathway are encouraged to seek employment with a department faculty member to work as a student assistant on a sponsored research project.

Master of Science in Computer Engineering – Network and Security Online

The Master of Science in Computer Engineering – Network Security Online program is similar to the existing/approved face-to-face program in terms of curriculum and admissions requirements.

Admission Requirements

The following is in addition to the University Graduate School admission requirements:

1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science or mathematics from an accredited institution, or, in the case of foreign students, from an institution comparable or equivalent to US degree for further study at the graduate-level, or, a bachelor's degree in a related and a minimum of one year of work experience in the broad areas of computer engineering and/or technology, or a bachelor's degree in any field plus 3 years of relevant work experience will be considered. The student must take and pass two deficient courses required by the program.
2. An applicant must have a GPA score of 3.0 or higher in upper-level undergraduate work.
3. Applicants who have not satisfied the above score may be evaluated for conditional admission.

4. International students whose native language is not English, must take the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System Test (IELTS). Minimum required score is: 550 on the paper-based test (PBT TOEFL), or 80 on the iBT TOEFL, or 6.5 overall on the IELTS test.
5. Applicants from science areas other than electrical or computer engineering will be expected to complete sufficient background material at the undergraduate level prior to unconditional acceptance into the graduate program.

The Master of Science in Computer Engineering – Network Security Online program requires 30 semester hours beyond the bachelor's degree. This is a lock-step program that consists of a specific sequence of courses. The Master of Science in Computer Engineering – Network Security Online program includes two required components:

Computer Engineering Courses (24 credits)

CIS 5208	Social, Economic and Policy Aspects of Cybersecurity	3
CNT 5415	Practical Applied Security	3
EEL 6803	Advanced Digital Forensics	3
EEL 6805	Advanced Malware Reverse Engineering	3
EEL 5718	Computer-Communication Network Engineering	3
EEL 5807	Advanced Ethical Hacking	3
EEL 6787	Network Security	3
TCN 5271	Advanced IoT Communications and Networking	3

Math Electives (6 credits)

EEL 5171	Advanced Systems Theory	3
EEE 5543	Random Signal Principles	3
EEL 6020	Numerical Analysis of Electrical Devices	3

The Math Electives may be changed or expanded by the Graduate Advisory Committee.
Any exception to the program requires the department's approval.

Master of Science in Computer Engineering – Robotics for Computer Engineer Track

Common Core (6 credits)

EEL 5171	Advanced Systems Theory	3
EEL 5543	Random Signal Principles	3

Track-Specific Courses (12 Credits)

EEL 5669	Autonomous Systems and Controls	3
EEE 6767	Advanced Embedded Programming for IoT Sensing, Network, Control and Applications	3
EML 5808	Control Technology for Robotic Systems	3
EML 6805	Advanced Design of Robots	3

Track-Elective Courses (12 credits)

EEE 6765	Advanced Embedded Systems Design and Implementation for IoT Applications	3
EEL 6821	Computer Vision	3
EEL 6825	Pattern Recognition	3
EEL 5813	Neural Networks-Algorithms and Applications	3
EEL 6812	Advanced in Neural Networks	3
EEL 6681	Fuzzy Systems Design	3
EML 5505	Smart Machine Design and Development	3
EMC 5415	Digital Control of Mechanical Systems	3
EML 5825	Sensors and Applied Machine Intelligence	3
EML 5125	Classical Dynamics	

The Robotics track will require 6 credits as common core, 12 credits of track-specific core courses, and 12 credits of track-elective courses from the ECE and MME Departments, for a total of 30 credits. Approval by GPD is required to determine relevant courses.

Master of Science in Internet of Things

Core Courses 21 credits:

TCN 5271	Ubiquitous and Embedded Sensor Network Centric Telecommunications	3
EEE 5718	IoT Security and Privacy	3
EEE 6525	Advanced Sensor Signal Processing	3
TCN 6276	Antennas for Wireless and Body-Centric Communications	3
EEL 6795	Power Aware Computing	3
EEL 6787	Network Security	3
CNT 6148	Advanced IoT and Sensor Big Data Analytics	3

Elective Courses 9 credits:

EEL 6463	Antenna Theory and Design	3
EEL 6894	Real-Time Computing and Applications	3
EEL 5757	Real-Time Digital Signal Processing Implementations	3
EEL 5741	Advanced Microprocessor Systems	3
EEL 6020	Numerical Analysis of Electrical Devices	3
EEL 5718	Computer-Communication Network Engineering	3
EEL 5591C	Wireless Digital Communications with USRP Applications	3
EEL 5467	Antennas for Wireless Communication Systems	3
EEL 5437	Microwave Engineering	3
EEL 5145	Advanced Filter Design	3
EEE 6311	Advanced Electronic Systems I	3
CNT 6311	Advanced IoT and Sensor Data Visualization	3
CNT 6156	Advanced IoT and Sensor Programming with Python	3
CNT 6144	Advanced IoT Analytics with Cloud Services	3
CNT 6154	Advanced IoT Applied Machine Learning	3
CNT 6150	Sensor and IoT Data Analytics with Deep Learning	3

Doctor of Philosophy in Electrical and Computer Engineering

Admission Requirements

The requirements for admission to the doctoral program in Electrical and Computer Engineering are:

1. Applicants having a bachelor's degree in engineering, physical sciences, computer science

or mathematics from an accredited institution must provide the followings for admission to the doctoral program:
   - An applicant must have a GPA score of 3.0 or higher.
   - Applicants who have not satisfied the above score may be evaluated for conditional admission.
   - Applicants must submit GRE scores although no minimum scores are required to be considered for admission.
   - Three letters of recommendation in the forms provided by the department
   - International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
2. Applicants having a Master's degree in Electrical or Computer Engineering from an accredited institution must provide the followings for admission to the doctoral program:
   - GPA of at least 3.3/4.0 in the master's program
   - Applicants must submit GRE scores although no minimum scores are required to be considered for admission.
   - Three letters of recommendation in the forms provided by the department
   - International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
3. Credentials of all other applicants will be examined by the Graduate Admission Committee on a case by case basis. In addition to the departmental requirements, all students must satisfy the University's Graduate Policies and Procedures.

Identification of Research Area

Within 12 months upon acceptance into the Ph.D. program, the student has to identify an area of research of his or her interest by contacting and being accepted by a professor willing to guide the dissertation research. If no such professor can be found, the student will be dismissed from the Ph.D. program. Contact the Department for a list of the faculty members with Dissertation Advisor status and their research interests.

Course Requirements

The Ph.D. in Electrical and Computer Engineering requires at least 75 credit hours beyond the bachelor's degree. A maximum of 30 credit hours of course work earned in a Master's degree in Electrical or Computer Engineering, from FIU or another accredited institution, may be counted toward the Ph.D. provided that a minimum grade of "B" is earned in each course.

Degree Requirements

1. Students must complete at least 9 credits of coursework in their major area (EEL 6905, 6916, 6932 and 6971 will not be counted as coursework) and at least 6 credits in two different breadth areas (a grade of "B" or better in each course). The appropriate areas of study and specific courses are determined by the dissertation advisor. Students majoring in Electrical Engineering should have one minor in computer engineering, and those majoring in Computer Engineering should have one minor in Electrical Engineering.
2. The student must have completed a minimum of 45 credits of graduate course work toward the Ph.D. before the student is eligible for the candidacy. This includes up to 30 transfer credits.
3. At least 15 credits of EEL 7980 are required. Registration for EEL 7980 Ph.D. Dissertation is allowed only after passing the qualifying examination.
4. Fifty percent of the total hours counted toward the doctoral degree have to be at the 6000 and 7000 level (including EEL 7980).

Residency Requirements

The Ph.D. student must spend at least one academic year in full-time residency. Usually, this will be after being admitted to candidacy. To satisfy the residency requirement for a Ph.D. degree in Electrical and Computer Engineering, the candidate must complete a minimum of 18 credit hours within a period of 12 months in residency at the University.

Graduate Supervisory and Research Committee

The student's Ph.D. Graduate Supervisory and Research Committee should be appointed as soon as possible and not later than 15 months after being admitted to the Ph.D. program. Consult the Graduate Handbook in the Department for more details on how to select the committee members.

Ph.D. Course Breadth Requirements

The student must submit information about how the breadth requirement has been satisfied to the Graduate Program Director at the time he/she signs up for the Ph.D. Qualifying Examination.

Qualifying Examination

To be eligible for the written qualifying examination, the student must have satisfied the Ph.D. course breadth requirements in his or her area of specialization and in two other areas. The students can take the qualifying examination no later than the semester in which all the required coursework for the degree is completed. Failure to do this is causation for dismissal from the Ph.D. program.

One of the following two options will be selected by the student's major advisor for the qualifying exam: (1) Written exam and (2) Research paper preparation and presentation. Failing any part of the exam implies the failure of the entire examination. The exam must be retaken the next time it is offered. Failing a second time is cause for dismissal from the Ph.D. program.

Consult the Graduate Handbook available in the Department for details on examination procedures, dates, duration, application and grading criteria.

Proposal Defense

Proposal defense must be taken within one semester after the satisfactory completion of the qualifying examination.

Admission to Candidacy

Candidacy status indicates that a doctoral student is ready for the completion of the dissertation. A student is admitted to candidacy upon successfully completing all required course work and passing the qualifying examination.

Oral Defense and Submission of Doctoral Dissertation

A dissertation is required of all candidates for the doctoral degree. A proposal must be submitted to the student's Dissertation Committee for approval, following the general guidelines in the "Regulations for Thesis and Dissertation Preparation". A student must enroll for dissertation credits in the semester in which he or she expects to be admitted to candidacy, and must maintain continuous enrollment for not less than 3 credits of EEL 7980 every semester, including Summers, until the semester in which the doctoral degree is awarded. Upon completion of the dissertation, the degree candidate will submit to the Dean of the Graduate School an application for dissertation defense signed by the student's Dissertation Committee with sufficient time to allow for publishing a notice in the monthly calendar of dissertation and theses defenses to invite members of the university community to observe the defense.

Following the successful defense of the dissertation, as determined by a majority vote of the student's research committee, the dissertation must be forwarded to the Dean of the College of Engineering and Computing and the Dean of the Graduate School for their approval.

All dissertations submitted in fulfillment of requirements for graduate degrees must conform to University guidelines (see "Regulations for Thesis and Dissertation Preparation"). One final, approved copy of the dissertation must be delivered to the Chairperson of the Department of Electrical and Computer Engineering. Library copies must conform to University guidelines, also published in "Regulations for Thesis and Dissertation Preparation".
Any exception to the program requires the department's approval.

Financial Aid

Consult the Department for information on research and teaching assistantships available for doctoral students.

MS en-route to PhD

Students in the ECE PhD program may obtain an MS degree in Electrical Engineering or Computer Engineering provided that the following conditions are satisfied.

- Completed 30 credits of graduate course work at FIU. Only the letter-graded (i.e. not P/F) courses are counted towards this requirement.
- The courses have not been used for a previously earned master's degree.
- In good academic standing and all courses are within the time limits to degree completion.
- All courses are B or better.
- No pending Incomplete grades.
- Have approved D1, D2 and D3 on file with UGS.

This is subject to approval by the GPD and UGS.

Course Descriptions

Definition of Prefixes

CNT-Computer Networks; EEE-Engineering: Electrical and Electronic; EEL-Engineering: Electrical; OSE-Optical Science and Engineering; TCN-Telecommunications/ Networking

CNT 5415 Practical Applied Security (3). Secure design and management of network systems with hands-on training. Topics include threats and vulnerabilities TCP/IP networks; secure network protocols and standards such as TLS, HTTPS and IPSec, network defense through firewalls, VPNs and DMZs. Prerequisite: Graduate standing.

CNT 6144 Advanced IoT Analytics with Cloud Services (3). This course will focus on the theoretical concepts, principles, tools, techniques and deployment models and analytics for cloud services.

CNT 6148 Advanced IoT & Sensor Big Data Analytics (3). This course focuses on Big Data processing associated with IoT/sensor devices in extracting actionable intelligence. The fundamental algorithms and techniques of Big Data for IoT data are explored.

CNT 6150 Advanced Sensor & IoT Data Analysis with Deep Learning (3). This course will focus on the use of deep learning techniques and algorithms on structured and unstructured data received from sensors and IoT devices.

CNT 6152 Advanced IoT & Sensor Data Visualization (3). This course will focus on the design of visualization frameworks and libraries to produce effective dashboards and other visual items.

CNT 6154 Advanced IoT Applied Machine Learning (3). The course focuses on the theoretical and principles of applying machine learning algorithms to sensor/IoT data sets, engaging in the techniques of feature extraction and evaluation in model building.

CNT 6156 Advanced IoT & Sensor Programming with Python (3). This course will focus on implementing control system applications with the Python programming language for IoT and sensor systems.

EEE 5261 Bioelectrical Models (3). Engineering models for electrical behavior of nerve and muscle cells, electrode-tissue junctions, volume conductions in tissue and the nervous system as an electrical network. Prerequisites: EEE 4202C or permission of the instructor. (F)

EEE 5275 Bioradiation Engineering: Detection and Measurement (3). Spectrum of radiation sources, types of fields, properties of living tissue, mechanisms of field propagation in tissue. Application in imaging and therapy, hazards and safety. Prerequisites: EEL 4410 or permission of the instructor. (S)

EEE 5348 Digital Electronics (3). Analysis and design of logic gates using saturated and non-saturating elements, transmission gates, interfacing of logic families, bistable circuits, A/D and D/A converters. Prerequisites: EEE 4304 or permission of the instructor.

EEE 5352 Bipolar Junction Transistors (3). Bipolar junction transistor physics. Semiconductor bulk properties at equilibrium and nonequilibrium. PN junction theory. Theory of the bipolar junction transistor. Prerequisites: EEE 3396 or permission of the instructor. (S)

EEE 5353 Field Effect Transistors (3). Field effect device physics and technology. MOS capacitor. DC and AC characteristics of the MOS transistor. The MOS transistor in dynamic operation. Prerequisites: EEE 3396 or permission of the instructor. (F)

EEE 5366 Industrial Electronics (3). A study of solid-state devices for the control of power, their applications and limitations in power-switching circuits and in the control of physical transducer. Prerequisites: EEL 4213, EEE 4304 or permission of the instructor. (F, every third year)

EEE 5371 High-Frequency Amplifiers (3). Analysis and design of high-frequency amplifiers and oscillators: stability, scattering parameters, use of the Smith chart and other practical design tools, noise. Prerequisites: EEE 4304, EEL 4410 or permission of the instructor. (F, every third year)

EEE 5425 Introduction to Nanotechnology (3). Nanoscale electrical, optical and magnetic device operation. Overview of new devices enabled by nanotechnology, methods for fabrication and characterization of nanoscale and devices. Prerequisite: EEE 3396.

EEE 5427C Advanced Nanofabrication of Electronic Devices (3). This course covers the advanced theory and technology for the fabrication of micro/nano-scale electronic devices. Includes lectures and laboratory sessions on techniques such as lithography and etching. Prerequisites: EEE 5425 or permission of the instructor.

EEE 5515 Signal Detection Theory (3). This course thoroughly investigates the fundamentals of modern signal detection theory. The topics to be covered include: Deterministic signals, Random signals, Statistical decision theory. Prerequisites: EEE 5543 or permission of the instructor.

EEE 5543 Random Signal Principles (3). Noise, random processes, correlation, spectral analysis in the analysis and design of communication systems. Optimization techniques; minimum mean square error. Prerequisite: EEL 3514. (SS, alternating years)

EEE 5557 Principles of Modern Radar (3). Radar Range Equation, Noise and clutter detection, Target Reflectivity, Radar Transceiver Design, Monopulsing, Waveforms and Pulse Compression, Radar Detection, Doppler Phenomenology, CFAR. Prerequisites: EEL 5467, EEL 5426 or instructor permission.

EEE 5718 IoT Security and Privacy (3). In this class, the students will learn the topics related to the security and privacy of Internet of Things field by learning the state-of-the-art in these areas and by gaining hands-on experience on real IoT devices in a class project. This class involves significant programming. Prerequisites: EEL 2880 or COP 2210 or COP 2250 or equivalent or other prior programming experience or instructor permission and prior security class or instructor permission.

EEE 5772 Intelligent Robotics, Vision, and Controls (3). This course provides the fundamentals of mobile robots, arm robots, camera models, image processing, feature extraction, and multi-view geometry, and visual servo systems. Prerequisite: MATLAB experience or permission from the instructor.

EEE 6285 Biosignal Processing I (3). Characterizing biosignals by application of time and frequency domain analytic methods. Comparison of analog and digital processing. Engineering design for VLSI implementations in implantable devices. Prerequisites: EEE 6502 or permission of the instructor. (F)

EEE 6286 Biosignal Processing II (3). Engineering design of advanced systems for processing biosignals. Methods for signal compression. Adaptive systems for automatic recognition. Application of artificial intelligence for signal classification. Prerequisites: EEE 6285 or permission of the instructor. (S)

EEE 6311 Advanced Electronic Systems I (3). Principles of analog and digital electronics network. Advanced analysis, modeling and computer simulation of op-amps. Analog design techniques and practical examples are covered. Prerequisites: EEE 4314 or permission of the instructor. (F, alternating years)

EEE 6312 Advanced Electronic Systems II (3). Study of linear properties of electronic systems and design of fault-tolerant systems using A/D and D/A and control algorithms. Prerequisites: EEE 6311 or permission of the instructor. (S, alternating years)

EEE 6315 Advanced Solid-State Electronics (3). IC technologies, properties and fabrication concepts. Bipolar, MOS, I2L, CCD, bubble technologies. Ion implantation characteristics. Lithography techniques. Prerequisites: EEE 3396, EEE 4304 or permission of the instructor. (SS, every third year)

EEE 6318 Semiconductor Material and Device Characterization (3). This course presents the fundamental principles of many of the characterization techniques used in the semiconductor industry. Concepts and theory underlying the techniques are reviewed. Prerequisite: Graduate standing or permission of the instructor.

EEE 6332 Thin Film Engineering (3). Thin films used in microelectronics and optoelectronics; deposition methods; the evolution of film microstructure; film growth modeling; introduction to film analysis. Prerequisite: EEE 3396. (SS, alternating years)

EEE 6335 Electrical Transport in Semiconductors I (3). This course focuses on carrier transport fundamentals, beginning at the microscopic level and progressing to the macroscopic effects relevant to semiconductor devices. Prerequisite: EEE 5352. (F, alternating years)

EEE 6337 Electrical Transport in Semiconductors II (3). This course focuses on quantum phenomena occurring in carrier transport in modern small-size semiconductor devices. Prerequisite: EEE 6335.

EEE 6395 Applied Superconductivity (3). Covers the basic physical properties of superconductors. Superconducting devices: squids, memory & logic elements. Emphasis is placed on applications of superconductors. Prerequisites: EEE 3396 and EEL 4410. Corequisite: Permission of the instructor. (S)

EEE 6397 Semiconductor Device Theory (3). Device physics and modeling of GaAs FETS. GaAs analog and digital integrated circuits. Modulation doped field-effect transistors. Heterojunction bipolar transistor theory. Prerequisite: EEE 3396. (S)

EEE 6399C Electronic Properties of Materials (3). Properties of materials from which electronic components and structures are fabricated; electrical conduction in metals, semiconductors and insulators; thermal; magnetic; optical. Prerequisite: EEE 3396. (F, alternating years)

EEE 6429 Advanced Quantum Computers (3). This course provides advanced principles of quantum computers and quantum information systems with in-depth analysis and state of the art physical implementations.

EEE 6434 Colloidal and Nanoscale Engineering (3). In-depth coverage of the fundamentals of colloidal interactions between surfaces, particles, surfactants and biomolecules, and their relevance to self-assembly. Prerequisites: Knowledge of thermodynamics, statistical mechanics and/or physics.

EEE 6466 Microsystems and MEMS: Chem/Bio Sensors and Microfabrication (3). This course will give students an introduction with an emphasis on design and analysis of fundamentals of electrochemical sensing and integration into microfluidic systems. Prerequisites: EEL 3396 or permission of the instructor.

EEE 6502 Digital Signal Processing (3). Treatment of digital signal and system characteristics: Z transforms and FFT theory. Real-time and correlation functions. Multidimensional signal processing and digital filtering. Prerequisite: Permission of the instructor. (F)

EEE 6516 Signal Estimation Theory (3). The course covers both the theoretical and practical aspects of statistical parameter estimation from received signals in noise. Both classical estimation and Bayesian estimation are studied. Prerequisite: EEE 5543 or permission of the instructor.

EEE 6525 Advanced Sensor Signal Processing (3). Various sensor systems, sensor signal detection, signal estimations, distributed sensor networks, sensor data fusion approaches, wireless sensor networks, radar networks and optimal sensor allocation and sensor network design. Prerequisite: EEL 3514 or permission of the instructor.

EEE 6719 Cyberphysical Systems Security (3). Expose students to fundamental security primitives specific to CPS. The topics will cover the cyber and physical attacks, security of CPS protocols, key management and privacy and control. Prerequisite: A Network Security related course or consent of the instructor

EEE 6751 Advanced Image and Video Forensics (3). The course covers the theoretical and advanced practical aspects and principles of forensic image and video analysis and their application to digital forensics.

EEE 6753 Advanced Network Forensics and Incident Response (3). The course covers the theoretical and advanced practical aspects of computer network forensics and security.

EEE 6755 Advanced Mobile Forensics (3). The course covers the theoretical and advanced practical aspects of digital forensics of mobile devices.

EEE 6764 Platform Design, Testing, and Validation for IoT Applications (3). This course will be able to fabricate, assemble, and design driving firmware of the custom-designed IoT system/device and hands-on experience on the IOT hardware platform design, optimization, testing. Prerequisite: Permission from instructor (No hardware design experience is required)

EEE 6765 Advanced Embedded Systems Design and Implementation for IoT Applications (3). This course will provide hands-on experience on the hardware design and implementation of a typical IoT system/device using Eagle/Autodesk PCB design software. Prerequisite: EEL 3110 and EEL 3110 or permission from instructor (No hardware design experience is required)

EEE 6766 Algorithm Design and Firmware Implementation for IoT Sensing, Network Connectivity, and Closed-Loop Control (3). This course will provide solid firmware programming experience on essential IoT components including wireless communication, sensor interfacing (ADC, USART, I2C and SPI) and digital signal processing. Prerequisite: Permission from instructor (Basic programming experience is required)

EEE 6767 Advanced Embedded Programming for IoT Sensing, Network, Control, and Applications (3). This course will provide hands-on experience on the software design and implementation of a typical IoT system/device on a customer-made IoT education platform of CyberSens-EDU. Prerequisite: COP 2210 or permission from instructor (Basic programming experience is required)

EEL 5009 Concepts in Electrical and Computer Engineering (3). The course covers a broad range of topics and concepts required for pursuing a Master's Degree in Electrical and Computer Engineering. Prerequisite: Permission of the instructor.

EEL 5145 Advanced Filter Design (3). Graduate course in the design and advance analysis of passive and active high order circuits. Use of the computer as a design tool. Prerequisites: EEL 4140 or permission of the instructor. (S, alternating years).

EEL 5171 Advanced Systems Theory (3). State-space representations for continuous and discrete-time systems, controllability and observability, pole-zero allocation, Lyapunov stability theorem, state observers. Prerequisites: EEL 3657 or permission of the instructor. (S)

EEL 5259 Modeling and Analysis of Modern Distribution Grids (3). This course covers modelling, design, analysis, and operations of low and medium voltage electric power distribution systems including the increasing penetration of distributed generators.

EEL 5260 Power System Optimization (3). This course covers recent advances in optimization techniques and

their applications to electric power grid planning and operational problems.

EEL 5270 Electrical Transients in Power Systems (3). Traveling waves on transmission and multi-conductor systems, successive reflections, distributed parameter systems, transients on integrated power systems. Prerequisites: EEL 4213 or permission of the instructor.

EEL 5275 Power Systems Protection (3). Analysis of power systems under faulted conditions using linear transformation. The study of surge, transient and waves on power lines. Computer-aided analysis and design emphasizing protection of equipment. Prerequisites: EEL 4215 or permission of the instructor. (F)

EEL 5278 Smart Grid Cyber Security and Intelligent Electronic Devices (3). Design, simulate and solve smart grid cybersecurity issues. Manmade and natural large scale disturbances. Smart grid cyber networked standards and new Intelligent Electronic Devices (IED). Prerequisite: Graduate standing.

EEL 5285C Sustainable and Renewable Energy Sources and Their Utilization (3). Alternative energy techniques, solar power, wind power, biomass, and other sources, electric power grid and integration of renewables, energy storage and smart energy utilization and public policy. Prerequisites: EEL 4213 or equivalent.

EEL 5426 RF Circuit Design (3). Transmission lines, guided EM propagation, microwave circuits, resonators, impedance matching, passive components, thin-film circuits, filters, two-port networks, measurements, advanced simulations. Prerequisites: EEL 3135 and EEL 3110.

EEL 5427C Electromagnetic Modeling of Radio Frequency (RF) Structures (3). The goal of this course is to teach modeling RF, terahertz and photonics structures using electromagnetic full-wave solvers. The class will use commercial EM solvers to model state-of-the-art problems. Prerequisite: EEL 3135, EEL 4410.

EEL 5437 Microwave Engineering (3). Microwave guides. Microwave tubes. Microwave solid-state devices. Microwave integrated circuits, Microwave enclosures. Prerequisites: EEL 4410 or permission of the instructor. (S, every third year)

EEL 5467 Antennas for Wireless Communication Systems (3). Antenna principles, wire antennas, printed antennas, antenna arrays, and measurements. Full-wave simulation software is used for the design and analysis of antennas for wireless communication systems. Prerequisite: EEL 4410 or permission of the instructor.

EEL 5482 Fields and Waves Engineering (3). Concepts and theorems in fields and waves, analytic techniques for guided waves, radiation and scattering, numerical techniques for analysis of electrical devices. Prerequisites: EEL 4410 or permission of the instructor. (S)

EEL 5500 Digital Communication Systems I (3). This course will consider the most important aspects of digital communication systems such as noise-related subjects, random signals, linear systems, and baseband digital modulation and multiplexing. Prerequisites: EEL 3514 or permission of the instructor. (SS)

EEL 5501 Digital Communication Systems II (3). This course will consider more important aspects of digital communication systems such as matched filters, digital base and modulation, multiplexing, carrier digital modulation and error correction coding. Prerequisites: EEL 5500 or permission of the instructor. (F)

EEL 5563C Introduction to Optical Fibers (3). Use of fiber optics as a communication medium. Principles of fiber optics; mode theory; transmitters, modulators, sensors, detectors and demodulators; fiber data links. Prerequisites: EEL 3514, EEE 4314 and EEL 4410 or permission of the instructor. (F, alternating years)

EEL 5587 Long Term Evolution Communication: From Theory to Practice (3). Introduction to the basic concepts in Long Term Evolution (LTE) technology and beyond. Prerequisite: Permission of the instructor.

EEL 5591C Wireless Digital Communications with USRP Applications (3). The course covers the fundamentals of wireless digital communications from a DSP perspective. Hands-on experience with wireless communication principles is achieved through lab experiments and course projects. Prerequisites: EEL 3514, EEE 4510.

EEL 5653 Digital Control Systems (3). Analysis and design of digital control systems. Z-transforms, analysis and control of discrete-time systems, digital control of analog systems. Several digital controller design methods. Computer simulation and microprocessor implementation. Prerequisite: EEL 3657. (SS)

EEL 5669 Autonomous Systems and Controls (3). This course provides an in-depth discussion to the fundamental components of autonomous systems and controls. In particular, the course will allow the students to master the building blocks. Prerequisite: COP 3337, COP 4338, or permission by instructor.

EEL 5718 Computer-Communication Network Engineering (3). System engineering synthesis, analysis, and evaluation of computer-communication networks. Network design, routing and flow control, telecommunication traffic engineering, transmission, switching, etc. Prerequisite: Permission of the instructor. (SS)

EEL 5719 Digital Filters (3). Analysis, design and implementation of digital filters. Hardware and software approach to design. Prerequisite: Permission of the instructor. (F)

EEL 5725 Hardware Description Languages (VHDL or Verilog) (3). This course involves systematic studies of Fault-Tolerant Digital Systems, VHDL and VERILOG based dynamic digital system designs, and system implementations with CPLDs, FPGAs, ASICs. Prerequisite: EEE 4304, EEL 4746 or Permission of the instructor. (F)

EEL 5741 Advanced Microprocessor Systems (3). Interfacing of various microprocessors together. Concepts of master-slave systems, virtual memory and I/O control techniques. Digital system evaluation and optimization. Prerequisites: EEL 4746 or permission of the instructor. (SS, alternating years)

EEL 5757 Real-Time Digital Signal Processing Implementations (3). Techniques for the implementation

of Digital Signal Processing (DSP) algorithms in dedicated processors, for assessing the real-time performance of audio, control, and communication systems. Prerequisites: EEE 4510 or permission of the instructor.

EEL 5799 Advanced Concepts in Computer Engineering (3). This course covers a range of topics and concepts required for pursuing a Master's Degree in Computer Engineering associated with the integration of hardware and software in devices for cybersecurity. Prerequisite: Instructor's Permission

EEL 5807 Advanced Ethical Hacking (3). This will give individuals exposure to the latest hacking tools and techniques to understand the anatomy of computer attacks and teach them the countermeasures to protect their valuable data.

EEL 5809 Advanced Concepts in Electrical and Computer Engineering (3). The course covers a range of topics to provide a theoretical foundation of cybersecurity in engineering for students entering into the cybersecurity program. Prerequisite: Instructor's Permission.

EEL 5813 Neural Networks-Algorithms and Applications (3). Various artificial neural networks and their training algorithms will be introduced. Their applications to electrical and computer engineering fields will also be covered. Prerequisite: Permission of the instructor. (SS)

EEL 5820 Digital Image Processing (3). Image Fundamentals, Image Transforms, Image Enhancement, Edge Detection, Image Segmentation, Texture Analysis, Image Restoration, and Image Compression. Prerequisite: EEL 3135 and knowledge of any programming language (FORTRAN, Pascal, C). (F)

EEL 5935 Advanced Special Topics (1-3). A course designed to give groups of students an opportunity to pursue special studies in an advanced topic of Electrical Engineering not otherwise offered. Prerequisite: Consent of instructor.

EEL 5941 Graduate Electrical and Computer Engineering Internship (1-3). Graduate students acquire practical experience through a supervised internship in the industry. The student prepares an internship proposal, and the work performed is documented in a report and presented. Prerequisite: Permission of the student's advisor.

EEL 5945 Electrical and Computer Engineering Teaching Practicum (1). Graduate students acquire practical teaching experience through supervised course teaching. The student prepares an internship proposal, and the work performed is documented in a report and presented. Prerequisite: Permission from the student's advisor and department. Corequisite: Teaching at least one full course during that semester.

EEL 6020 Numerical Analysis of Electrical Devices (3). Numerical techniques for the analysis of static and diffusion eddy current type field problems and associated phenomena in electrical devices. Emphasis on implementation and applications to practical problems. Prerequisites: EEL 4213, MAP 3302 or equivalent or permission of the instructor. (SS)

EEL 6141 Advanced Network Analysis (3). Modeling and analysis of networks by t-domain and s-domain techniques. Topics include topology, formulation of loop eqs and node pair eqs., state-space networks, computer solutions. Prerequisites: EEL 3112 or permission of the instructor. (S, every third year)

EEL 6167 VLSI Design (3). Study of VLSI Design concepts in MOS/CMOS environment, CAD techniques, VLSI array processors and wavefront array processors, and implementation of array processors. Prerequisites: EEL 5741, EEE 4314. (SS, alternating years)

EEL 6219 Electric Power Quality (3). Modeling of networks under non-sinusoidal conditions, loads which may cause power quality problems, analysis of harmonics, flickers, impulses, standards, power quality improvement methods. Prerequisites: EEL 4213 or permission of the instructor.

EEL 6235 Motor Drives Control (3). Switched, resonant and bidirectional power supplies, DC motors: single, three -phase and chopper drives. AC motors: voltage, current and frequency control. Closed-loop control. Prerequisites: EEL 4213, EEE 3303, EEL 3657. (SS, alternating years)

EEL 6253 Computer Analysis of Power Systems (3). Power systems analysis and designs by computer solutions. Interactive solutions, power flow, optimum solutions. Dynamic solutions and stability. Prerequisites: EEL 4215 or permission of the instructor. (F, every third year)

EEL 6254 Power Systems Reliability (3). Expansion planning, load forecasting, reliability and availability application to generation planning, bulk power supply systems, generation system operation and production costing analysis. Prerequisites: EEL 4215 or permission of the instructor. (S)

EEL 6261 Power Systems Engineering (3). Steady-state analysis, fault studies, load flow, dynamic and transient performance, on-line control, practical applications. Prerequisites: EEL 4215 or permission of the instructor. (SS, every third year)

EEL 6267 Application of Intelligent Systems to Power System Operations (3). Power system security assessment using intelligence systems techniques such as pattern recognition, expert systems, and neural networks. Class projects include applying IS to load forecasting, alarm processing. Prerequisites: EEL 4214, EEL 6273. (SS, alternating years)

EEL 6273 Power System Stability and Control (3). Direct methods for system stability, computer analysis of large scale models, Lyapunov stability, longer term stability, security analysis, MW-frequency control, isolated and multiple area control. Prerequisites: EEL 4215 or permission of the instructor. (S)

EEL 6292 Power Systems Economics and Markets (3). This is a graduate-level course that covers the basic economics principles underpinning the design, operation, and planning of modern power systems in a competitive environment. Prerequisite: EEL 4213 or equivalent.

EEL 6297 Introduction to Smart Grid and its applications (3). This course covers the fundamentals of smart grid. It provides the working definition of the functions, design criteria, tools, techniques, and technology needed for building smart grid. Prerequisite: EEL 4213 or equivalent.

EEL 6438 RF and Microwave Photonics (3). This course provides advanced principles of quantum computing and quantum information with in-depth analysis and state of the art implementations.

EEL 6439 RF System Design for Wireless Communications (3). The course introduces the basic concepts of wireless transceiver design for digital communications. Topics: RF transmitters and receivers, RF systems blocks, noise and noise figure, non-linearity, and intermodulations, intercepts points, phase noise, IIQ imbalances. Prerequisite: EEL 3514 or permission of the instructor

EEL 6443 Electro-Optical Devices and Systems (3). Introduction to optical devices and systems such as solid-state laser systems, their applications in industry. Also holography, linear and non-linear optical modulation and demodulation concepts. Prerequisites: EEL 4410, EEE 4314. Corequisites: EEL 5563 or permission of the instructor. (S, every third year)

EEL 6444 Optical Fiber Communication Systems (3). Course focuses on specification, design and application of fiber optic communication systems considering the fiber optic waveguide, optical device sources, photodetector, receiver and transmitter designs. Prerequisites: EEL 5501 or permission of the instructor. (S, every third year)

EEL 6463 Antenna Theory and Design (3). Radiation patterns of dipoles and loops, array analysis and synthesis, self-impedance and mutual impedance, frequency-independent antennas and antenna miniaturization, and reflectors and lens antenna. Prerequisite: EEL 4410. (S, alternating years)

EEL 6468 Adaptive and Smart Antennas (3). The course introduces an in-depth understanding of modern adaptive and smart antenna concepts. Topics include smart antennas, direction of arrival estimation, beamforming, and space-time processing. Prerequisite: EEL 5467 or permission of the instructor.

EEL 6479 Electromagnetic Interference and Electromagnetic Compatibility (3). The goal of this course is to teach concepts of electromagnetic compatibility and electromagnetic interference to the graduate students. Prerequisites: EEL 3135 and EEL 4410

EEL 6509 Digital Communications by Satellite (3). This course will consider processing and non-processing transponders, earth terminals, propagation link characteristics, multiple access techniques, and spread spectrum techniques. Prerequisites: EEL 5501 or permission of the instructor. (S)

EEL 6536 Spectral Analysis (3). Methods for the analysis and estimation of a signal's spectral content. These include nonparametric, parametric and line spectral estimation, filter bank techniques and array processing. Prerequisites: EEE 5543 or EEE 6502 or permission of the instructor.

EEL 6572 Pictorial Information Systems Design (3). Picture input device design, pictorial information systems hardware, picture processor design, picture storage system design, pictorial database system design, picture communication interface design, and engineering applications. Prerequisites: EEL 4709C or CDA 4400. (SS)

EEL 6575 Data Communications Engineering (3). Digital networks for data communications, CCITT, HDLC, SDLC. Real-time switching techniques. Microprocessor-based network topologies. Busing schemes such as VME, MULTIB, RS232. Prerequisites: EEL 4746 and EEE 4314 or permission of the instructor. (F)

EEL 6614 Modern Control Theory I (3). Graduate-level treatment of modern control systems. Optimal control of feedback systems. Performance measures, Pontryagin's minimum principle, dynamic programming, numerical techniques. Prerequisites: EEL 5171 or permission of the instructor. (F, alternating years)

EEL 6615 Modern Control Systems, Theory, and IoT Applications (3). Course in Internet-of-things (IoT) applications, feedback control, and the hands-on implementation on the CPS systems sensing, and systems testing. Prerequisites: EEL 6614 or permission of the instructor. (S, alternating years)

EEL 6673 Cyber-Physical Systems Identification and IoT Applications (3). Course in Cyber-Physical System modeling, diagnostic tests, and systems validation. Hands-on implementation on the design of embedded CPS systems. Prerequisite: EEL 5171. (F, alternating years)

EEL 6681 Fuzzy Systems Design (3). Applications of fuzzy theory to develop design methodologies for various engineering systems. Emphasis will be on systems for pattern recognition, model identification, and automatic control. Prerequisite: Permission of the instructor.

EEL 6726 Advanced VLSI Design (3). Advanced design and development of Very Large Scale Integrated Circuit (VLSI) Micro Chip Structures. Micro Chip routing and thermal optimizations will be emphasized for implementing VLSI units. Prerequisite: Permission of the instructor. (S, every third year)

EEL 6751 Wavelet Theory Applied to Signal Processing (3). Application of wavelet theory to transient and non-stationary signal processing; compression and noise reduction of signals, singularity and edge detection, and time-frequency analysis. Prerequisites: EEL 3135 or equivalent.

EEL 6758 Engineering Design of Microprocessor-Based Operating Systems (3). Hardware microprocessor-based systems, BIOS (basic input and output), Kernel partitions, memory, stack organization and physical design of operating systems. Prerequisites: EEL 4709C and EEL 4746 or permission of the instructor. (S, every third year)

EEL 6787 Network Security (3). Network Security Requirements, Number Theory, Steganography, Encryption Design Principles and Algorithms, Message Authentication and Digital Signature Principle and Designs, Network System Security Design. Prerequisite: Permission of Instructor.

EEL 6795 Power-Aware Computing (3). The power/thermal challenges in computing system design; source of the power dissipation and power/thermal modeling; power/thermal aware design techniques at different design abstraction levels. Prerequisites: EEL 4709C or permission of the instructor.

EEL 6803 Advanced Digital Forensics (3). This course provides students with the advanced skills to track and

counter a wide range of sophisticated threats including espionage, hacktivism, financial crime syndication, and APT groups. Prerequisite: EEL 4802.

EEL 6805 Advanced Malware Reverse Engineering (3). This course provides the student with the necessary tools and techniques to perform practical reverse engineering on suspicious files and firmware encountered in a range of devices and understanding the implications associated with malware attacks. Prerequisite: EEL 4802.

EEL 6812 Advances in Neural Networks (3). Latest concepts in artificial neural networks research and newly developed applications. Implementation, convergence in learning algorithms, accuracy refinement, and optimal structure of neural networks. Engineering applications. Prerequisite: EEL 5810. (F, alternating years)

EEL 6816 Electronic Neural Systems (3). This course bridges electronics to the understanding of neurobiologically inspired models. Biological tasks and neural computations are studied in the context of networks and processing elements. Prerequisite: Permission of Instructor.

EEL 6821 Computer Vision (3). Image formation and image properties, Radiance and irradiance, introduction to Brain Topography, Color Vision, visual machinery of the brain, statistical pattern classification and decision functions, the eigensystem and its computational aspects, stereo vision, motion vision, size and orientation independence. Prerequisite: EEL 5820. (S)

EEL 6825 Patten Recognition (3). Pattern recognition techniques via computer: decision functions, optimum decision criteria, training algorithms, unsupervised learning, feature extraction, data reduction, machine intelligence. Prerequisites: EEE 5543 or permission of Instructor.

EEL 6836 Computer Visualization of Brain Electrical Activity (3). Computer techniques for the visualization of brain electrical activity. Analysis of the origin of this activity as it relates to its measurement and visualization through computerized systems. Prerequisites: EEE 4510 or permission of instructor.

EEL 6870 Intelligent Computer Design (3). The course involves self-testing and correcting type of modular computer system development. Also concepts relating to Artificial Intelligence and Expert systems will be integrated into the computer system design. Prerequisite: EEL 4709C. (F, alternating years)

EEL 6894 Real-Time Computing and Applications (3). Introduction to real-time computing; real-time system modeling; classic uniprocessor scheduling; power-aware and thermal-aware real-time scheduling; multiprocessor and distributed real-time computing. Prerequisites: EEL 4709C or permission of the instructor.

EEL 6905 Individual Work (1-4). Special problems or projects selected by the students and faculty member. The student conducts the project with a minimum of supervision. Consent of Department Chairperson and Faculty Advisor.

EEL 6916 Graduate Project (3). Independent research work culminating in a professional practice-oriented report for the requirements of the non-thesis option of the M.S. degree project. Prerequisites: Fifteen graduate credits and approved project plan.

EEL 6931 Special Topics in Electrical and Computer Engineering (1-3). Course covers advanced topics not in existing graduate courses in electrical and computer engineering. Prerequisite: Permission of the instructor.

EEL 6932 Graduate Seminar (1). An examination of recent technical findings in selected areas of concern. Emphasis is placed on presentations (oral and written), research activities, readings, and active discussions among participants. Prerequisite: Consent of graduate advisor.

EEL 6971 Research Master's Thesis (1-6). The student, following the option of the Master's Degree with thesis, should work for his/her thesis through this course. Prerequisite: Graduate standing.

EEL 6977 Extended Thesis Research (0). For Graduate research students who have completed their sequence of thesis credits, but must register for a course to remain on graduate student status.

EEL 7910 Advanced Research (1-6). Advanced research credits under the supervision of the dissertation advisor. Prerequisite: Completion of the written comprehensive examination.

EEL 7980 Ph.D. Dissertation (1-12). Doctoral research leading to Ph.D. Electrical Engineering Dissertation. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

OSE 6492 Nanophotonics (3). This course focuses on nanoscale processes and devices and their applications for manipulating light on the nanoscale. Photonic crystals, plasmonics, metamaterials and Si photonics are covered. Prerequisites: EEE 3396, EEE 5425 or equivalent.

TCN 5155 Wireless Communications with Multimedia Applications (3). Overview of wireless communications systems; interference, blocking, spectral efficiency; performance of digital modulation in the presence of fading; diversity techniques; and multimedia applications. Prerequisite: EEL 3514.

TCN 5271 Advanced IoT Communications and Networking (3). This course presents advanced paradigms in terms of communication of IoT devices and the underlying networking protocols. Topics covered include IoT platforms, applications and protocol stack. Prerequisites: Graduate standing and permission of the instructor.

TCN 6276 Antennas for Wireless and Body-Centric Communications (3). Advanced antenna theory, simulation, and design as applied to wireless communications, advanced state-of-the-art antenna systems, and body-centric wireless communications. Prerequisites: EEL 4410 or permission of the instructor.

TPA 5213 Performing Arts Technology (2). Applications of structural, mechanical, electrical and electronic technologies to prepare performing arts students for management and production roles. Includes basic circuits and NEC codes, control systems. Prerequisite: Permission of graduate advisor.

Mechanical and Materials Engineering

Arvind Agarwal, *Chairperson, Distinguished University Professor, and Director, Advanced Materials Engineering Research Institute*
Wei-Yu Bao, *Associate Teaching Professor*
Kevin Boutsen, *Assistant Teaching Professor*
Alicia Boymelgreen*, Assistant Professor*
Seyad Ebrahim Beladi, *Associate Teaching Professor*
Benjamin Boesl, *Associate Professor, Associate Chair and Undergraduate Program Director*
Yiding Cao, *Professor*
Jiuhua Chen, *Professor and Director, Center for the Study of Matter at Extreme Conditions*
Zhe Cheng, *Associate Professor*
Darryl Dickerson, *Assistant Professor*
George S. Dulikravich, *Professor*
Abderrachid Hamrani, *Visiting Assistant Professor*
Gordon Hopkins, *Professor and Dean Emeritus*
W. Kinzy Jones, *Professor Emeritus*
Cheng-Yu Lai, *Associate Professor*
Cesar Levy, *Professor Emeritus*
Cheng-Xian (Charlie) Lin, *Associate Professor*
Pezhman Mardanpour, *Associate Professor*
Dwayne McDaniel, *Associate Professor, Co-Graduate Program Director*
Carmen Muller-Karger, *Assistant Teaching Professor*
Norman Munroe, *Professor*
Vladimir Pozdin, *Assistant Professor (secondary appointment)*
Anamika Prasad, *Associate Professor, (secondary appointment)*
Daniela Radu*, Associate Professor, Graduate Program Director*
Meer Safa, *Coordinator of Research and Laboratories Manager*
Surendra Saxena, *Emeritus Professor*
Carmen Schenck, *Associate Teaching Professor and Advisor*
Ju Sun, *Teaching Professor*
Stephen Secules*, Assistant Professor (secondary appointment)*
Alexandra C. Strong*, Assistant Professor (secondary appointment)*
Aaron Tallman, *Assistant Professor*
Ibrahim Tansel, *Professor and Director, Engineering Manufacturing Center*
Tony Thomas*, Assistant Teaching Professor*
Andres Tremante, *University Instructor and Director, Center for Diversity in Engineering*
Chunlei (Peggy) Wang, *Professor*

Mechanical Engineering, a major division of the engineering profession, plays a major role in our technologically advanced society. The design and manufacturing of power plants, automobiles, aircrafts, robots to improved methods of transportation and production by industrial robots are but a few important inventions that would not have been realized without the creativity associated with the mechanical engineering profession. The mechanical engineer is a vital ingredient in most industries that require automation, computers and medical technology, as well as areas as diverse as space exploration, environmental control and bioengineering. In fact, the mechanical engineer has a direct input in all facets of modern life. There is a high demand for graduates in mechanical engineering from high technology industries throughout the United States and the developing world. The Mechanical and Materials Engineering Department at FIU takes pride in providing well educated and technologically competent graduates to serve these industries.

The academic program provides a well-balanced curriculum in the following areas of specialization:

- Mechanical Systems
- Mechanics
- Robotics and Mechatronics
- Thermo/fluid Systems
- Heating-Ventilation-and-Air-Conditioning (HVAC)
- Material Characterization
- Manufacturing and Automation Systems
- Materials Science and Engineering
- Multidisciplinary Design Optimization and Inverse Design
- Computational Analysis and Distributed Parallel Computing
- Biomechanics
- Laser and Plasma Materials Processing
- Nanomaterials
- Nanotechnology
- Electronic Packaging
- Optical Measurement and Diagnostics
- Waste Management
- Renewable Energy

Materials Science and Engineering is a dynamic field involved in the synthesis, structure, properties and performance of materials. Advanced materials are the foundation of manufactured products and many of the technological advances of this century were enabled by the development of new materials. Materials Science and Engineering is a graduate program only, with undergraduate electives offered in the Mechanical Engineering curriculum to prepare the student for graduate education in materials science and engineering. The academic program offers specialization in metallurgy, ceramics, electronic materials, nanomaterials and biomaterials. There is an increasing demand for graduates in materials science and engineering, with high technology industries leading the need for graduates. In fact, many of the companies needing materials scientists and engineers did not exist 20 years ago. Because everything is made of materials and new materials, such as nanomaterials, are rapidly being developed, materials science and engineering is a growth field in engineering.

Opportunities also exist for conducting research in the following Centers:

Advanced Materials Engineering Research Institute (AMERI): This center provides open access to research instrumentation, characterization capabilities and process development laboratories to support materials science and engineering research over the range from nanomaterials to bulk properties. AMERI also houses a nanofabrication facility for device fabrication.

The Center for the Study of Materials under Extreme Conditions (CeSMEC): The center focuses on study of

physical property and synthesis of materials at extreme conditions of pressure, temperature and size. The center is equipped with state of the art facilities in X-ray diffraction, spectroscopy, thermodynamic and first principle computations. Recent additions are hydride synthesis and diamond-growth facilities.

Multidisciplinary Analysis, Inverse Design, Robust Optimization and Controls (MAIDROC) Laboratory: It has a 280-processor parallel computer running Linux and MPI. MAIDROC provides independent, secure, and up-to-date computing environment for diverse large-scale simulation and design projects involving several engineering disciplines such as fluid dynamics, solid mechanics, heat transfer, electro-magnetics and chemistry.

Master of Science in Mechanical Engineering

The Department of Mechanical and Materials Engineering offers both thesis and non-thesis options for the Master's Degree in Mechanical Engineering. A student seeking the Master's degree with or without thesis is required to pass a comprehensive oral or written examination.

All work counted for the Master's degree must be completed during the six years immediately following the date of admission.

The program provides a broad education, covering more than one field, followed by in-depth studies in areas of interest.

Admission Requirements

The following is in addition to the University's graduate admission requirements:

1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science or mathematics from an accredited institution, or, in the case of foreign students, from an institution recognized in its own country as preparing students for further study at the graduate level.
2. An applicant must have achieved a "B" average, GPA of 3.0 in upper level undergraduate work.
3. Applicants who have not satisfied the above will be evaluated for probationary or waiver admission.
4. In addition to the above criteria, International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version, or 213 on the computer-based version of the Test of English as a Foreign Language) or 6.5 overall on the IELTS is required.
5. The GPA and TOEFL scores specified above are to be considered minimum requirements for admission. Applicants from science areas other than mechanical engineering will be expected to complete remedial undergraduate courses selected to prepare them for graduate courses in their area of interest. Full admission to the graduate program requires the completion of these background courses with no grades below 'C' and a grade point average of 3.0 or better.

Graduation Requirements

The M.Sc. degree will be conferred when the following conditions have been met:

1. Recommendation of the advisor and faculty of the Department.
2. Certification provided by the Department Chair, College Dean, and University Graduate School that all degree requirements have been met.
3. Completion of the two applied/computational mathematics courses offered by the department, two courses outside student's major area and other courses as suggested by the student's major professor and committee.
4. Completion of undergraduate course deficiencies specified at admission, if any, with no grades below 'C' and a GPA ≥ 3.0.
5. Thesis option: Successfully completed a minimum of 30 semester hours of graduate course work as specified in an approved study plan containing at least 6 hours of 6000 level courses with a GPA ≥ 3.0 (the minimum successful grade is a 'C'. Not more than six semester hours transferred from another accredited graduate program that was not part of a previously awarded degree may be incorporated in the study plan) plus a minimum of six hours of masters thesis research.
6. Non-thesis option: Successfully completed a minimum of 30 semester hours of graduate course work as specified in an approved study plan containing at least 9 hours of 6000 level courses with a GPA ≥3.0 (not more than six semester hours transferred from another accredited graduate program that was not part of a previously awarded degree may be incorporated in the study plan).
7. Thesis option: Successful public oral defense of the thesis. Submission of the approved thesis to the Graduate School.
8. Non-thesis option: Successful completion of a final oral comprehensive examination covering the general objectives of the study plan.
9. Students must achieve an overall GPA ≥ 3.0 in all graduate work completed at FIU in their approved study plan.
10. Students must complete the Graduate Seminar course.
11. Students must comply with all relevant University policies and regulations.

Thesis Option

A student shall complete a minimum of 24 semester credit hours of course work, plus a minimum of 6 semester credit hours of EML 6971, Master's Thesis Research, and take MME Graduate Seminar.

The course requirements include a minimum of 12 hours of 6000-level course credit including thesis hours. A maximum of 6 credit hours of courses offered by other departments may be included among the 24 course hour minimum. A maximum of three credit hours of approved independent studies, EML 6908, may be counted toward the M.S. thesis degree. A maximum of six graduate credit hours can be transferred from other accredited institutions provided that the courses have not been used for another degree and have a minimum letter grade of 'B' and meet university requirements. Transfer courses must be approved by the advisor and Graduate Coordinator.

Early in the program (before the middle of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program.

When the thesis research is completed, the student should schedule a defense with an examining committee appointed through the Graduate School consisting of a least three graduate faculty members (at least two of whom should be from the MME Department). The thesis, with an approval cover letter from the advisor, should be given to the examining committee for review not less than four weeks before the scheduled defense. The candidate should prepare to summarize the thesis in the manner of a technical paper using appropriate visual aids in 40 minutes or less. Following the presentation, the candidate will answer questions related to the work from the audience and/or the committee. At the conclusion of the defense, the committee will agree on the outcome -pass or fail- and report the results to the Graduate School. Following the exam the student will implement the committee's suggestions for improving the draft document. Each committee member must sign the approval form in the final document. Copies of the approved thesis must be provided to the advisor, department, and the library. Students should become familiar with the University Graduate School's regulations and deadlines available on line at **http://gradschool.fiu.edu**.

Non-Thesis Option

A student shall complete a minimum of 30 semester credit hours of graduate course work, and one semester of Graduate Seminar. Non-thesis students are required to do a three-credit project under the independent study course registration. An approved study plan must include at least 9 credits of 6000 level graduate course work, including the project if elected. Up to nine credit hours of graduate course work from other departments may be included among the minimum of 30 credits. A maximum of six graduate credits from other accredited graduate programs completed with a 'B' or better and not counted toward a previous degree may be included in the study plan. Transfer credits must meet university requirements. The advisor and the Graduate Coordinator must approve transfer courses if they are to be included in a study plan. A maximum of three credits of independent study beyond an independent project may be included in a study plan.

Non-thesis students are required to take a final oral comprehensive exam dealing with the objectives of their study plan. If a project has been completed, the student will briefly summarize the project report (20 minutes) as a part of the exam. The examining committee will include a minimum of three faculty members, at least two of whom should be from the department.

Course Requirements

All MSME degree seeking thesis option students must take two of the following applied/computational mathematics courses offered by MME department plus the MME graduate seminar.

EGM 5315	Intermediate Analysis of Mechanical Systems	3
EGM 5346	Computational Engineering Analysis	3
EGM 5354	Finite Element Method Applications in Mechanical Engineering	3
EGM 6355	Nonlinear Finite Element Analysis	3
EGM 6422	Advanced Computational Engineering Analysis	3
EML 6725	Computational Fluid Dynamics	3
EML 6935	Graduate Seminar	0

An additional six credit hours of courses must be taken outside the major area of study of the student. The remaining 4 courses should in the area of the student's specialization or as suggested by the student's major professor and committee. Out of 24 semester credit hours of course work a maximum of three credit hours of approved independent studies, EML 6908, may be counted towards the M.S. thesis degree. A minimum of 6 credits of EML 6971 Thesis is also required.

All MSME degree seeking non-thesis option students must take two of the following applied/computational mathematics courses offered by MME department plus the MME graduate seminar.

EGM 5315	Intermediate Analysis of Mechanical Systems	3
EGM 5346	Computational Engineering Analysis	3
EGM 5354	Finite Element Method Applications in Mechanical Engineering	3
EGM 6355	Nonlinear Finite Element Analysis	3
EGM 6422	Advanced Computational Engineering Analysis	3
EML 6725	Computational Fluid Dynamics	3
EML 6935	Graduate Seminar	0

An additional six credit hours of courses must be taken outside the major area of study of the student. The remaining 6 courses should in the area of the student's specialization or as suggested by the student's project professor; one of those courses must be EML 6908 where the students will present their project work. Out of 30 semester credit hours of course work a maximum of six credit hours of approved independent studies, EML 6908, may be counted towards the M.S.

Thermo/Fluid (Each course is 3 credits unless stated otherwise)

EAS 6721	Advanced Aerodynamic Shape Design
EML 5103	Intermediate Thermodynamics
EML 5104	Classical Thermodynamics
EML 5152	Intermediate Heat Transfer
EML 5606C	Advanced Refrigeration & A/C Systems
EML 5615C	Computer Aided Design in A/C
EML 5708	Advanced Design of Thermal and Fluid Systems
EML 5709	Intermediate Fluid Mechanics
EML 6153C	Advanced Heat Transfer
EML 6154	Conduction Heat Transfer
EML 6155	Convection Heat Transfer
EML 6157	Radiation Heat Transfer
EML 6712	Advanced Fluid Mechanics
EML 6714	Advanced Gas Dynamics
EML 6725	Computational Fluid Dynamics

Mechanics/Materials (Each course is 3 credits unless stated otherwise)

EAS 5221	Design and Analysis of Aerospace Structures
EGM 5346	Computational Engineering Analysis
EGM 5354	Finite Element Method Applications in Mechanical Engineering
EGM 5615	Synthesis of Engineering Mechanics
EGM 6570	Fracture Mechanics
EMA 5001	Physical Properties of Materials
EMA 5106	Thermodynamics and Kinetics of Materials

EMA 5295	Principles of Composite Materials
EMA 5507C	Analytical Techn. of Materials Sciences
EMA 5935	Advanced Topics in Materials Engineering
EMA 6127C	Advanced Physical & Mechanical Metallurgy
EMA 6165C	Polymer Physics & Analytical Techniques
EML 5505	Smart Machine Design and Development
EML 5509	Optimization Algorithms
EML 5125	Classical Dynamics
EML 5385	Identification Techniques of Mech. Systems
EML 5562	Advanced Electronic Packaging
EML 6223	Advanced Mech. Vibration Analysis
EML 6233	Fatigue and Failure Analysis
EML 6805	Advanced Design of Robots

Design and Manufacturing

EAS 5221	Design and Analysis of Aerospace Structures
EML 5385	Identification Techniques of Mechanical Systems
EML 5505	Smart Machine Design and Development
EML 5509	Optimization Algorithms
EML 5519	Fault-Tolerant System Design
EML 5530	Intermediate CAD/CAE
EML 5562	Advanced Electronic Packaging
EGM 5615	Synthesis of Engineering Mechanics
EML 5808	Control Technology for Robotic Systems
EML 5802	Advanced Nondestructive Testing and Mechanical Health (MME)
EML 5825	Sensors and Applied Machine Intelligence
EML 6223	Advanced Mechanical Vibration Analysis
EML 6532	Advanced CAD/CAE
EGM 6570	Fracture Mechanics
EML 6805	Advanced Design of Robots

Master of Science in Mechanical Engineering – Robotics for Mechanical Engineers Track

Common Core (6 credits)

Choose 2 of 6 math courses

EGM 5315	Intermediate Analysis of Mechanical Systems	3
EGM 5346	Computational Engineering Analysis	3
EGM 5354	Finite Element Method Applications in Mechanical Engineering	3
EGM 6355	Nonlinear Finite Element Analysis	3
EGM 6422	Advanced Computational Engineering Analysis	3
EML 6725	Computational Fluid Dynamics	3

Track-Specific Courses (12 credits)

EML 5808	Control Technology for Robotic Systems	3
EML 6805	Advanced Design of Robots	3
EEL 5669	Autonomous Systems and Controls	3
EEE 6767	Advanced Embedded Programming for IoT	3
	Sensing, Network, Control, and Applications	

Track-Elective Courses (12 credits)

EML 5505	Smart Machine Design and Development	3
EMC 5415	Digital Control of Mechanical Systems	3
EML 5825	Sensors and Applied Machine Intelligence	3
EML 5125	Classical Dynamics	3
EML 5530	Intermediate CAD/CAE	3
EEE 6765	Advanced Embedded Systems Design and Implementation for IoT Applications	3
EEL 6821	Computer Vision	3
EEL 6825	Pattern Recognition	3
EEL 5813	Neural Networks-Algorithms and Applications	3
EEL 6812	Advanced in Neural Networks	3
EEL 6681	Fuzzy Systems Design	3

The Robotics track will require 6 credits as common core, 12 credits of track-specific core courses, and 12 credits of track-elective courses from the ECE and MME Departments, for a total of 30 credits.

Combined BS/MS in Mechanical Engineering Degree Pathway

Students, who pursue a BS degree and are in their junior year (completed 75 credits), with at least a 3.20 GPA on both overall and upper division courses may apply to enroll in the combined BS/MS pathway. To be considered for admission to the combined bachelor's/master's degree program, students must have completed at least 75-90 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees. In addition to the admission requirements of the combined BS/MS pathway, students must meet all the admission requirements of the University Graduate School.

Students enrolled in the pathway may count up to six credit hours of MME graduate courses as credits for both the BS and MS degrees. The combined BS/MS pathway has been designed to be a continuous enrollment pathway. During this combined BS/MS pathway, upon completion of all the requirements of the undergraduate program, students will receive their BS degrees. Students in this pathway have up to three major semesters to complete the master's degree after receipt of the bachelor's degree. Students who fail to meet this three-major-semester post BS requirement or who elect to leave the combined pathway at any time and earn only the BS degree will have the same access requirements to regular graduate programs as any other student, but will not be

able to use the six credits in both the bachelor's and master's degrees.

For each of the graduate courses counted as credits for both BS and MS degree, a minimum grade of "B" is required. Students enrolled in the pathway may count up to six credit hours of MME graduate courses toward the elective engineering BS requirements as well as toward the MS degree. Only graduate courses with formal lectures can be counted for both degrees. The students are responsible for confirming the eligibility of each course with the undergraduate advisor.

Students interested in the pathway should consult with the undergraduate advisor on their eligibility to the pathway. The students should also meet the graduate advisor to learn about the graduate program and available courses before completing the application form and submitting it to the undergraduate advisor. Applicants will be notified by the department and the University Graduate School of the decision on their applications.

Master of Science in Materials Science and Engineering

The Department of Mechanical and Materials Engineering offers both thesis and non-thesis options for the Master's Degree. A student seeking the Master's degree with or without thesis is required to pass a comprehensive oral or written examination.

All work counted for the Master's degree must be completed during the six years immediately following the date of admission.

The program provides a broad education, covering more than one field, followed by in-depth studies in areas of interest.

Admission Requirements

The following is in addition to the University's graduate admission requirements:

1. A student seeking admission into the program must have a bachelor's degree in engineering, physical sciences, computer science or mathematics from an accredited institution, or, in the case of foreign students, from an institution recognized in its own country as preparing students for further study at the graduate level.
2. An applicant must have achieved a "B" average, GPA of 3.0 in upper level undergraduate work. If a student is requesting financial assistance, Graduate Record Examination (GRE) with the following minimum scores on the individual components: verbal ≥143 and quantitative ≥151 is also required.
3. Applicants who have not satisfied the above will be evaluated for conditional admission.
4. In addition to the above criteria, international graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version, or 213 on the computer-based version of the Test of English as a Foreign Language) or 6.5 overall on the IELTS is required.
5. The GPA, GRE and TOEFL scores specified above are to be considered minimum requirements for admission. Applicants from science areas other than materials science and engineering will be expected to complete undergraduate courses selected to prepare them for graduate courses in their area of interest. Full admission to the graduate program requires the completion of these background courses with no grades below 'C' and a grade point average of 3.0 or better.

Graduation Requirements

The degree will be conferred when the following conditions have been met:

1. Recommendation of the advisor and faculty of the Department.
2. Certification provided by the Department Chair, College Dean, and University Graduate School that all degree requirements have been met.
3. Completed the three department core course requirements plus the elective courses in the student's major area.
4. Completed undergraduate course deficiencies specified at admission, if any, with no grades below 'C' and a GPA ≥ 3.0.
5. Thesis option: Successfully completed a minimum of 30 semester hours of graduate course work as specified in an approved study plan containing at least 6 hours of 6000 level courses with a GPA ≥ 3.0 (the minimum successful grade is a 'C'; not more than six semester hours transferred from another accredited graduate program that was not part of a previously awarded degree may be incorporated in the study plan) plus a minimum of six hours of masters thesis.
6. Non-thesis option: Successfully completed a minimum of 27 semester hours of graduate course work as specified in an approved study plan containing at least 9 hours of 6000 level courses and a 3 credit hour project with a GPA ≥3.0 (not more than six semester hours transferred from another accredited graduate program that was not part of a previously awarded degree may be incorporated in the study plan).
7. Thesis degree: Successful public oral defense of the thesis. Submission of the approved thesis to the Graduate School.
8. Non-thesis degree: Successful completion of a formal report and presentation.
9. Students must achieve an overall GPA ≥ 3.0 in all graduate work completed at FIU in their approved study plan.
10. Completed one semester of the Graduate Seminar course.
11. Complied with all relevant University policies and regulations.

Thesis Option

A student shall complete a minimum of 24 semester credit hours of course work, plus a minimum of 6 semester credit hours of EMA 6971, Master's Thesis, and MME Graduate Seminar.

A maximum of 6 credit hours of courses offered by other departments may be included among the 24 course hour minimum. A maximum of three credit hours of approved independent studies, EML 6908, may be counted toward the M.S. thesis degree. A maximum of six

graduate credit hours can be transferred from other accredited institutions provided that the courses have not been used for another degree and have a minimum letter grade of 'B'. Transfer courses must be approved by the advisor and Graduate Coordinator. Early in the program (before the end of the second term) the student and advisor will complete a study plan that specifies the courses that will comprise the program.

When the thesis research is completed, the student should schedule a defense with an examining committee appointed through the University Graduate School consisting of a least three graduate faculty members (at least two of whom should be from the department). The thesis, with an approval cover letter from the advisor, should be given to the examining committee for review not less than four weeks before the scheduled defense. The candidate should prepare to summarize the thesis in the manner of a technical paper using appropriate visual aids in 40 minutes or less.

Following the presentation, the candidate will answer questions related to the work from the audience and/or the committee. At the conclusion of the defense, the committee will agree on the outcome -pass or fail- and report the results to the Graduate School. Following the exam the student will implement the committee's suggestions for improving the draft document. Each committee member must sign the approval form in the final document. Hardcover bound copies of the approved thesis must be provided to the advisor and the department. Students should become familiar with the University Graduate School's regulations and deadlines available on line at **http://gradschool.fiu.edu**.

Non-Thesis Option

A student shall complete a minimum of 30 semester credit hours of graduate course work, and one semester of Graduate Seminar. Non-thesis students are required to do a three-credit project under the independent study course registration. Up to nine credit hours of graduate course work from other departments may be included among the minimum of 30 credits. A maximum of six graduate credits from other accredited graduate programs completed with a 'B' or better and not counted toward a previous degree may be included in the study plan. The advisor and the Graduate Coordinator must approve transfer courses if they are to be included in a study plan. A maximum of three credits of independent study beyond an independent project may be included in a study plan.

Non-thesis students are required to submit a formal report and presentation of the project, with the report and presentation evaluated by an examining committee that will include a minimum of three faculty members, at least two of whom should be from the department.

Areas of Specialization

Metals and Alloys
Electronic Materials
Ceramics
Polymers and Biomaterials
Nanomaterials

Course Requirements

All MSMSE degree seeking students must take the following three courses or equivalent plus one seminar as common core courses:

EMA 5106	Thermodynamics and Kinetics of Materials	3
EMA 5001	Physical Properties of Materials	3
EMA 5507C	Analytical Methods in Material Science	3
EML 6935	Graduate Seminar	3

The remainder of the courses shall be chosen from the electives with consultation of the student's advisor. Additionally, up to six hours may be taken from courses offered by other departments.

MSMSE Elective Courses

EGM 5354	Finite Element Method Applications in Mechanical Engineering	3
EGN 5367	Industrial Materials and Engineering Design	3
EGM 6355	Nonlinear Finite Element Analysis	3
EGM 6570	Fracture Mechanics	3
EGM 7574	Advanced Fracture Mechanics	3
EML 5103	Inter. Thermodynamics	3
EML 5509	Optimization Algorithms	3
EML 5562	Adv. Electronic Packaging	3
EML 6233	Fatigue and Failure Analysis	3
EMA 5xxx	Surface Science	3
EMA 5140	Introduction to Ceramic Materials	3
EMA 5295	Principles of Composite Materials	3
EMA 5200	Nanomechanics and Nanotribology	3
EMA 5015	Introduction to Nanomaterials Engineering	3
EMA 5104	Adv. Mechanical Properties of Materials	3
EMA 5016	Nanoelectronic Materials	3
EMA 5017	Nanoparticle Technology	3
EMA 5018	Nanoscale Modeling of Materials	3
EMA 5584	Biomaterials Science	3
EMA 5646	Ceramic Processing	3
EMA 5605	Fundamentals of Materials Processing	3
EMA 6126	Adv. Physical Metallurgy	3
EMA 6127C	Advanced Physical and Mechanical Metallurgy	3
EMA 6185	Advanced Mechanics of Composites	3
EMA 6516	Crystallography and X-ray Diffraction	3
EMA 6518	Transmission Electron Microscopy	3
EMA 6665	Polymer Processing and Engineering	3
EMA 6449	Electronic Properties of Ceramic Materials	3
EMA 6264	Mechanical Properties of Polymers	3
EMA 6165	Polymer Physics and Analytical Techniques	3
EEE 6399C	Electronic Properties of Material Science	3
EEL 6315	Advanced Solid State Electronics	3
EEL 6332	Thin Film Engineering	3
CHM 6511	Polymer Chemistry	3
GLY 5287C	Scanning Electron Microscopy with EDS Analysis	3
GLY 5288C	Electron Microprobe Microanalysis with EDS Analysis	3
PHZ 5405	Solid State Physics	3
PHZ 6437	Surface Physics	3
PHZ 6426	Advance Solid State Physics	3

Doctor of Philosophy in Mechanical Engineering

Admission Requirements

The requirements for admission to the doctoral program in Mechanical Engineering for applicants having a Bachelor's

degree in Mechanical Engineering from an accredited institution are the following:

1. GPA of at least 3.0/4.0 in the last 60 upper level credit hours
2. GRE of at least 151 on the quantitative component.
3. Three letters of recommendation.
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version, or 213 on the computer-based version of the Test of English as a Foreign Language) or 6.5 overall on the IELTS is required.
5. Applicants having a Master's degree in Mechanical Engineering from an accredited institution must also satisfy the above requirements for admissions to the doctoral program; however a GPA of at least 3.3/4.0 in the Master's program is also required.

Credentials of all other applicants will be examined by the Graduate Admission Committee on a case by case basis.

In addition to the departmental requirements, all students must satisfy the University's Graduate Policies and Procedures.

Identification of Research Area

Within 4 months upon acceptance into the Ph.D. program, the student having a Master's Degree has to identify an area of research of his or her interest by contacting and being accepted by a professor willing to guide the dissertation research. The student with a Bachelor's degree should identify the area of research by the end of the second semester after acceptance into Ph.D. program. If no professor is obtained, the student will be dismissed from the Ph.D. program. Contact the department for a list of the graduate faculty members and their research interests.

Course Requirements

Applicants having a Bachelor's degree in Mechanical Engineering are required to complete at least 75 credit hours, of which at least 45 hours must be coursework and 15 hours dissertation. The credit hours earned towards the Ph.D. program have the following requirements:

1. At least 21 credits at the 5000 level or higher, not to include dissertation.
2. At least 12 credits at the 6000 level or higher, not to include dissertation.
3. Breadth criteria could be satisfied by taking 3 courses in a field/area outside the student's own field.
4. Two applied/computational mathematics courses as suggested for M.S. program.
5. A minimum of 15 credits of dissertation.
6. A maximum of 6 semester hours of graduate credit earned from another accredited institution that was not used for a previous degree may be transferred as long as the courses were completed within the six years preceding admission to the program and meet university requirements.
7. EML 6908 Independent Studies counts for a maximum of 6 credit hours of coursework.
8. EML 6910 Supervised Research counts for a maximum of 6 credit hours of coursework.
9. EML 6935 Graduate Seminar (zero credits) should be registered every semester until the advancement to candidacy (D-2).

Applicants entering the Ph.D. program with a Masters degree in Mechanical Engineering are required to complete at least 45 credit hours, of which at least 24 hours must be coursework and 15 hours dissertation. The credit hours earned towards the Ph.D. program have the following requirements:

1. Breadth criteria could be satisfied by taking 3 courses in a field/area outside the student's own field.
2. A minimum of 12 credits of 6000 higher, not to include dissertation.
3. A minimum of 15 credits of dissertation.
4. Additional courses to be determined by candidate's dissertation committee.
5. EML 6908 Independent Studies counts for a maximum of 6 credit hours of coursework.
6. EML 6910 Supervised Research counts for a maximum of 6 credit hours of coursework.
7. EML 6935 Graduate Seminar (zero credits) should be registered every semester until the advancement to candidacy (D-2).

Applicants having a Master's Degree in any other Engineering discipline from an accredited institution may transfer a maximum of 24 semester hours as part of their requirements.

Elective Courses: Possible elective courses from the Mechanical Engineering department include:

Thermo/Fluid

EAS 6721	Advanced Aerodynamic Shape Design
EML 5103	Intermediate Thermodynamics
EML 5104	Classical Thermodynamics
EML 5152	Intermediate Heat Transfer
EML 5606C	Advanced Refrigeration & A/C Systems
EML 5615C	Computer Aided Design in A/C
EML 5708	Advanced Design of Thermal and Fluid Systems
EML 5709	Intermediate Fluid Mechanics
EML 6153C	Advanced Heat Transfer
EML 6154	Conduction Heat Transfer
EML 6155	Convection Heat Transfer
EML 6157	Radiation Heat Transfer
EML 6712	Advanced Fluid Mechanics
EML 6714	Advanced Gas Dynamics
EML 6725	Computational Fluid Dynamics

Mechanics/Materials

EAS 5221	Design and Analysis of Aerospace Structures
EGM 5346	Computational Engineering Analysis
EGM 5354	Finite Element Method Applications in Mechanical Engineering
EGM 6570	Fracture Mechanics
EMA 5295	Principles of Composite Materials
EMA 5106	Thermodynamics and Kinetics of Materials
EMA 5001	Physical Properties of Materials
EMA 5507C	Analytical Techniques of Materials Science
EMA 5200	Nanomechanics and Nanotribology
EMA 5935	Adv Topics in Materials Engineering
EMA 6127C	Advanced Physical & Mechanical Metallurgy
EMA 6165C	Polymer Physics & Analytical

	Techniques
EML 5505	Smart Machine Design and Development
EML 5509	Optimization Algorithms
EML 5125	Classical Dynamics
EML 5385	Identification Techniques of Mechanical Systems
EML 5562	Advanced Electronic Packaging
EML 6223	Advanced Mechanical Vibration Analysis
EML 6233	Fatigue and Failure Analysis
EML 6805	Advanced Design of Robot

Design and Manufacturing

EAS 5221	Design and Analysis of Aerospace Structures
EGM 5615	Synthesis of Engineering Mechanics
EGM 6570	Fracture Mechanics
EML 5385	Identification Techniques of Mechanical Systems
EML 5505	Smart Machine Design and Development
EML 5082	Advanced Nondestructive Testing and Mechanical Health (MME)
EML 5509	Optimization Algorithms
EML 5519	Fault-Tolerant System Design
EML 5530	Intermediate CAD/CAE
EML 5562	Advanced Electronic Packaging
EML 5808	Control Technology for Robotic Systems
EML 5825	Sensors and Applied Machine Intelligence
EML 6223	Advanced Mechanical Vibration Analysis
EML 6532	Advanced CAD/CAE
EML 6805	Advanced Design of Robots

Residency Requirements

The program will provide student access to a wide range of support facilities including research library, cultural events, and other occasions for intellectual growth associated with campus life, significant faculty/student interaction, opportunities for student exposure to and engagement with cognate disciplines and research scholars working in those disciplines, and significant peer interaction among graduate students. Students will be provided with the opportunity for a mentoring apprentice relationship with faculty and students as well as adequate time for in-depth evaluation of the student. To satisfy the residency requirement for the Ph.D. degree, the candidate must complete a minimum of 18 credit hours within a period of 12 months at the University.

Ph.D. Course Breadth Requirements

Breadth criteria could be satisfied by taking 3 courses in a field/area outside student's own field. Examinations and Proposal and Final Defense Student must demonstrate graduate knowledge acquisition in four incremental stages in order to be awarded a Ph.D. in Mechanical Engineering.

Stages of Progression Towards Degree

A student must demonstrate acquisition of graduate knowledge in five incremental stages in order to be awarded a Ph.D. in Mechanical Engineering:

I. Formation of the Dissertation Committee

Students entering the program with a master's degree must select a dissertation advisor during their first semester of study. These students must also select a dissertation committee and submit the D-1 form during their first semester. Students entering the program with a bachelor's degree must select a dissertation advisor and submit the D-1 form by the end of their second semester.

II. Comprehensive Exam (CE)

General written exam to test masters level knowledge.

A student who is admitted to the Ph.D. program with a bachelors degree must take the CE no later than the beginning of the 4th major semester after admission, and a student who enters the Ph.D. program with a masters degree must take and pass the CE no later than the beginning of the 2nd major semester after admission. Students may petition for exceptions from the departmental graduate committee by one major semester at a time. A student who fails the CE may retake the exam once only.

III. Admission to Candidacy

Candidacy status indicates that a doctoral student is ready to commence working on the dissertation. A student is admitted to candidacy upon successfully completing all required course work and passing the Comprehensive Examination. After completion of coursework credits and the Comprehensive Exam, form D-2 must be turned in.

IV. Proposal Defense (PD)

The dissertation proposal will be presented by the student in the form of a Graduate Seminar in which he/she must submit a proposal for his/her dissertation.

Students must declare their proposal subject within 6 months after taking and passing the Comprehensive Exam. After completion of proposal defense, form D-3 must be turned in.

V. Final Defense (FD)

There will be a public defense at a graduate seminar. The defense can be failed no more than once.

The final defense should be presented no later than the 4th year after the master's degree and no later than the 6th year after the bachelor's degree.

Following the successful defense of the dissertation, as determined by a majority vote of the student's examining committee, the dissertation must be forwarded to the Dean of the College of Engineering and Computing and the Dean of the University Graduate School for their approval.

All dissertations submitted in fulfillment of the requirements for graduate degrees must conform to University guidelines (see "Regulations for Thesis and Dissertation Preparation Manual"). One final and approved copy of the dissertation must be delivered to the Chairperson of the Department of Mechanical Engineering and one to the advisor, in addition to the copies required by the University Graduate School.

Financial Aid

Consult the Department for information on research and teaching assistantships available for doctoral students.

Doctor of Philosophy in Materials Science and Engineering

The Ph.D. in Materials Science and Engineering will prepare graduates for industrial and/or academic research as well as for higher level jobs in materials related industry in one (or more) of five areas of specialization: 1) electronic materials, 2) nanotechnology, 3) metals and alloys, 4) ceramics, and 5) polymer science and biomaterials.

Admission Requirements

The requirements for admission to the doctoral program in Materials Science and Engineering for applicants having a Bachelor's degree in Materials Science and Engineering or in a related field, e.g. Mechanical Engineering, Electrical Engineering, Physics, Chemistry, and Geophysics from an accredited institution are the following:

1. GPA of at least 3.0/4.0 in the last 60 credit hours attempted.
2. GRE of at least 151 on the quantitative component.
3. Three letters of recommendation.
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version, or 213 on the computer-based version of the Test of English as a Foreign Language) or 6.5 overall on the IELTS is required.
5. Applicants having a Master's degree in Materials Science and Engineering from an accredited institution must also satisfy the above requirements for admissions to the doctoral program; however, a GPA of at least 3.3/4.0 in the Master's program is also required.

Credentials of all other applicants will be examined by the Graduate Admission Committee on a case-by-case basis. In addition to the departmental requirements, all students must satisfy the University's Graduate Policies and Procedures.

Course Requirements

Applicants having a Bachelor's Degree are required to complete at least 75 credit hours, out of which at least 45 hours must be coursework and 15 hours dissertation. The credit hours earned towards the Ph.D. program have the following requirements:

- At least 21 credits at the 5000 level or higher, not to include dissertation.
- At least 12 credits at the 6000 level or higher, not to include dissertation.
- EML 6908 Independent Studies counts for a maximum of 6 credit hours of coursework.
- EML 6910 Supervised Research counts for a maximum of 6 credit hours of coursework.
- EML 6935 Graduate Seminar (zero credits) should be registered every semester until the advancement to candidacy (D-2).

Applicants having a Master's Degree in Materials Science, Materials Engineering, and Metallurgical Engineering are required to complete at least 45 credit hours, out of which at least 24 hours must be coursework and 15 hours dissertation. The credit hours earned towards the Ph.D. program have the following requirements:

- At least 12 credits at the 6000 level or higher, not to include dissertation.
- EML 6908 Independent Studies counts for a maximum of 6 credit hours of coursework.
- EML 6910 Supervised Research counts for a maximum of 6 credit hours of coursework.
- EML 6935 Graduate Seminar (zero credits) should be registered every semester until the advancement to candidacy (D-2).

Applicants having a Master's Degree in any other Engineering discipline from an accredited institution may transfer a maximum of 24 semester hours from their previous course of study.

Materials Science and Engineering Courses

Fundamentals

EMA 5001	Physical Properties of Materials (Required core course for MSMSE)
EMA 5106	Thermodynamics and Kinetics of Materials (Required core course for MSMSE)
EMA 5507C	Analytical Techniques of Materials Science (Required core course for MSMSE)

These 3 or equivalent courses should be taken by all PhD students in Materials Engineering

Elective Courses: Possible elective courses from the Materials Engineering department include:

Metals and Alloys

EMA 5104	Advanced Mechanical Properties of Materials
EMA 5295	Principle of Composite Materials
EMA 6126	Advanced Physical Metallurgy
EMA 6127C	Advanced Physical and Mechanical Metallurgy
EMA 6185	Advanced Mechanics of Composites
EGM 6570	Fracture Mechanics
EGM 7574	Advanced Fracture Mechanics
EML 6233	Fatigue and Fracture Analysis

Electronic Materials

EEL 6315	Advanced Solid State Electronics
EEL 6399	Electronic Properties of Materials
EMA 5016	Nanoelectronic Materials
PHZ 6426	Advance Solid State Physics
PHZ 5405	Solid State Physics

Ceramics

EMA 5140	Introduction to Ceramic Materials
EMA 6646	Ceramic Processing
EMA 6449	Electronic Properties of Ceramic Materials

Polymers

CHM 6511	Polymer Chemistry
EMA 5584	Biomaterials Science
EMA 6165C	Polymer Physics and Analytical Techniques
EMA 6264	Mechanical Properties of Polymers
EMA 6665	Polymer Processing and Engineering

Analytical Techniques in Materials Science

EMA 5XXX	Surface Science
EMA 6516	Crystallography and X-ray Diffraction
EMA 6518	Transmission Electron Microscopy

GLY 5287C	Scanning Electron Microscopy with EDS Analysis
GLY 5288C	Electron Microprobe Microanalysis with EDS Analysis
PHZ 6437	Surface Physics

Nano Structured Materials

EEL 6315	Advanced Solid State Electronics
EEL 6332	Thin Film Engineering
EMA 5015	Introduction to Nanomaterials
EMA 5016	Nanoelectronic Materials
EMA 5017	Nanoparticle Technology
EMA 5018	Nanoscale Modeling of Materials
EMA 5200	Nanomechanics and Nanotribology

Other Materials and Mechanical Courses

EGM 5354	Finite Element Method Applications in Mechanical Engineering
EGM 6355	Nonlinear Finite Element Analysis
EGN 5367	Industrial Materials and Engineering Design
EMA 5605	Fundamentals of Materials Processing
EML 5103	Inter. Thermodynamics
EML 5562	Adv. Electronic Packaging

It is important that there will be three 6000 level courses developed for each specialization.

Stages of Progression Towards Degree

A student must demonstrate acquisition of graduate knowledge in five incremental stages in order to be awarded a Ph.D. in Materials Science Engineering:

I. Formation of the Dissertation Committee

Students entering the program with a master's degree must select a dissertation advisor during their first semester of study. These students must also select a dissertation committee and submit the D-1 form during their first semester. Students entering the program with a bachelor's degree must select a dissertation advisor and submit the D-1 form by the end of their second semester

II. Comprehensive Exam (CE)

The Comprehensive Examination is the general written and oral exam to test master's level knowledge. A student who is admitted to the Ph.D. program with a bachelor's degree must take the CE no later than the second term of the 2nd year after admission, and a student who enters the Ph.D. program with a master's degree must take and pass the CE no later than the 2nd term after admission. Students may petition for exceptions from the graduate student committee. A student who fails the CE may retake the CE exam only once.

III. Admission to Candidacy

Candidacy status indicates that a doctoral student is ready to commence working on the dissertation. A student is admitted to candidacy upon successfully completing all required course work and passing the Comprehensive Examination. After completion of coursework credits and the Comprehensive Exam, form D-2 must be turned in.

IV. Proposal Defense (PD)

The dissertation proposal will be presented by the student in the form of a Graduate Seminar, in which he/she must submit a proposal for his/her dissertation. Students must declare their proposal subject within 6 months after taking the Comprehensive Examination. After completion of proposal defense, form D-3 must be turned in.

V. Final Defense (FD)

There will be a public defense at a graduate seminar. The defense can be failed no more than once. The final defense should be presented no later than the 4th year after the master's degree and no later than the 6th year after the bachelor's degree.

Following the successful defense of the dissertation, as determined by a majority vote of the student's examining committee, the dissertation must be forwarded to the Dean of the College of Engineering and Computing and the Dean of the University Graduate School for their approval.

All dissertations submitted in fulfillment of the requirements of graduate degrees must confirm to University guidelines (see "Regulations for Thesis and Dissertation Preparation Manual"). One final and approved copy of the dissertation must be delivered to the Chairperson of the Department of Mechanical and Materials Engineering in addition to the copies required by the University Graduate School.

Course Descriptions

Definition of Prefixes

EAS–Engineering: Aerospace; EGM–Engineering: Mechanics; EGN–Engineering: General; EMA–Engineering: Materials; EML–Engineering: Mechanical

EAS 5124 Aerodynamics and Flight Mechanics (3). Fundamentals of aerodynamics, definition of aerodynamic shapes, analysis of aerodynamic forces, airplane performance, and flight stability and control. Prerequisites: EGN 3321, EML 3126, EGN 3343.

EAS 5221 Design and Analysis of Aerospace Structures (3). Fundamental principles of aircraft design and analysis. Advanced computational methods used for analysis of aerospace structures. Prerequisites: EML 3032, MAP 2302 or EGM 3311, EMA 3702, EML 4140.

EAS 6185 Turbulence (3). Fundamentals of turbulent flow, solutions for bounded and free turbulent flows, dynamics of turbulence, statistical description of turbulence, spectral dynamics, and stability.

EAS 6212 Aeroelasticity (3). Understanding and analysis of aeroelastic phenomena in fixed-wing aircraft, aero-structural dynamics, static aeroelasticity, dynamic aeroelasticity, and dynamic response and transient stresses. Prerequisite: Permission of the instructor.

EAS 6721 Advanced Aerodynamic Shape Design (3). Analytical formulations and numerical algorithms for inverse shape design and optimized shape design of 2D and 3D aerodynamic and aerothermal configurations over a range of flow regimes. Prerequisites: Permission of the instructor. Good programming skills. Basic courses in fluid mechanics.

EGM 5315 Intermediate Analysis of Mechanical Systems (3). First course at the graduate level in the analysis of mechanical systems. Modeling of the system and analytical and numerical methods of solution of the governing equations will be studied. Fluid and thermodynamic systems will be emphasized in this course. Prerequisites: EGM 3311 or permission of the instructor.

EGM 5346 Computational Engineering Analysis (3). Application of computational methods to mechanical engineering problems of translational, rotational, control, thermal and fluid systems employing linear/nonlinear system elements. Prerequisites: EML 2032, MAP 2302, and EML 3222, or permission of the instructor.

EGM 5354 Finite Element Method Applications in Mechanical Engineering (3). Utilize the finite element method to solve problems in heat transfer, fluid dynamics, diffusion, acoustics, vibration, and electromagnetism, as well as the coupled interaction of these phenomena. Prerequisites: EML 2032, EMA 3702, and EML 4140.

EGM 5371 Meshfree and Alternative Methods in Mechanical Engineering (3). Course covers the alternative methods in engineering analysis with a special focus on meshfree method with distance fields in mechanical engineering. Prerequisites: EML 3036, (MAP 2302 or EGM 3311), EGM 5354, or permission of the instructor.

EGM 5615 Synthesis of Engineering Mechanics (3). Unified approach to the analysis of continuous media using constitutive equations, mechanical behavior of materials and their usefulness in handling failure theories and composite materials. Prerequisites: MAP 2302 or EGM 3311, and EMA 3702.

EGM 5935 Review of Topics in Mechanical Engineering (4). To prepare qualified candidates to take the Mechanical Engineering PE written examination. Reviewed courses include Thermodynamics, Fluid Mechanics, Mechanics of Materials, Mechanical Design and Heat Transfer.

EGM 6355 Nonlinear Finite Element Analysis (3). Nonlinear finite element analysis. Geometric and material nonlinearities will be considered in the formulation of different finite elements. Prerequisite: Permission of the instructor.

EGM 6422 Advanced Computational Engineering Analysis (3). Modeling of vibrational and dynamic systems including solution of governing equations by analytical and numerical techniques. Prerequisites: EGM 5346 or permission of the instructor.

EGM 6455 Impact Dynamics (3). Mechanical impact, point-mass collisions, vibratory impact, stress waves in solids, elastic-plastic stress waves, low velocity impact, penetration and perforation applications. Prerequisites: EGN 3321 and EMA 3702.

EGM 6570 Fracture Mechanics (3). Griffith's and Irwin's fracture criteria; stress intensity factors evaluation; crack-tip plastic zone; fracture toughness measurement; crack initiation; fatigue crack growth; stress corrosion cracking. Prerequisite: EGM 5615.

EGM 6654 Advanced Theory of Elasticity (3). Modern methods of stress and strain analysis including two-dimensional problems of stress concentration, contact adhesion, friction, thermal stresses, and dynamic waves. Prerequisites: EGM 5615, EGM 5315, or permission of the instructor.

EGM 7574 Advanced Fracture Mechanics (3). Modern fracture mechanics including invariant integrals, nano-scale fracture, environmental fracture, penetration mechanics, failure waves, erosion, and fracture by electron and laser beams. Prerequisites: EGM 6570, EGM 6422.

EGM 7676 Classic Topics of Nonlinear Mechanics (3). Classic topics on nonlinear mechanics, such as Theory of Plasticity of Solids, and the Theory of Jets and Cavities of Fluids. Prerequisites: EGM 5315, EGM 6422, EGM 5615, EML 5709.

EGN 5013C Nanoscale Fabrication and Synthesis (3). This course covers the advanced micro/nanofabrication tools and techniques. It includes lab sessions where the students design, fabricate and test selected micro/nano-scale devices.

EGN 5367 Industrial Materials and Engineering Design (3). Industrial materials, material selection, and engineering design process, including synthesis, analysis, optimization, and evaluation.

EGN 6900 Methods and Practices in Engineering and Computing Education Research (3). Foundational course in research methods and practices of engineering and computing education researchers, focusing on research design decisions, research quality, ethical implications, and publishing.

EGN 6907 Independent Study (1-10). A variable credit independent study course for PhD students to work on topics where standard courses cannot be opened. Topics must be related to engineering or computing education.

EGN 6920 Cooperative Education in Engineering (1-3). A variable credit cooperative education in engineering courses for current PhD students who have a position within an organization focused on their area of study. Topic must be eng or computing related.

EGN 6935 Seminar on STEM Education Research (0). Weekly interactive and engaging presentations featuring faculty, students and guest speakers sharing research topics in science, technology, engineering and mathematics (STEM) topics.

EGN 6939 Advanced Special Topics (1-3). An advanced special topics course for PhD students to pursue and study areas in engineering or computing education at an advanced level that otherwise would not be offered.

EGN 6942 Mentored Teaching Practicum in Engineering and Computing Education (1). Structured application of educational theories and pedagogy through classroom teaching experiences and weekly learning community meetings. Requires students find a faculty teaching mentor.

EGN 6957 Professional Development in Engineering and Computing Education (2). An exploration of professional development tools and techniques within engineering and computing education research and practice.

EGN 7918 Graduate Research (1-25). Doctoral research prior to candidacy. Repeatable. Prerequisite: Permission of the department.

EMA 5001 Physical Properties of Materials (3). The physical properties of materials, including the influence of structure on properties, thermodynamics of solids and phase transformations and kinetics on microstructural development. Prerequisite: EGM 4521C.

EMA 5015 Introduction to Nanomaterials Engineering (3). The science and engineering of nanomaterials, the fabrication, behavior, and characterization of the nano-size particles and materials. Prerequisites: EGN 3365, EGM 3311.

EMA 5016 Nanoelectronic Materials (3). Course provides an understanding of nanotechnology based on materials engineering. Topics include energy bands in semiconductors, MOSFET scaling, materials processing and other applications. Prerequisite: EGN 3365.

EMA 5017 Nanoparticle Technology (3). An interdisciplinary overview of the nanoparticle engineering. Synthesis of nanoparticles, nanoparticle growth and transport, characterization methods, and applications. Prerequisites: EGN 3365 or permission of the instructor.

EMA 5018 Nanoscale Modeling of Materials (3). Overview of computational nanotechnology. Modeling, simulation and design of nanomaterials. Energy minimization, molecular dynamics and advanced multiscale numerical techniques. Prerequisites: EGN 3365 or permission of the instructor.

EMA 5104 Advanced Mechanical Properties of Materials (3). Advanced treatment of the mechanical behavior of solids; examines crystal plasticity, dislocations, point defects and grain boundaries, creep and fatigue behavior, fracture. Prerequisite: EGN 3365.

EMA 5106 Thermodynamics and Kinetics of Materials (3). Laws of thermodynamics. Entropy and free energy. Diffusion mechanisms. Transition state theory and field effects. Phase diagrams. Nucleation in condensed phases. Crystal growth. Prerequisite: EGN 3343 Thermodynamics I.

EMA 5140 Introduction to Ceramic Materials (3). Synthesis of ceramics, inorganic glasses and their microstructure as related to physical properties. Prerequisites: EGN 3365 or instructor's permission.

EMA 5200 Nanomechanics and Nanotribology (3). Mechanical and tribological properties at nano-scale length, fundamentals of nanoindentation and nanoDMA, application of nanoindentation for hard, soft, natural and biological materials. Prerequisites: EGN 3365 or permission of the instructor.

EMA 5295 Principles of Composite Materials (3). The mechanical behavior of composite materials used in the automotive, aircraft and sporting goods industries; material and laminar properties; design of composites; failure analysis; and environmental effects. Prerequisites: EGM 5615 or permission of the instructor.

EMA 5305 Electrochemical Engineering (3). Introduction to graduate students the fundamental principles of electrochemistry and its applications in different engineering systems for energy, chemical, biomedical, and electronics industries. Prerequisite: Permission of the instructor.

EMA 5326 Corrosion Science and Engineering (3). Electrochemical principles of corrosion, methods of corrosion control and measurement. Prerequisites: EGN 3365 or permission of the instructor.

EMA 5507C Analytical Techniques of Materials Science (3). Fundamental theories and techniques of the analytical methods for materials including: X-ray diffraction, scanning and transmission electron microscopy, thermal and surface analysis, and vacuum systems. Prerequisite: EGN 3365.

EMA 5605 Fundamentals of Materials Processing (3). Extraction of materials from the minerals using pyro, hydro and electro techniques. Fundamentals of solidification process. Prerequisites: MSE 4521 or permission of the instructor.

EMA 5646 Ceramic Processing (3). Introduction to the science of ceramic processing, with emphasis on theoretical fundamentals and current state-of-the-art processing. Prerequisite: EMA 5140.

EMA 5935 Advanced Topics in Materials Engineering (3). Topics include thermodynamics of solids, principles of physical metallurgy, including phase transformation and diffusion and analytical methods in materials engineering. Prerequisites: EGN 3365 and EGM 3343.

EMA 6113 Advanced Materials Thermodynamics (3). Advanced thermodynamic study of materials using thermochemical and computational methods. Prerequisite: EMA 5106.

EMA 6126 Advanced Physical Metallurgy (3). Energetics of phase transformation and spinodal decomposition, homogeneous and heterogeneous nucleation in solid state reactions, and martensite transformations. Prerequisites: EMA 4121 or permission of the instructor.

EMA 6127C Advanced Physical and Mechanical Metallurgy (3). Advanced topics in physical and mechanical metallurgy including statics and dynamics of dislocations, plastic deformation of fracture, creep solidification, phase transformation, and heat treatment. Prerequisites: EGN 3365 or permission of the instructor.

EMA 6165C Polymer Physics and Analytical Techniques (3). Topics in polymers and the analytical techniques, including: synthesis, characterization, state of polymers, plasma processes, X-ray diffraction, scanning, and transmission electron microscopy. Prerequisites: EGN 3365 or permission of the instructor.

EMA 6185 Advanced Mechanics of Composite Materials (3). Study of micromechanics and mechanical processes in microscale, including fracture, reinforcement and delamination. Prerequisite: EMA 5295.

EMA 6264 Mechanical Properties of Polymers (3). Advanced concepts of solid mechanics and mechanical behavior of polymers; stress-strain relationships, stress transformation, beam bending, elasticity, plasticity and fracture. Prerequisites: EMA 6165C or permission of instructor.

EMA 6449 Electronic Properties of Ceramic Materials (3). The defect solid state and its relation to electrical properties of ceramics. Solid electrolytes. Theory of electron transport in metallic, semiconducting and insulating ceramics. Prerequisite: EMA 5140.

EMA 6516 Crystallography and X-ray Diffraction (3). Principles of crystallography and the use of x-ray diffraction and Raman Spectroscopy to characterize crystalline solids. Prerequisite: Instructor's permission.

EMA 6518 Transmission Electron Microscopy (3). Kinematic and dynamic theories of diffraction contrast and electron interaction in materials. Diffraction analysis for structural and compositional determination. Specimen preparation techniques. Prerequisite: EMA 5507.

EMA 6665 Polymer Processing and Engineering (3). Standard and advanced processing methods, characterization of morphology, and reaction processing. An industry-based case study analysis integrates heat and mass transport, and fluid flow during materials processing; and the economics of materials processing and recycling. Prerequisite: Permission of instructor.

EMC 5415 Digital Control of Mechanical Systems (3). Discrete modeling of mechanical systems. Digital feedback systems. Computer interface of mechanical systems. Controller design with emphasis on hydraulic, pneumatic and electromechanical devices. Prerequisite: EML 4804.

EML 5047 Applied Machine Learning for Mechanical Engineers (3). Basics of Al and machine learning, regression, classification, feature selection, clustering, reinforcement learning, applications in: structural analysis and heat transfer, robotics. Prerequisite: Permission by instructor.

EML 5082 Advanced Nondestructive Testing and Mechanical Health Monitoring (3). Theory and application of Nondestructive Testing (NDT) and Mechanical Health Monitoring (MHM) techniques will be discussed. Automated interpretation of signals and advanced methods will be presented. Prerequisite: Permission of the instructor.

EML 5103 Intermediate Thermodynamics (3). Thermodynamic approach to processes and engines; alternative formulations and Legendre transformations; Maxwell relations, first and second order phase transitions. Prerequisite: EML 3101.

EML 5104 Classical Thermodynamics (3). Mathematical analysis of the laws of classical reversible and irreversible thermodynamics. Applications to mechanical, electro-magnetic, and chemical systems, under ideal and real conditions. Prerequisite: EML 3101.

EML 5125 Classical Dynamics (3). Kinematics of rigid body motion, Eulerian angles, Lagrangian equations of motion, inertia tensor, momental ellipsoid. Rigid-body equations of motion, Euler's equations, force-free motion, polhade and herpolhade, theory of tops and gyroscopes. Variational principles. Hamiltonian equations of motion. Poinsote representation. Prerequisites: MAP 2302 or EGM 3311, and EGN 3321.

EML 5152 Intermediate Heat Transfer (3). Multi-dimensional heat conduction under steady and transient conditions. Heat, mass and momentum transfer. Radiation heat transfer. Gas radiation. Free and forced convection. Prerequisite: EML 4140.

EML 5385 Identification Techniques of Mechanical Systems (3). FFT, time series analysis and neural networks are introduced. Applications of these techniques are discussed for identification of mechanical structures, and machine diagnostics. Prerequisite: EML 4804.

EML 5290 Fundamentals of Microfabrication (3). Science of miniaturization will be introduced. Materials choices, scaling laws, different options to make very small machines and practical applications will be emphasized. Progress related to state-of-the-art BioMicroElectro Mechanical Systems will be presented.

EML 5412 Combustion Processes (3). Introduction to combustion processes, thermochemistry, chemical kinetics, laminar flame propagation, detonations and explosions, flammability and ignition, applications in IC engines and gas turbines. Prerequisites: EML 3101 and EML 4140.

EML 5505 Smart Machine Design and Development (3). Design of independently operating smart electro-mechanical systems (most consumer products) which monitor their environment, give decisions, and create motion. Prerequisites: EML 4804 or permission of the instructor.

EML 5509 Optimization Algorithms (3). Multi-disciplinary numerical analysis combined with single objective and multi-objective unconstrained and constrained optimization and sensitivity analysis techniques to optimize the design. Prerequisites: Permission of the instructor.

EML 5519 Fault-Tolerant System Design (3). Fault tolerance in mechanical, manufacturing, computer, and aerospace systems. Basic stages of fault isolation. Fault tolerance measures, architectures, and mechanical system design methodologies. Prerequisite: EML 3500.

EML 5530 Intermediate CAD/CAE (3). Computer aided geometrical modeling of spatial mechanical systems. Design criteria and analytical approaches for planer kinematic systems will be emphasized. Prerequisites: EML 4535 or permission of the instructor.

EML 5555 Special Projects in Mechanical Engineering Design and Business Development (3). Mechanical engineering design project that encompasses conceptual and structural design, analysis, and optimization complemented by a study to develop a business venture to produce the designed product. Prerequisites: EML 4501 or equivalent, QMB 6357, and MAN 6209.

EML 5559 Design, Production and Marketing (3). Student teams will evaluate the market and identify promising mechatronics systems. They will simulate design, development, and commercialization of the products in realistic environment.

EML 5562 Advanced Electronic Packaging (3). Advanced topics in electronic packaging. Evaluation of first through fourth level assembly. Applications of computer layout design, thermal management and mechanical stability analysis. Prerequisites: EML 4561 or permission of the instructor.

EML 5599 Heat Pipe Theory and Applications (3). Heat pipe theory, heat pipe design and its applications, especially in the areas of energy conversion and conservation. Prerequisites: EML 3101 and EML 4140.

EML 5606C Advanced Refrigeration and Air Conditioning Systems (3). The various methods used in the thermal design and analysis of both refrigeration and heat pump systems are investigated. Various methods of producing heating and cooling are examined including vapor compression, absorption, air cycle, steam jet, thermoelectric, solar heating and cooling systems. Prerequisite: EML 4601.

EML 5615C Computer/Aided Design in Air Conditioning (3). Software will be used to demonstrate heating, ventilating and air conditioning design concepts and sizing equipment and determining performance parameters. Project design is required. Prerequisites: EML 2032 and EML 4601.

EML 5708 Advanced Design of Thermal and Fluid Systems (3). Advanced design of pumps, compressors, heat exchangers, HVAC systems and thermal and fluid control devices. Prerequisite: EML 4706.

EML 5709 Intermediate Fluid Mechanics (3). Basic concepts and scope of fluid dynamics; non-inertial reference frames. Two-dimensional potential theory. Applications to airfoils. The Navier-Stokes equations; selected exact and approximate solutions. Prerequisite: EML 3126.

EML 5808 Control Technology for Robotic Systems (3). State-space equations of robots. Controller design based on linearization, nonlinearity cancellation, optimal control, adaptive control and other methods. Stability analysis, performance comparison. Prerequisites: EGN 3321, EML 4804, or equivalent.

EML 5825 Sensors and Applied Machine Intelligence (3). Sensors, signal analysis techniques, and error compensation methods will be introduced for machine intelligence. Production Machine Modeling and Design. Prerequisites: EML 4804, EML 4503, or equivalent, or permission of the instructor.

EML 5927 Professional Development and Leadership for Mechanical Engineers (3). Consequences of engineering and concepts for personal career management, decision making leadership, and entrepreneuring that enhance the effectiveness of professional engineering practice. Prerequisite: Senior standing in engineering.

EML 6148 Microscale Transport Phenomena (3). Transport phenomena in small length and time scales are studied. Deviations from classical behavior are addressed. Applications include heat transfer in electronics, MEMS, and laser machining. Prerequisites: EML 5152, EML 5709, or permission of the instructor.

EML 6153 Advanced Heat Transfer (3). Review of analogies among heat, mass and momentum transfer. Free and forced convection from theoretical and experimental viewpoint for laminar and turbulent flows. Film and dropwise condensation. Prerequisite: EML 5152.

EML 6154 Conduction Heat Transfer (3). Heat transfer by conduction for steady and unsteady one and multidimensional systems with and without heat generation. Temperature distribution analysis using analytical and computational methods. Prerequisite: EML 4140.

EML 6155 Convection Heat Transfer (3). Development and solution of governing equations of parallel flows, boundary layer flows, instability and turbulence with convective heat transfer. Prerequisite: EML 4140.

EML 6157 Radiation Heat Transfer (3). Heat transfer by radiation for steady and unsteady one and multi-dimensional systems. Radiation parameters effecting different systems will be studied, analytically or numerically. Prerequisite: EML 4140.

EML 6223 Advanced Mechanical Vibration Analysis (3). Multi degree-of-freedom systems, discrete and continuous systems; vibration control and introduction to vibration of non-linear systems. Prerequisites: EML 3222 or EML 4220.

EML 6233 Fatigue and Failure Analysis (3). A study of the theoretical and practical aspects of material failure including failure modes, life prediction, corrosion with the goal of designing a safe product. Prerequisite: EGM 5615.

EML 6518 Advanced Modeling in Mechanical Engineering (3). Basic principles of mathematical modeling following a variety of problems in mechanical engineering. Prerequisites: EGM 6422 and EGM 5615.

EML 6532 Advanced Computer-Aided Design/ Computer-Aided Engineering (3). Advanced CAD techniques in design of mechanical systems. Architecture of CAD systems including database applications. Advanced computational geometry student programming. Prerequisite: EML 5530.

EML 6574 Advanced Mechanical Design Optimization (3). Advanced topics in numerical optimization, sensitivity analysis, approximation techniques and shape optimization. Prerequisite: Consent of the instructor.

EML 6712 Advanced Fluid Mechanics I (3). Turbulent flows with emphasis on engineering methods. Momentum, energy, and species transfer. Production, dissipation, and scaling laws for turbulence. Mixing length, effective viscosity. Prerequisite: EML 5709.

EML 6714 Advanced Gas Dynamics (3). Thermodynamic and fluid mechanics principles applied to high speed flows. Flows to be studied include flows with friction and heat loss/addition. Prerequisite: EML 4711.

EML 6725 Computational Fluid Dynamics (3). Basic computational methods for incompressible and compressible flows. Methods for solving the stream function equation. Boundary conditions for vorticity and stream function equations. Finite difference and finite element techniques. Prerequisite: Consent of the instructor.

EML 6747 Mechanics of Fluid Flow in Porous Materials (3). The mathematical theory of fluid penetration through porous materials and lungs, heat transfer, fluidized beds, non-stationary flows, and double continua. Prerequisite: EML 5709.

EML 6750 Multiphase Suspension Flow (3). Definition of multiphase flow, experimental observation, mathematical modeling of multiphase systems, measurement techniques, suspension boundary layer flow, and fluidization techniques. Prerequisite: Permission of the instructor.

EML 6805 Advanced Design of Robots (3). Kinematic analysis of mechanisms and robot arms, geometric configurations, analytical and numerical methods in kinematics. Prerequisites: EML 3222, EML 4806, and EML 4501.

EML 6908 Independent Studies (1-3). Individual research studies available for qualified graduate students. The work is to be performed under the supervision of an advisor. A report is to be submitted. Students may register

for 1 to 3 credits per semester. Prerequisite: Advisor's permission.

EML 6910 Supervised Research (1-6). Graduate level research carried out under the supervision of a faculty member.

EML 6935 Graduate Seminar (0). Different problems in Mechanical Engineering and results of ongoing research will be presented and discussed by invited experts. The seminar will expose the students to advances in existing and emerging areas of research. Prerequisite: Graduate standing.

EML 6946 Mechanical and Materials Engineering Internship (1-3). Graduate students gain work experience through supervised internship in industry. The student prepares an internship program proposal, and the work performed is documented in a report and presented. Prerequisite: Permission of the student's thesis advisor.

EML 6971 Masters Thesis (1-6). Master's thesis in any advanced topic, a report is to be submitted and an oral presentation is to be made. Students may register for one to six credits per semester. Total of six credits to be earned for the Master's Degree. Prerequisite: Advisor's permission.

EML 7837 Boundary Value Problems in Engineering (3). Analytical methods and skills for closed-form solutions of boundary value problem of mathematical physics and mechanics for engineering applications based on Riemann theory. Prerequisites: MAP 5407, MAA 4402, or permission of the instructor.

EML 7939 Ph.D. Seminar (0). Various subjects in Mechanical Engineering and results of ongoing research will be presented and discussed by invited experts. The seminar will expose the students to advances in existing and emerging areas of research. Prerequisite: Ph.D. students only.

EML 7979 Ph.D. Dissertation (3-12). Doctoral research leading to Ph.D. Mechanical Engineering dissertation. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

SUCCEED – School of Universal Computing, Construction, and Engineering Education

Monica Cardella, *Director of the School of Computing, Construction and Engineering Education (SUCCEED), Professor*
Bruk Berhane, *Assistant Professor*
Trina Fletcher, *Assistant Professor*
Stephanie Lunn, *Assistant Professor*
Stephen Secules, *Assistant Professor*
Alexandra Coso Strong, *Assistant Professor*
Mark Allen Weiss, *Distinguished University Professor Professor of Computer Science, Associate Dean, and Founding Director Emeritus*

SUCCEED was formed in 2018, through a collaboration between the College of Engineering and Computing and the STEM Transformation Institute, as the first engineering and computing education department at a minority-serving institution. The school was created in alignment with the university's vision to be a "leading urban public research university focused on student learning, innovation, and collaboration." As such, SUCCEED aims to be the premier department in the U.S. with expertise in developing engineering and computing leaders who reflect the growing diversity of the 21st century.

Faculty within the school, along with students and staff, seek to connect research and innovation with student learning through collaboration with other members of the college and FIU as a whole. In particular, SUCCEED faculty research and promote evidence-based approaches that broaden participation and improve educational outcomes. Through these efforts, the faculty impact current and future engineering and computer science students at FIU and beyond.

Doctor of Philosophy in Engineering and Computing Education

Admission Requirements

For admission into the program, students will:

1. Have a bachelor degree in Engineering or Computing or a closely related field.
2. Have either an upper division GPA of at least 3.0 in the bachelor's degree, calculated based on the last 60 credits attempted, or GPA of at least 3.0 from a Master's program in a closely related field
3. Complete a Graduate Record Exam (GRE) within the prior five years.
4. Have three letters of recommendation, a copy of the transcript, and a copy of the university graduate application to the Graduate Program Director in accordance with University Graduate School deadlines.
5. Have received approval of the departmental graduate committee.
6. International students whose native language is not English must obtain a score of 80 or higher on the TOEFL iBT (this corresponds to 550 on the old TOEFL test), 6.3 overall on the 1ELTS, or equivalent test as approved by the University Graduate School. The University Graduate School has a list of countries that are exempt from this requirement.

Graduation Requirements

The graduation requirements for the program will be:

1. Completing a total of 75 credit hours of coursework beyond the bachelor degree (see section VIII. C. for detail), with a cumulative GPA of 3.0 or higher.
2. Successful completion of the Comprehensive Exam. This examination serves as an evaluation of student preparedness for doctoral study. This examination assesses a student's understanding of the field of engineering and computing education and the major theoretical concepts, applied issues, and means of inquiry for undertaking research in the field. The student must pass the Comprehensive Exam by the end of the seventh semester (excluding summers) in the program if they were admitted without a Master's degree or by the end of the fifth semester if admitted with a Master's or the equivalent 15 credit hours. Two attempts are permitted. Any exception needs to be approved by the Graduate Committee.
3. Upon completion of the required core courses and passing the Comprehensive Exam, the student advances to Candidacy.
4. Choosing advisor(s). The student will choose a faculty from the College of Engineering and Computing as their dissertation advisor. A co-advisor could be selected from within the College or from outside.
5. Assembling a Dissertation Committee. The students will assemble a Dissertation Committee of at least four faculty members [including Major advisors]. Three committee members must be SUCCEED faculty, SUCCEED-affiliated faculty, or STEM Transformation Institute faculty, and one must be faculty from outside of SUCCEED. We strongly encourage students to select at least two SUCCEED faculty.
6. Successful presentation and submission of a dissertation proposal. The student will present and defend their plan for dissertation study. The purpose of the proposal is to provide an opportunity for the student to demonstrate their abilities to scope and plan a research project and communicate that plan both in writing and orally. The proposal will be submitted to at least three members of the candidate's dissertation committee (at least two of whom will be from SUCCEED or the STEM Transformation Institute). The candidate presents their accomplishments and proposed research and answer questions from the committee and others in the audience.
7. Satisfaction of the teaching requirement. The ability to teach at the university level is an important skill that should be encouraged in all graduate students. For this reason, students will be required to take the EGN 6055: Foundations of Engineering and Computing Teaching and Learning course prior to candidacy and participate in a mentored teaching practicum for one semester during their PhD studies in order to gain exposure to the classroom or laboratory teaching environment. Students with teaching experience from previous graduate programs may petition to waive the teaching

requirement, in which case the three-credit course should be replaced with an alternate course. Waivers will be granted at the discretion of the Graduate Program Director.

8. Submission and defense of a dissertation based upon original research in Engineering or Computing Education. A dissertation is required of all candidates for the PhD degree and must conform to the format outlined in the Regulations for Thesis and Dissertation Preparation Manual available to students online from the FIU Graduate School.
9. After submission of the dissertation and completion of all other required work for the PhD degree, the candidate will be given a final oral thesis defense examination by the Dissertation Committee. Successful completion of all of these steps will culminate in the granting of the PhD degree.

Engineering and Computing Education Foundations (12 credits)

Students must complete the following courses:

EGS 6008	Foundations of Engineering and Computing Education Scholarship	3
EGN 6900	Engineering and Computing Education Research Methods in Context	3
EGS 6057	Equity in Engineering and Computing Education: Research, Policy and Practice	3
EGN 6942	Mentored Teaching Practicum in Engineering and Computing Education	1
EGN 6957	Professional Development in Engineering and Computing Education	2

Required Engineering Pedagogy (3 credits)

EGS 6055	Foundations of Engineering and Computing Teaching and Learning	3

Research Methods/Statistics Electives (9 credits)

Students are required to complete three research methods courses. One course must be an educational/social science research methods survey course (e.g., EDF 6481). List of eligible courses are held by SUCCEED. In conjunction with their advisor, students must choose two additional research methods courses.

1 Educational/Social Science research methods survey course (List held by SUCCEED)
2 Research methods electives

ECED Concentration (9 credits)

In conjunction with their advisor, students must complete nine credit hours of courses that focus on an area of specialization.

Seminar (0 credits)

Students are required to register for a seminar course and attend weekly seminars hosted by the STEM Transformation Institute.

EGN-6935 Seminar on STEM Education Research

Engineering and Computing Specialization (15 credits)

Students must complete any five courses from one of the specialization tracks listed below. The list of courses is maintained by the unit that houses the track. This requirement can be satisfied by an appropriate Master's degree from an accredited university.

Biomedical Engineering
Civil Engineering
Computer Engineering
Computer Science
Electrical Engineering
Engineering Management
Environmental Engineering
Information Technology
Mechanical and Materials Engineering

Total Credits: 75 hours

Course Descriptions

Definition of Prefixes

EGN - Engineering General; EGS-Engineering Support;

EGN 6900 Engineering and Computing Education Research Methods in Context (3). Foundational course in research methods and practices of engineering and computing education researchers, focusing on research design decisions, research quality, ethical implications, and publishing. Prerequisite: EDF 6481 or permission of instructor.

EGN 6907 Independent Study (1-10). A variable credit independent study course for PhD students to work on topics where standard courses cannot be offered. Topics must be related to engineering or computing education. The outcomes and goals of the course for the student must be approved by department.

EGN 6920 Cooperative Education in Engineering (1-3). A variable credit cooperative education in engineering course is for current PhD students who have a position with an organization focused on their area of study. Topics must be related to engineering or computing education.

EGN 6935: Seminar on STEM Education Research (0). Weekly interactive and engaging presentations featuring faculty, students and guest speakers sharing research topics in science, technology, engineering and mathematics (STEM) topics. Prerequisite: Graduate standing.

EGN 6939 Advanced Special Topics (1-3). An advanced special topics course for PhD students to pursue and study areas in engineering or computing education at an advanced level that are otherwise not offered. The list of topics will be announced in advance for prospective students.

EGN 6942 Mentored Teaching Practicum in Engineering and Computing Education (1). Structured application of educational theories and pedagogy through classroom teaching experiences and weekly learning community meetings. Requires students find a faculty teaching mentor. Prerequisite: EGS 6055.

EGN 6957 Professional Development in Engineering and Computing Education Research (2). An exploration of professional development tools and techniques within engineering and computing education research and practice.

EGN 7918 Graduate Research (1-25). Doctoral research prior to candidacy. Repeatable. Prerequisite: Permission of the department.

EGN 7980 Dissertation Research (1-12). Research towards completing doctorate research upon completion of

their comprehensive exams. Repeatable. Prerequisite: Permission of the Major Professor and Doctoral Candidacy.

EGS 6008 Foundations of Engineering and Computing Education Scholarship (3). Introductory course providing a conceptual understanding of engineering and computing education through philosophical theories for research and practice. Theory-based methods will guide students through a historical context of engineering and computing education and its impact on current and future aspects of the fields.

EGS 6055 Foundations of Engineering and Computing Teaching and Learning (3). Introduction to learning theory and inclusive, learner-centered, and evidence-based pedagogy and assessment in engineering and computing, using a human-centered design approach to educational design.

EGS 6057 Equity in Engineering and Computing Education: Research, Policy and Practice (3). An analysis of diversity and inclusion through research, policy and practice within science, technology, engineering and mathematics (STEM) education for the private and public sectors.

College of Engineering and Computing

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Associate Dean for Research **Osama Mohammed**
Associate Dean for Undergraduate Studies **Mark Weiss**
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Interim Chairperson, Civil and Environmental Engineering **Arindam Gan Chowdhury**
Interim Chairperson, Electrical and Computer Engineering **Jean Andrian**
Chairperson, Mechanical and Materials Engineering **Arvind Agarwal**
Endowed Chairperson, Moss Construction Management **Jose Faria**
Interim Director, School of Computing and Information Sciences **Jason Liu**
Director, School of Universal Computing, Construction, and Engineering Education (SUCCEED) **Monica Cardella**
Interim School Director, School of Biomedical, Materials and Mechanical Engineering **Anthony J. McGoron**
Director, Moss School of Construction, Infrastructure, and Sustainability **Atorod Azizinamini**
Interim School Director of Electrical, Computer, and Enterprise Engineering **Osama Mohammed**
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Director, Accelerated Bridge Construction University Transportation Center **Atorod Azizinamini**
Co-Director, Accelerated Bridge Construction **David Garber**
Co-Director, Accelerated Bridge Construction **Armin Mehrabi**
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Co-Director, Lab Wind Engineering Research **Ioannis Zisis**
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Director, Lehman Center for Transportation Research **Mohammed Hadi**
Director, Transit Program and Co-Director of Driving Simulation Lab **Fabian Cevallos**
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Director, Engineering Manufacturing Center **Ibrahim Tansel**
Director, Center for Diversity and Student Success (CD-SSEC) **Andres Tremante**
Director, Center for the Study of Matters at Extreme Conditions **Jiuhua Chen**
Program Director of International Program Development **Kang K Yen**
Program Director of Enterprise and Logistics Engineering **Chin-sheng Chen**
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Weiss, Mark, Ph.D. *(Princeton University), Professor, Knight Foundation School of Computing and Information Sciences; Associate Dean for Undergraduate Education; Interim Director, School of Universal Computing, Construction, and Engineering Education (SUCCEED)*

Wen, Wujie, Ph.D. *(University of Pittsburgh), Assistant Professor, Electrical and Computer Engineering*

Whittaker, Richard, Ph.D. *Assistant Teaching Professor, Knight Foundation School of Computing and Information Sciences*

Wu, Yanzhao, Ph.D *(Georgia Institute of Technology), Assistant Professor*

Wunnava, Subbarao Ph.D., *(Andhra University), Emeritus Professor, Electrical and Computer Engineering*

Xie, Ning, Ph.D. *(Massachusetts Institute of Technology), Associate Professor, Knight Foundation School of Computing and Information Sciences*

Yen, Kang K., Ph.D., P.E. *(Vanderbilt University), Professor, Graduate Program Director (M.S.), Electrical, Program Director of International Program Development and Computer Engineering*

Zhang, Lu, Ph.D. *(University of Illinois - Urbana-Champaign) Assistant Professor, Moss Construction Management*

Zisis, Ioannis, Ph.D. *(Concordia University), Associate*

Professor, Civil and Environmental Engineering; Co-Director, Laboratory for Wind Engineering Research, International Hurricane Research Center

College of Law

Dean **Antony Page**

Associate Deans

Associate Dean, Academic Affairs **Eloisa C. Rodriguez-Dod**
Associate Dean, Accreditation & Reporting **José Gabilondo**
Senior Associate Dean, Clinical Education, Experiential Learning & Engagement **Michelle D. Mason**
Associate Dean, Graduate Studies & Global Engagement **Manuel A. Gómez**
Associate Dean, Faculty Research & Development **Howard Wasserman**
Associate Dean, Academic Support **Louis N. Schulze, Jr.**
Associate Dean, Student Services **Angelique Ortega Fridman**
Associate Dean, Diversity, Culture, and Inclusion **Janewa OseiTutu**

Assistant Deans

Assistant Dean, Abraham S. Ovadia Career Planning & Placement **Ana Bierman**
Assistant Dean, Administration& Strategic Initiatives and Director, Recruitment **Christopher B. Carbot**
Assistant Dean, for Legal Information Services **Lisa Davis**
Assistant Dean, Bar Preparation **Raul Ruiz**

Directors

Director, Legal Skills & Values **Marci A. Rosenthal**
Co-Director, Legal Skills & Values **David D. Walter**
Director, Finance & Administration **Danilo Castillo**
Director, Admissions & Financial Aid **Alma O. Miro**
Director, Alumni Relations & Associate Director, Development **Jasmin Grant**
Director, Trial Advocacy Program **H.T. Smith**
Director, Carlos A. Costa Immigration & Human Rights Clinic **Juan Gomez**
Director, LL.M Program **Gilberto Guerrero Rocca**
Registrar **Almi Rodriguez**

A complete listing of faculty and administration is available at https://law.fiu.edu/directory/?_sft_entry_type=faculty and https://law.fiu.edu/directory/?_sft_entry_type=administration

Mission

The mission of the Florida International University College of Law is to serve the citizens of the State of Florida, particularly South Florida, by providing access to the legal profession through a contemporary, high-quality educational program. Like the University and metropolitan communities of which they are a part, the student body, faculty and administration reflect a broad range of backgrounds, interests, and professional possibilities. Out of this diversity, the College of Law seeks to create a scholarly community in which students and faculty discuss issues freely and with respect for differing perspectives.

The faculty takes seriously its obligations to the profession and the society it serves; so faculty participate actively in local, state, national and international professional service activities. Similarly, the College of Law seeks to graduate students who appreciate the lawyer's professional and ethical obligations to serve the community, including those in need. To this end, students must complete a community service requirement. The College of Law also offers clinical legal education programs in which students represent indigent clients.

J.D. Curriculum

Accredited by the American Bar Association and admitted to the Association of American Law Schools, the College of Law offers both a full-time program and a part-time program. Ordinarily, full-time students will earn the J.D. degree in three years and part-time students in four years (including summer sessions). Students are admitted to either the full-time/day division or the part-time/evening division, and generally may not transfer from one division to the other or take required courses in the other division until they have completed the first 30 hours of course work. All students must complete a minimum of 90 hours of course work with a cumulative grade point average of 2.0 or higher to earn the J.D. degree.

In addition to the traditional courses offered by nearly all U.S. law schools, the College of Law builds on FIU's international distinction by incorporating important developments in the globalization of both public and private law. The curriculum does this by requiring all first-year students to take an introductory class on international and comparative law, including international and comparative content into all domestic law classes, and offering a rich array of upper-level electives in international, transnational and comparative law. Recognizing the importance of a solid grounding in the skills and values of the profession, the College of Law curriculum further provides students with extensive, rigorous legal research and writing experiences, introduces other skills such as counseling and negotiation.

The curriculum is taught by a faculty committed to excellence in both teaching and scholarship. Faculty members are actively engaged in research in their respective areas of expertise. The scholarly mission of the College of Law enriches classroom teaching and learning; contributes to the understanding, development, and reform of the law; and promotes the University's mission as one of the nation's leading urban public research institutions.

The College of Law also maintains a Master of Law (LL.M.) for foreign lawyers, a Juris Master in Law (J.M.), a Master of Science in the Law of Technology and joint degree programs with the College of Business, Latin American and Caribbean Studies, Department of Environmental Studies, College of Engineering, Department of Public Administration, Department of Social Work, Herbert Wertheim College of Medicine, and the Department of Psychology. In addition to these programs, students may be able to arrange for other cross-disciplinary graduate studies, with advance permission of the College of Law and the Dean of the other graduate discipline.

Admissions

The College of Law Admissions Committee seeks to enroll a diverse group of students who have demonstrated academic and personal achievement and who show signs of future promise. While the admissions process gives much weight to a prospective student's academic record and performance on the LSAT or GRE, the Admissions Committee, in its discretion, also takes into account other factors relevant to one's potential as a lawyer. Positive factors include leadership ability, commitment to public service, international experience, work history, military service, and evidence of overcoming substantial obstacles (for example: a native language other than English; economic, family, or social hardship, etcetera.) Negative factors include a history of criminality or academic misconduct. The Admissions Committee encourages each applicant to answer all questions with candor, detail and, where appropriate, to provide specific examples of relevant background experiences.

Completed applications for admission will be considered on a rolling basis beginning in late October. **Please see the College of Law website for complete application details at**
https://law.fiu.edu/lawadmit/

Please note the FIU College of Law will not accept LSAT scores earned prior to June 2015. Candidates for whom English is not their first language must take the Test of English as a Foreign Language. **www.toefl.org**.

Juris Master in Law (J.M.)

Admission Requirements

Admission to the J.M. program will be based on the following factors:

1. Undergraduate GPA;
2. Professional and academic background;
3. Personal statement (essay or statement of interest);
4. Professional and academic references; and
5. Graduate degree or LSAT, GRE, GMAT or MCAT score report.

The candidate for the J.M. degree must have a bachelor's degree from an accredited U.S. institution, or a comparable degree from an international institution, with a minimum 3.0 (on a 4.0 scale) grade point average (GPA) in all work attempted while registered as an upper-division undergraduate student. Alternatively, the candidate must have received a graduate degree from an accredited U.S. institution, or a comparable degree from an international institution. Any international degree would need to be evaluated to be determined equivalent. The J.M. Admission Committee will have discretion to waive the GPA minimum if the candidate's achievements in activities after receiving the bachelor's degree suggest a high likelihood of success in the J.M. program. Candidates may not have completed or currently be enrolled in a professional law degree program.

Acceptance into the program will be based on the candidate's standardized test scores, academic training and professional background, a personal statement, and professional references. For students from non-English speaking countries, demonstrated proficiency in English (at a level needed to comprehend lectures, class discussion, and reading assignments in law) will be required. TOEFL scores for non-English speakers will be assessed, unless the applicant submits a TOEFL Waiver Request from in order to be evaluated for a waiver to the TOEFL requirement.

Degree Requirements

The full-time J.M. candidate will take 11 credits in the fall, 13 credits in the spring, and 6 credits in the summer, to complete the program within one year. Students may elect to complete the program on a part-time basis by taking fewer credits per semester. The sequence of courses will be as follows:

Required Core Courses: (17 credits)

JRM 6300	Introduction to American Law	3
JRM 6710	Legal Analysis and Writing	3
JRM 6010	Contracts and Business Law	4
JRM 6700	Torts and Criminal Wrongs	3
JRM 6091	Introduction to Regulatory Compliance	4

Choose one of the following concentrations:

Advanced Legal Skills and Litigation Management Concentration: (13 credits)

JRM 6352	Legal Procedure and the Legal System	2-3
Litigation Management and Legal Technology		3
JRM 6401	Conflict Resolution: Beyond Litigation	3
Discovery and e-Discovery		3

Choose one of the following:

JRM 6720	Family Relations Law	3
JRM 6030	Real Estate Law	3

Health Law Concentration: (13 credits)

JRM 6120	Public Health and The Law	3
JRM 6100	Regulations of Medical Institutions	4
JRM 6110	Medicare and Medicaid Law	3
JRM 6070	Regulation of Health Insurance	3

Banking & Finance Law Concentration: (13 credits)

JRM 6080	Banking and Finance Regulation	3
JRM 6081	Bank Secrecy Act and Anti-Money Laundering Law Part I	2
JRM 6082	Bank Secrecy Act and Anti-Money Laundering Law Part II	2
JRM 6083	Consumer and Commercial Lending Regulations	3
JRM 6084	Consumer Financial Services Regulation	3

Employment & Labor Law Concentration: (13 credits)

JRM 6402	Conflict Prevention and Resolution in the Workplace	3
JRM 6542	Harassment in the Workplace	3
JRM 6545	Legal Issues in the Workplace	4
JRM 6543	Remedies in the Workplace	3

Education Law Concentration: (13 credits)

JRM 6580	Legal Developments in Education	4
JRM 6581	Education Regulation and Legislation (No Child Left Behind)	3
JRM 6541	Legal Developments in Disability Law	3
Student Privacy and Educational Records		3

Master of Law (LL.M.)

The LL.M. is a graduate degree in law exclusively designed for lawyers who have received an undergraduate law degree from a foreign country. It is composed of 24

credits and is based entirely on coursework that can be completed in one academic year (2 semesters) on full-time basis. The LL.M. also offers the option of enrolling on a part-time basis to accommodate those who work or have other commitments. The LL.M. curriculum provides a robust foundation in United States law, legal reasoning, research and writing through three foundation LL.M. courses. The rest of the LL.M. curriculum is elective and customizable, thus allowing the students to choose from a broad range of law courses offered at FIU Law and assemble a study plan that fits each candidate's individual goals. Upon completion of the LL.M coursework, students may opt to transfer to the J.D. program subject to additional requirements, prepare for the Bar exam needed to obtain a license to practice law in certain U.S. states, gain work experience through an Optional Practical Training (O.P.T.), or pursue other academic or professional endeavors.

Admissions Requirements

1. Transcripts from Evidence of having obtained a foreign law degree, including official transcripts, submitted through the Law School Admissions Council (LSAC);
2. Evidence of English language proficiency through any of the following: (a) having obtained a minimum score of 90 points in the Test of English as Foreign Language (TOEFL), or (b) having obtained a minimum score of 7.0 points in the International English Language Testing System (IELTS),
3. 2 Letters of recommendation from someone who is familiar with the candidate's academic and/or professional accomplishments;
4. Resume or Curriculum Vitae;
5. Statement of Purpose; and
6. Interview by phone, if requested

Credits required: 24

Foundation Courses
United States Law I
United States Law II
Legal Skills & Values: LLM

Elective courses
Chosen by student and faculty advisor from approved course catalog

Master of Science in the Law of Technology (30 credits)

Admission Requirements

Admission to the Master of Science in the Law of Technology program will be based on the following factors:

1. Undergraduate GPA;
2. Professional and academic background;
3. Personal statement (essay or statement of interest);
4. Profession and academic references; and

The candidate for the Master of Science in the Law of Technology degree must have a bachelor's degree from an accredited U.S. institution, or a comparable degree from an international institution, with a minimum 3.0 (on a 4.0 scale) grade point average (GPA) in all work attempted while registered as an upper-division undergraduate student. Alternatively, the candidate must have received a graduate degree from an accredited U.S. institution, or a comparable degree from an international institution. Any international degree would need to be evaluated to be determined equivalent. The Master of Science in the Law of Technology Admission Committee will have discretion to waive the GPA minimum if the candidate's achievements in activities after receiving the bachelor's degree suggest a high likelihood of success in the Master of Science in the Law of Technology program.

Acceptance into the program will be based on the candidate's academic training and professional background, a personal statement, and professional references. For students from non-English speaking countries, demonstrated proficiency in English (at a level needed to comprehend lectures, class discussion, and reading assignments in law) will be required. TOEFL scores for non-English speakers will be assessed unless the applicant submits a TOEFL Waiver Request form in order to be evaluated for a waiver to the TOEFL requirement.

Degree Requirements

The full-time Master of Science in the Law of Technology candidate will take 30 credits to complete the program within three semesters. Students may elect to complete the program on a part-time basis by taking fewer credits per semester. Students will choose among the following courses:

Pre-Program Boot Camp (optional):

Workshop	United States Law I: Methods, Sources, and Structure (0)	
Workshop	Fundamentals of Cybersecurity (0)	
Workshop	Python for Lawyers (0)	

Semester One
Law, Technology, and Innovation (12 credits)

LAW 6883	Blockchain Fundamentals for Lawyers	3
ECE 6XXX	Sensor IoT Analytics	3
LAW 6XXX	Cybersecurity and User Privacy	3
LAW 6821	Law, Science, and Technology	3
LAW 6823	Law Practice Technology	3

Semester Two
Law, AI, and Machine Learning (9 credits)

LAW 6233	Computer and Internet Law	3
LAW 6570	Intellectual Property Law	3
LAW 6881	Smart City Applications and Governance	3
LAW 6880	Artificial Intelligence and the Law	3
CAP 5610	Introduction to Machine Learning	3
CAP 5768	Introduction to Data Science	3

Semester Three
Data Protection and Financial Technology (9 credits)

LAW 6XXX	Data and Algorithms in the Criminal Justice System	
LAW 6038	Financial Technology Law	3
LAW 6XXX	Blockchain Applications	3
ECE 6XXX	Data Visualization	3

Note: CAP courses adapted to exclude prerequisites. LAW courses approved by faculty on 12/13/18. "ECE" courses recently approved.

Note: Pre-program workshops are "optional.

Graduate Certificate in Environmental and Natural Resources Law

The Environmental and Natural Resources Law Graduate Certificate program seeks to provide graduate-level interdisciplinary instruction in the diverse fields of Environmental and Natural Resources law. Specifically, the Certificate Program will provide law students with in-depth study and training in state and federal legislation shaping environmental policy and governing the exploitation and preservation of natural resources, thereby increasing their competitiveness amongst law graduates in the state of Florida and elsewhere. The certificate will allow students to complement their legal studies by designing a unique curriculum that focuses on their particular environmental interests, leveraging Florida's unique geographic location and increasing demand for lawyers with training in environmental and natural resources law.

Certificate Requirements: (15 credits)

Required Courses: (9 credits)

LAW 6471	Environmental Law	3
LAW 6470	Natural Resources Law	3
LAW 6520	Administrative Law	2-3

Elective Courses: (at least 6 credits)

LAW 6492	Water Resources Law	2
LAW 7475	Ocean and Coastal Law	2-3
LAW 6936	Seminars (Biodiversity Law)	2-3
LAW 6936	Seminars (Climate Change Law)	2-3
LAW 6460	Land Use Planning and Control	2-3
LAW 7268	International Environmental Law	2-3
LAW 6936	Seminars (Energy Law)	2-3
LAW 6905	Independent Study	1-2
LAW 7946	Advanced Externship Placement	2-4

Related Courses (may be taken to count for 0-2 of the 6 elective credits)

LAW 6730	Admiralty Law	2-3
LAW 6250	Comparative Law	2-3
LAW 6425	Construction Law	2-3
LAW 6302	Federal Courts	3
LAW 6580	Food and Drug Law	2-3
LAW 6720	Health Law	2-3
LAW 6263	International Human Rights Law	2-3
LAW 6555	Law and Economics	2-3
LAW 6821	Law, Science, and Technology	3
LAW 6523	Legislation	2-3
LAW 6531	Local Government Law	2-3
LAW 6297	NAFTA and Other Regional Trade Agreements	2-3
LAW 6426	Real Estate Transactions	2-3

Graduate Certificate in Intellectual Property

This certificate program is open to degree-seeking students only.

Program Requirements

1. (a) Earn at least 14 credits from the Intellectual Property course list, (b) take at least two courses from the Entrepreneurship course list, and (c) take the Intellectual Property survey course.
2. Students must earn a GPA of 2.7 over their law school career, as well as a GPA of 3.0 in their courses on the Intellectual Property course list.
3. Students must complete a seminar which requires a 25-page paper based on original research which may be used to fulfill the upper-level College's writing requirement, or an independent study that includes a research paper on a topic related to Intellectual Property.

Intellectual Property Course List

LAW 6550	Antitrust	2-3
LAW 6233	Computer and Internet Law	2-3
LAW 6572	Copyright Law	2-3
LAW 7575	Entertainment Law	2-3
LAW 6845	Fashion and Design Law	2-3
LAW 6570	Intellectual Property	3-4
LAW 6574	International Intellectual Property Law	2-3
LAW 6573	Patent Law	2-3
LAW 6936	Seminars: Internet Law	2-3
LAW 6936	Seminars: IP and Human Rights	2-3
LAW 6936	Seminars: Advanced Copyright Law	2-3
LAW 6936	Seminars: Advanced Topics in Intellectual Property	2-3
LAW 7844	Sports and Entertainment Law	3
LAW 6576	Trademark and Geographic Indications Law	2-3

Entrepreneurship Course List

LAW 6520	Administrative Law	2-3
LAW 6310	Alternative Dispute Resolution	2-3
LAW 7085	Banking Law	2-3
LAW 6730	Admiralty Law	2-3
LAW 6052	Bankruptcy Law	2-3
LAW 6060	Business Organizations	4
LAW 7308	Complex Litigation	2-3
LAW 6425	Construction Law	2-3
LAW 7064	The Law of Corporate Finance	3
LAW 7549	Employment Discrimination	3
LAW 6545	Employment Law	2-3
LAW 6471	Environmental Law	3
LAW 6280	European Union Law and Policy (including during Study Abroad)	1-3
LAW 6302	Federal Courts	3
LAW 7511	First Amendment	2-3
LAW 6720	Health Law	2-3
LAW 6261	International Business Transactions	2-3
LAW 6316	International Commercial Arbitration	2-3
LAW 6265	International Litigation	2-3
LAW 7262	International Trade Law and Policy	2-3
LAW 6540	Labor Law	2-3
LAW 6460	Land Use Planning and Control	2-3
LAW 6555	Law and Economics	2-3
LAW 6751	Law Firm Management	2-3
LAW 6821	Law, Science, and Technology	3
LAW 7065	Mergers and Acquisitions	2-3
LAW 6305	Remedies	3
LAW 6010	Sales	2-3
LAW 6051	Secured Transactions	2-3
LAW 6560	Securities Regulation	2-3
LAW 6936	Seminars: Financial Crisis	2-3
LAW 6948	Business, Innovation and Technology Clinic	4-6
LAW 6840	Sports Law	2-3

**Additional courses may be added from time to time*

Course Descriptions

Definition of Prefixes

LAW-Law
JRM-Juris Master

FOUNDATION CURRICULUM

LAW 5300 Civil Procedure (4). This course entails study of civil litigation from the inception of a suit through trial and appeal. The course considers problems of personal and subject-matter jurisdiction, service of process, venue, leadings, rules governing joinder of multiple parties and multiple claims, discovery and pretrial, the trial itself (with or without a jury), judgments, and appeals.

LAW 5501 Constitutional Law (4). This course deals with the fundamental principles of American constitutionalism. It considers the relationships between the branches of the federal government within the separation of powers and the relationship of the national government with the states within our federalism. It focuses on the institution of the Supreme Court and its power of judicial review and how that power is exercised to interpret the Constitution. The various powers of Congress are studied, especially the commerce clause power, including its negative effects on the state police power. The executive powers of the President, both domestic and foreign, are explored. The constitutional relationship between the individual and the government are analyzed within the context of the due process and equal protection clauses of the fourteenth amendment.

LAW 5000 Contract Law (4). This course introduces and explores the function of contracts in a free enterprise economy. It covers the evolution and application of common law doctrines and, where applicable, those provisions of the Uniform Commercial Code governing the contracts process, including mutual assent, consideration, reliance, conditions, interpretation of contract language, performance and breach, and remedies. The course may also cover impossibility and frustration, beneficiaries, and assignments.

LAW 5100 Criminal Law (3). The purpose of the course is to introduce the principles and objectives of the criminal law and to explore its utility and limitations as a means of social control. The course covers general common law elements and principles, including actus reus and mens rea; general defenses, including insanity, ignorance and mistake, duress, self-defense, defense of others and of property, necessity, and entrapment; the criminal capacity of children and of corporations; theories of liability for various parties to crime; and vicarious strict liability.

LAW 5259 Introduction to International and Comparative Law (3). This new course introduces students to public international law, international economic law, and comparative law. Exposure to the law of nations in the international component of the course poses critical jurisprudential questions on the nature of law, the role of enforceability, and the prospects for constructing an international society. The comparative component compares and contrasts the common law system that prevails in the United States to civil law systems, especially as they have evolved in Latin America. Together the course provides the foundation for later advanced study in these and other topics as part of the upper-level curriculum.

LAW 5792 Legal Skills and Values I (3). LAW 5793 Legal Skills and Values II (2). The Legal Skills and Values Program at the College of Law combine demanding traditional instruction in legal research and writing with an introduction to other lawyering skills, like interviewing and counseling, and to issues of professionalism. It is a required three-semester curriculum that will run throughout the first year, and must be completed by the end of the fourth semester by full-time students and by the end of the fifth semester by part-time students. It is premised on the beliefs that 1) strong research and writing skills are vital to lawyers in all areas of practice; 2) other lawyering skills should be introduced early in a student's academic career; and 3) concerns for the ethical sensitivity and civility of lawyers demand an early and recurring emphasis.

LAW 5400 Property (4). This course introduces and examines concepts of property ownership, possession, and transfer. It includes acquisition and protection of personal property; estates in land, including present, concurrent, and future interests; leasehold estates; easements, covenants, and private controls of land use; some aspects of real property transfers, including deeds, descriptions, recording and priority, and the real estate contract; and an introductory treatment of nuisance, zoning and other public controls of land use.

LAW 5700 Torts (4). This course examines the body of law directed toward the compensation of individuals for injuries to their protected legal interests. It includes liability for negligence and for intentional interference with person and property, and liability without fault (“strict liability”). Covered are doctrines including duty, breach of duty, causation, damages, and defenses.

UPPER LEVEL CURRICULUM

LAW 6760 Accounting for Lawyers (2-3). This is a study of the basic principles, conventions, and methods of accounting to enable the lawyer to understand the legal economic environment, with specific reference to accounting problems encountered in such areas of the law as tax and corporations.

LAW 6520 Administrative Law (2-3). This is an introduction to the laws controlling executive branch agencies of government. Major topics include delegation of power to agencies, modes of agency action, control of agencies by the legislative branch, control by the judicial branch, and public access and influence.

LAW 6730 Admiralty Law (2-3). This course is an introduction to the law of the sea under federal and international law. Topics covered will include rules governing liability for maritime collision, rights and duties arising from personal injury or death of a seaman, liabilities of ship owners and insurers, maritime liens and mortgages, and special problems caused by involvement of governments as parties to maritime transactions and litigation. Other topics will include admiralty practice and procedure and maritime environmental law.

LAW 6783 Advanced Legal Analysis (2). Advanced legal analysis presents students with the opportunity to refine the core skills necessary for success on the bar exam. After an introduction to the testing methods used on the bar exam, students will learn optimal ways to prepare

for their bar study. Students will then complete numerous multiple choice and essay questions, similar to those used on the Multistate Bar Examination and on the state day of the bar, and receive extensive feedback from faculty regarding their strengths and weaknesses. The course culminates in an examination designed to stimulate the actual bar exam. Prerequisite: Open to students in the fall semester of the final year of study at the College of Law.

LAW 6798 Advanced Legal Research (2-3). Advanced Legal Research will build on the basic foundation of legal research skills provided through Legal Skills and Values I and II by offering students an advanced and in-depth exploration of legal research techniques and resources, including print and electronic tools. This course will cover primary and secondary legal sources through a variety of resources, methods, and processes for conducting efficient legal research. Prerequisite: Cannot be taken simultaneously with LSV2.

LAW 6114 Criminal Procedure: Adjudication (3). This course examines topics not covered in the basic course in Criminal Procedure, including the grand jury process, bail, the plea-bargain process, right to jury trial, double jeopardy, joinder and severance, and right to confront and examine witnesses.

LAW 6791 Advanced Electronic Legal Research (2-3). The goal of Advanced Legal and Electronic Research is to review and expand the legal research skills that have been introduced in Legal Skills and Values courses. The course focuses on practitioner-oriented materials and their use, as well as more sophisticated Internet and electronic research techniques. In addition, the student will choose a specific subject area of interest to the student, and then prepare a research guide to be presented to the class.

LAW 7943 Advanced Immigration and Human Rights Clinic (1-2). Advanced clinical training under the supervision of a law school faculty member in order to undertake work on complex cases or projects, including completing project(s) or case(s) begun by a student during the Immigration and Human Rights Clinic. Such advanced work may include appellate advocacy, impact litigation, legislative advocacy, community organizing, and other work in the area of immigration and human rights.

LAW 7946 Advanced Externship Placement (2-4). To perform advanced legal work at the same area or to explore a different area of careers in government, public interest or corporate (in house) law. Prerequisites: Criminal Externship or Civil Externship or Judicial Externship.

LAW 7944 Advanced Legal Clinic (1-5). Advanced clinical training under the supervision of a law school faculty member in order to complete projects or cases begun by the student during a clinic, or to pursue in more depth the subject of the clinic. Prerequisites: One prior clinical course. Must be approved by the Supervising faculty member.

LAW 7364 Advanced Trial Advocacy (3). This course focuses on advanced elements, concepts, and strategies in presenting complex cases to a jury, namely jury selection, presentation of scientific evidence, and examination of expert witness. Prerequisites: Trial Advocacy, Evidence, Approval by the Director of the Trial Advocacy Program.

LAW 6270 African American and Minority Jurisprudence (3). This course will teach the students about the substantial body of legal thought produced by African American, Indigenous, Latinx, and Asian legal scholars in the United State. The course will focus on the historical development of minority legal thought from the founding of the United States to the present. Rather than focusing on race specifically, the course seeks to provide students with a richer understanding of minority scholars' thoughts on the law and politics of the United States more broadly. Consequently, while the course will concern itself with racial equality, it may also explore writings on legal issues that may not have a specific component touching on race. The course will also provide a comparative and international exploration of thinkers outside the United States focusing particularly on the Caribbean, Latin America, Asia, and Africa.

LAW 7956 African Journal of Legal Studies (1-2). The AJLS is a peer-reviewed interdisciplinary academic journal focusing on human rights and rule of law issues in Africa.

LAW 6310 Alternative Dispute Resolution (2-3). This course entails an examination of the alternative dispute resolution mechanisms and techniques for incorporating them into legal practice. A variety of readings and exercises are used as background for discussions of the utility of different mechanisms for resolving certain kinds of disputes. This course focuses on adjudication, negotiation, and mediation.

LAW 6271 American Indian Law (3). The course will begin with historical materials, followed by an overview of federal Indian policy periods, and then will proceed to examine the legal framework chronologically then by subject matter.

LAW 6550 Antitrust (2-3). The course is a study of judicial decisions construing and applying the federal antitrust laws (i.e., Sherman, Clayton, Robinson-Patman, and Federal Trade Commission Acts) to the control of the competitive process in the American economy.

LAW 7952 Appellate Advocacy Competition (2). Students selected as members of the Board of Advocates Appellate Advocacy Group will compete in a regional, national, or international appellate advocacy competition and will earn credit for satisfactory completion of their competition duties. Students, working in a team, will typically prepare an appellate brief and then deliver an appellate oral argument multiple times during the competition oral argument rounds. Prerequisite: Appellate Procedure.

LAW 6372 Advanced Appellate Advocacy (2). Students, working in two-person teams, will prepare an appellate brief and deliver an appellate oral argument in a competition format. Students will receive substantial classroom instruction in persuasive brief writing and oral advocacy as well as the relevant appellate rules and procedure topics. Prerequisite: Students on academic supervision may enroll only with approval of course instructor and Dean of Academic Support

LAW 7373 Appellate Procedure (3). During this course, students will focus on practice and procedure in the Florida District Courts of Appeal and the United States Court of Appeals for the Eleventh Circuit. The course covers selected state and federal statutes and court rules

governing appellate procedure as well as key appellate topics such as the merits of appeal, ethical limitations, jurisdiction, finality, issue selection, preparation of the record, preservation of error, and standard and scope of review. Upon successful completion of Appellate Procedure, students will be able to: (1) describe and explain the structure of both the Florida District Courts of Appeal and the Eleventh Circuit Court of Appeals judicial systems, (2) explain the basic processes for appeals, (3) explain the basic rules of the Florida District Courts of Appeal and the Eleventh Circuit Court of Appeals, (4) describe the jurisdiction of the Florida District Courts of Appeal and the Eleventh Circuit Court of Appeals, (5) evaluate the role of counsel in filing appeals, including sanctions for filing frivolous appeals, and (6) describe what happens after the disposition of an appeal.

LAW 6880 Artificial Intelligence and the Law (3). This foundation course toward the MS in Legal Tech degree explores the revolution in AI and law that began with text analytic programs such as IBM's Watson and Debater and the open-source information management architectures on which they are based. AI, sometimes referred to as cognitive computing, refers to computers learning how to complete tasks traditionally done by humans. The focus of this foundation course on AI is on computers looking for patterns in data, carrying out tests to evaluate the data and finding results (for AI/smart machines, see LAW 6881 Smart City Applications and Governance, and CAP 5602 Introduction to Artificial Intelligence). This course is open only to students enrolled in the MS in the Law of Technology program.

LAW 6291 Aviation and Space Law (2-3). Air Space Law at the FIU College of Law examines post-9/11 national aviation and space policy, together with key administrative, antitrust, business, constitutional, and legislative and regulatory issues confronting the civil and general airplane transportation industry, Florida's "Space Coast", and the international communities for which Miami-Dade County serves as a gateway. Prerequisite: First year curriculum.

JRM 6081 Bank Secrecy Act and Anti-Money Laundering Law Part I (2). This is the first part of LAW 6088. The course offers a study of the rules and regulations through which the Federal Deposit Insurance Corporation (FDIC) establishes and maintains procedures designed to assure and monitor compliance with the BSA and implementing regulations. The course introduces students to the administrative and enforcement mechanisms of OFAC (Office of Foreign Assets Control) of the U.S. Department of Treasury. Part II reviews the penalties and other regulatory enforcement actions imposed for noncompliance with money laundering laws, as well as criminal prosecutions for willful violations of same. Prerequisite: Juris Masters Students Only

JRM 6082 Bank Secrecy Act and Anti-Money Laundering Law Part II (2). This is the second part of LAW 6088. The course offers a study of the rules and regulations through which the Federal Deposit Insurance Corporation (FDIC) establishes and maintains procedures designed to assure and monitor compliance with the BSA and implementing regulations. The course introduces students to the administrative and enforcement mechanisms of OF AC (Office of Foreign Assets Control) of the U.S. Department of Treasury. Part II reviews the penalties and other regulatory enforcement actions imposed for noncompliance with money laundering laws, as well as criminal prosecutions for willful violations of same. Prerequisite: Juris Masters Students Only

JRM 6080 Banking and Finance Regulation (3). This course provides an overview for the business and human resources professional of the banking and finance sector's important role in ensuring compliance with complicated legal, regulatory and supervisory issues within banking law and practice. Prerequisite: Juris Master students only.

LAW 7085 Banking Law (2-3). This course is concerned with the federal regulation of national and state-chartered financial institutions. Topics include the history of banking in the United States, entry restrictions, expansion through the bank holding company structure, branching, liability issues, limitations on bank activities, and the regulation of failing financial institutions.

LAW 6052 Bankruptcy (2-3). This course covers such diverse matters as the various forms of relief available to different kinds of debtors, including liquidation, reorganization of a business, and adjustment of an individual's debts; financing a Chapter 11 debtor in possession; the automatic stay and the rights of secured and unsecured creditors; the trustee's avoiding powers, exemptions, discharge of debts and the treatment of executory contracts. The basic concepts underlying the 1978 Bankruptcy Code such as discharge, reorganization and equitable distribution are also investigated.

LAW 6882 Blockchain Applications: Enterprise (3). This course lays a solid foundation for understanding the current state of the blockchain technology landscape. The course examines the blockchain as one form of a distributed ledger technology (DLT) and explores the three of the main DLTs associated with the blockchain: Hyperledger Fabric, R3 Corda, and Ethereum. The course provides the student with a framework for choosing the right technology platform (public, private/permissioned, consortium, etc.) and designing the best solution that integrates existing systems. In addition, the course explains the various governance models for establishing and operating a blockchain business network. This course is open only to students enrolled in the MSLT degree program. Corequisite: Foundation courses for MS Law of Tech

LAW 6884 Blockchain Regulation (2). This survey course will focus on the new technology of blockchain and relevant legal implications, influenced by political, business, and economic considerations. It will provide students with a good understanding of what the technology is, its history, uses and how governments worldwide, though focused on the United States, have responded to it and likely will in the future. The professor will rely on personal experiences in the blockchain space representing, commenting upon and/or advising clients and blockchain networks and media. We will review materials on cryptocurrencies to understand what they are and the multiple opportunities for their application. We will read legal cases by the government and class actions involving ICOs and blockchain companies, exchanges, or founders, and relevant rules and regulations by the SEC, CFTC, OCC, FinCEN, NYS and DOJ, among others. For two separate classes during the semester, we will have

guests, one class from the regulators and one from the blockchain community, invited to speak with the class.

LAW 6958 Board of Advocates (1-2). Students selected as members of the Board of Advocates will earn credit for satisfactory completion of their Board duties, which will include participation on at least one competition team (competition credits will be awarded separately); service as bailiffs, timekeepers, clients, witnesses, jurors, and judges for practice rounds and courses; and participation in Board meetings and activities. Board officers, as well as student coaches for competition teams, may earn additional credit for satisfactory completion of their duties as officers or coaches.

LAW 6948 Business, Innovation and Technology Clinic (4-6). Law students provide basic corporate legal assistance to for profit small businesses, entrepreneurs, and non-profit organizations that cannot afford to pay market rates for legal services. Prerequisites: 45 credits Corequisites: Professional Responsibility; Business Organization or Patent Law or Trademark Law

LAW 5072 Business Law and Intellectual Property for Engineers and Entrepreneurs (3). Focused on the formation, governance, operation, and legal protection of businesses. Coverage includes contracts, malpractice, products liability, employment law, and intellectual property law. Prerequisite: Permission of the instructor. Corequisite: Engineering students only – not for law majors.

LAW 6060 Business Organizations (4). This is a basic course on state and federal law governing incorporated business enterprises, partnerships and limited liability companies.

LAW 7070 Business Planning (2-3). This course explores the application of laws relating to unincorporated and incorporated business organizations and the federal income taxation of such organizations in the context of business planning and counseling situations. Prerequisites: Business Organizations, Federal Income Tax, Corporate and Partnership Tax.

LAW 6935 Caribbean Law and Development (2-3). This course will cover the legal and judicial systems of the Caribbean countries and the process by which these systems were introduced. A focus of the course is on Regional Cooperation in the political and especially economic areas. Similarities and differences across the countries of the region that both propel and hinder legal integration will be highlighted.

LAW 6943 Carlos A. Costa Immigration and Human Rights Clinic (4-6). Students enrolled will represent low-income immigrant clients in federal immigration court. Prerequisites: 45 credits, Professional Responsibility, Evidence and Immigration Law. Corequisites: Professional Responsibility, Evidence and Immigration Law.

LAW 6714 Children and the Law (2-3). This course will consider: Constitutional issues posed by the allocation of power as between the state and the family; the status of the child within the family, including economic status, scope of parental privilege to discipline, problems of medical consent, disputes over custody, and adoption; and the juvenile court system, dealing with delinquent, incorrigible, neglected and abused children.

LAW 6949 Civil Externship Placement (2-4). To enhance the student's understanding of the legal profession and its standards by exposing the student relevant lectures and experiential opportunities in civil litigation. Prerequisite or Corequisite: Professional Responsibility.

LAW 7510 Civil Rights (2-3). This course focuses on selected federal statutes enacted to remedy violations of federal constitutional rights. The principal Reconstruction Era statutes, 42 U.S.C. sections 1981, 1982, and 1983, are examined in depth.

LAW 7953 Client Counseling Competition (1). Students selected as members of the Board of Advocates Client Counseling Group will compete in a regional or national client counseling competition and will earn credit for satisfactory completion of their competition duties. Students, working in a team, will typically prepare for and then interview and counsel a client.

LAW 6817 Climate Change Law & Policy (2). Climate change is an urgent, multidimensional problem. The law itself is in a constant state of flux, negotiation, and renegotiation. This course is an introduction to this dynamic subject. It will cover governmental and nongovernmental action within both the domestic and international domains. It will study some of the science, but the focus of the course is on the multilateral legal responses, legislation, and other strategies – adaptation and mitigation – in relation to climate change. The course will survey the doctrine through the lens of contemporary discussions.

LAW 7813 Community Law Teaching (2-3). The course focuses on the delivery of law-related education by law students to lay persons, specifically, high school students. Law students study legal pedagogy focusing on ways to teach legal concepts to high school students and present classes about law, democracy, and human rights in local high schools.

LAW 6251 Comparative Constitutional Law (2-3). This course will analyze elements of constitutionalism, including: the legitimacy of constitution-making and constitutional amendment; limited government; the consent of the governed, majority rule and representative government; separation of powers; judicial and other institutions for constitutional review; civil, political, social, economic rights, and different conceptions of equality; and the relevance for constitutionalism of a society's economic system. The course will consider how and to what extent the elements of constitutionalism are realized in the United States and, selectively, in various countries in different parts of the world, and the factors that render different countries more receptive or more resistant to the development of a culture of constitutionalism or to any of its principal elements.

LAW 6253 Comparative Criminal Law (2-3). This course entails a comparative analysis of important issues of substantive criminal law and criminal procedure against the background of various legal systems. The analysis focuses on American and continental European law and practice. Topics include structure and dynamics of criminal trials, prosecutorial and police discretion, lay participation in the administration of criminal justice, and a comparative analysis of crucial doctrines of substantive criminal law.

LAW 6257 Comparative Environmental Law Urban Issues (3). This course offers students the opportunity to study a wide range of environmental problems in a comparative context. The course examines Brazilian legal and regulatory responses to issues such as urbanizations an its threat to biodiversity of the Atlantic Rainforest, water and wastewater management in a less developed country, the use of international and national legal instruments to improve urban air quality, ecosystem conservation, and environmental education. Brazilian experience and efforts will be compared to US and other legal responses where relevant. Students will have the opportunity to study these and other questions through in class lectures from US and Brazilian faculty, role-playing exercises, and field visits.

LAW 6254 Comparative Family Law (2-3). This course will entail the study of U.S. and other countries' domestic relations laws, including laws governing marriage, divorce, and children.

LAW 6250 Comparative Law (2-3). This course is designed to develop a technique by which lawyers trained in one system of law may be enabled to recognize, analyze and study legal problems arising in a different system. The first part is devoted to procedural and evidentiary problems faced by domestic courts when they have to decide cases involving foreign law and foreign facts. Following this, the fundamental, historically conditioned differences in approach and method between common law and civil law will be explored. Throughout the course, foreign legal institutions will be compared to our own, with the aim of gaining perspective in understanding and appraising the solutions provided by our own system.

LAW 6255 Comparative Law: Constitutions and the Judicial Process (1-4). This course introduces the major legal traditions in the contemporary world while focusing on public law and related institutions. A broad comparative and historical framework provides the basis for closer study of topics including constitutions, constitutional actions, courts, judicial review, judicial process, administrative law, and the legal profession. Special emphasis is placed on Spain and Latin America. Readings and discussion in class are supplemented with visits to Spanish legal institutions in Seville and Madrid.

LAW 6831 Comparative Property Law (2-3). This course offers the students an opportunity to study a comparative analysis of a wide array of property law issues in differing property law systems. Topics include rights in personal property, present and future interests, martial property, real estate transactions and financing, landlord/tenant law, and takings. These concepts may be examined in either a commercial or residential context. Students interested in property law generally and in transnational property transactions would benefit from an understanding of the differing property law systems. Prerequisite: Introduction to International and Comparative Law when offered on campus to FIU students.

LAW 6830 Comparative Public Law: Government and Judicial Oversight (2-3). This course focuses upon both constitutional and ordinary judicial control over government administration from civil law and common law perspectives, in unitary and federal nation-states. Emphasis will be placed upon the emergence of divergent legal control mechanisms over government different national jurisdictions. The course will offer a comparative perspective in order that the U.S. students might better appreciate how the learning of a linguistic and conceptual grid of legal reference points up front, rather than an experiential learning of law through the case law method, can affect the way in which the differently trained legal professionals approach their work. Readings and discussion in class will be supplemented with guest lectures and other activities, providing the students an enriched exposure to different legal cultures. This course meets the international graduation requirement.

LAW 6832 Comparative Succession Law (2-3). This course offers the students an opportunity to study a comparative analysis of a wide array of succession law issues. Topics may include intestacy, testamentary transfers, and probate avoidance. Students interested in succession law generally and in transnational estate planning would benefit from an understanding of the differing succession law systems.

LAW 7308 Complex Litigation (2-3). Students learn how the federal rules of civil procedure, particularly in the area of complex litigation, can become instruments of policy. Topics include class actions and multi-district litigation.

LAW 6233 Computer and Internet Law (2-3). This is a course on law in the Information Age. Topics may include patent and copyright protection for computer software, Internet copyright and trademark issues, privacy concerns, jurisdictional issues and computer crime.

LAW 6318 Conflict Management Practice - Comparative Perspective of Mediation (2-3). Designed to provide students with both a theoretical background and practical experience in mediation and mediation advocacy, with an emphasis on its practice in an international context. In recent years, individuals and their lawyers are increasingly turning to mediation to resolve disputes, and effective lawyers will need to understand the nature or conflict and to be equipped with the skills essential to effective mediation. This course will introduce students to the various mediation models and mediator styles and to the policy, practical, and ethical implications of the growing use of mediation. It also will offer the opportunity to develop and enhance the skills necessary to both mediate disputes and to represent clients in a mediation setting.

LAW 6317 Conflict Management Practice-Comparative Perspectives of Negotiation (2 -3). Provides an overview of the theory and practice of negotiation, with an emphasis on its practice in the international context. All attorneys spend much o f their professional lives negotiating with clients, co-counsel, opposing counsel, and others. Further, in an increasingly interdependent worlds, counselors will need a strong foundation in cross-cultural negotiation techniques to effectively represent their clients in local and national disputes and in of negotiation and to enhance students' negotiation skills. In addition to negotiation skills and theory, students will also be introduced to the ethical issues in negotiation.

LAW 6340 Conflicts of Law (2-3). This course deals with the special problems that arise when the facts or the parties in a case have contacts with more than one state or country. These problems relate to jurisdiction in persona, in rem and quasi-in rem; choice of the applicable law; and after rendition of a judgment, that judgment's recognition and enforcement in other states and countries. Jurisdictional and choice of law rules are studied with

special emphasis on situations involving torts, contracts and property transactions cutting across state and national boundaries. Also considered are interstate and international problems concerning marriage, divorce, and decedents' estates.

LAW 6293 Community Dispute Resolution: System Design and Implementation (2-3). This course will study responses to community conflict in different contexts and communities and will examine their impact on law and society. The course will offer students an opportunity to examine and discuss the dispute resolution design process with professionals, policy makers and scholars, and to visit community programs to observe firsthand active conflict prevention programs. Students will consider the different models in the context of the institutionalization of dispute resolution/conflict prevention in both legal and extralegal settings both in the U.S. and internationally. This course meets the international graduation and experiential requirement.

JRM 6402 Conflict Prevention and Resolution in the Workplace (3). This course, designed for the business and human resources professional, provides detailed practical guidance to help staffing firms and departments comply with employment laws, emphasizing preventive measures and techniques aimed at reducing the risk of legal liability for employment law violations. Prerequisite: Juris Master students only.

JRM 6401 Conflict Resolution: Beyond Litigation (3). This course introduces the student to the growing importance within the industry of resolving conflicts through settlement, negotiation, and mediation. Attuned to the professional needs of legal assistants, compliance officers and human resources personnel, the course primarily focuses on facilitative mediation. Prerequisite: Juris Master students only.

LAW 6425 Construction Law (2-3). This course will consider legal issues encountered in construction projects, beginning with the role of the construction lawyer and review of duties and liabilities of the construction team - Architect, Engineer, Owner, Contractor, Construction Manager. The course includes discussion of the bidding process (including bid protest and bid awards), the contracting process with emphasis on key contract provisions, contract performance issues, litigation liability and damage issues, and bonding issues.

JRM 6083 Consumer and Commercial Lending Regulations (3). This course covers those regulations that address a bank's core profit-making products, particularly consumer and commercial lending. The focus explores how banks lend, how banks structure common loan products, and how they secure collateral. This course will also survey appropriate sections of the Uniform Commercial Code, the credit process, real estate lending (including Truth in Lending), loan origination, affirmative and negative covenants, defaults, and provisions of the Bank Holding Company Act. Prerequisite: Juris Master students only.

LAW 6942 Consumer Bankruptcy Externship (6). The Bankruptcy Clinic, a two-semester course, combines classroom and practical work experience. Students may enroll for one semester with permission. They will represent clients in federal bankruptcy proceedings, as permitted by the Florida Limited Practice Act and the Rules of the United States District Court for the Southern District of Florida. The classroom component examines legal, social and ethical dimensions of bankruptcy law practice, including legal skills and knowledge in federal bankruptcy law practice, such as client interviewing, legal analysis, drafting legal documents, arguing motions, professional responsibility, and practice issues such as choice of relief under state law or the Bankruptcy Code, relief from the automatic stay, objections to discharge and dischargeability, and confirmation of a chapter 13 plan. Case developments and issues will be shared in case rounds exposing students to many ethical and practice concerns and issues. Prerequisites: 45 credit hours, Professional Responsibility, Evidence, and Bankruptcy Law. Corequisites: Professional Responsibility, Evidence, and Bankruptcy Law.

JRM 6084 Consumer Financial Services Regulation (3). This course covers those regulations that are associated with financial products and services offered by banks. The focus of this course includes the Consumer Financial Protection Act, Equal Credit Opportunity, Community Reinvestment Acts, and federal and Florida laws governing fair credit reporting, trade practices, usury, electronic funds transfers, and funds availability. This course includes an analysis of the impact of the Dodd-Frank. Prerequisite: Juris Master students only.

JRM 6010 Contracts and Business Law (4). This course provides an overview of law within the business environment. It is designed to enable the student to develop an understanding of the terms and concepts that govern basic Contract/Business Law. Prerequisite: Juris Master students only.

LAW 6572 Copyright Law (3). A basic introduction to copyright law is included in the Intellectual Property survey course. However, due to that course also covering Patent, Trademark, and Trade Secret law, coverage of copyright law is necessarily limited. This course will expose students to more in-depth knowledge of the rules governing copyright protection for architecture, fashion, and computer software; the ownership and co-ownership of copyrights; the registration and transfer of copyright interests; musicians' royalty rights; copyright interests in Latin America, Asia, Africa, and Europe; the exclusive rights to distribute, perform, and display works; theories of copyright protection the economic analysis of copyright law; and U.S. implementation of copyright treaties such as the Anti-Counterfeiting Trade Agreement, Trans-Pacific Partnership, North American Free Trade Agreement, GATT Annex on Intellectual Property, WIPO Performances and Phonograms Treaty, WIPO Audiovisual Treaty, and WIPO Copyright Treaty.

LAW 6610 Corporate and Partnership Tax (2-3). The course examines the income tax treatment of corporations and their shareholders and of partnerships and their partners arising from various transactions including incorporations, distributions, redemptions, liquidations, and non-taxable acquisitive reorganizations. Prerequisite: Federal Income Tax.

LAW 6945 Criminal Externship Placement (2-4). To enable students to gain a better understanding of the major issues involved with criminal law practice and the criminal justice system. Prerequisite or Corequisite: Professional Responsibility.

LAW 6112 Criminal Procedure: Investigation (3). This course explores pre-trial aspects of criminal procedure under the Fourth, Fifth and Sixth Amendments to the United States Constitution, with emphasis on searches and seizures, police interrogation and the right against self-incrimination, and the right to counsel.

LAW 6230 Critical Legal Theory (2-3). This course explores the relationship between law and legal institutions and ideology. It addresses questions relating to the role of law in society and whether and to what extent law serves to perpetuate existing economic and social privileges, at the expense of less powerful members of society.

LAW 6294 Cross Cultural Dispute Resolution (2-3). This course surveys the impact that culture has on dispute resolution processes. In any increasingly inter-dependent world, counselors will need a strong foundation in cross-cultural communication skills to effectively represent their clients in local and national disputes and in conflicts with a local, national and transnational character. This course will explore cultural difference in social customs, business practices, religious and ethical values, and language in the context of various dispute resolution processes through classroom discussions, simulations, and roleplays, many of which will involve domestic, foreign and international settings and will address environmental, land use, commercial, labor, family, human rights, technology and other issues. Students will develop and enhance their skills in critical thinking, listening, and cross-cultural communications and will have the opportunity to learn about and observe the use of these skills with lawyers and other professionals. This course meets the international graduation and experiential requirement.

LAW 7707 Cybersecurity and Privacy Law (3). Cybersecurity law is at the intersection of tort law, competition law, intellectual property law, the law of jurisdiction, constitutional law, and related fields.

LAW 6106 Death Penalty Clinic (4-6). This course will involve students working on death penalty cases under the direct supervision of a clinical professor and a lawyer representing a client on a capital case. Students will assist in investigations, interviewing clients and witnesses, gathering documents, legal research, drafting pleadings, assisting with strategic decisions and in developing integrated theories of defense. The emphasis will be on making a case for life. Prerequisites: 45 credits, Death Penalty, Professional Responsibility. Corequisite: Professional Responsibility.

LAW 6105 Death Penalty Law (2-3). This course will introduce a basic outline of the many components of the death penalty post Furman, including the procedural regulations placed upon litigation. Topics will include Eighth Amendment challenges (e.g., juveniles, the mentally retarded), jury sentencing, racial disparities, the prosecution function, effective defense representation, and international law. There will be a particular emphasis on the sentencing phase of death penalty cases. Prerequisites: Foundation courses completed. Corequisite: Evidence preferred but not required.

LAW 6515 Disability Law (2-3). This course explores the right of individuals with disabilities to be free from discrimination in several major aspects of life including employment, higher education, elementary and secondary education, public accommodations, and housing. The primary legal authorities covered will be the Americans with Disabilities Act, the Rehabilitation Act of 1973, and the Individuals with Disabilities Education Act. The course will consider both the traditional civil rights roots of these laws as well as the latest trends unique to disability in this rapidly emerging field of law.

JRM 6820 Discovery and e-Discovery (3). This course is an in-depth study of the principles, methods and investigative techniques utilized to "discover": that is to locate, gather, document and disseminate information. In response, to discovery, ESI (Electronically Stored Information) involves the identification, collection, preservation and production of documents. The predominance of ESI has changed the context of information exchanges between adverse parties in litigation, raising complex problems of interpretation and litigation costs. Indeed, the failure to properly comply with the rules covering the exchange of ESI and spoliation of evidence has resulted in severe monetary sanctions. The course covers the statutes and court rulings governing this burgeoning and important aspect of litigation practice. Prerequisite: Juris Master students only

LAW 6713 Domestic Arbitration (3). This course will teach the students about the nature, scope, substance, procedure, and other key aspects relevant to domestic arbitration in the United States of America. Prerequisite: LAW 5000 Contracts

LAW 6037 E Commerce (2-3). This course will consider special issues that arise when business is conducted electronically. Topics may include the jurisdiction of courts over disputes arising from on-line transactions between distantly located parties, contract formation and enforcement issues, electronic signatures, and choice of law problems.

LAW 6583 Education Law (2-3). The course focuses on educational policy and the intersection of public schools and the law. The course covers topics such as school desegregation, compulsory school attendance laws, curriculum content, the First Amendment in schools (flag salutes, school prayer, government aid to parochial schools), school financing, voucher plans, community control of schools, bilingual education, and issues surrounding single-sex schools.

JRM 6581 Education Regulation and Legislation (No Child Left Behind) (3). This course provides an understanding of the US education system and the challenges of education reform. Particular attention will be paid to the wide-reaching effects of the No Child Left Behind Act of 2001, the government's flagship aid program for disadvantaged students. Prerequisite: Juris Master students only.

LAW 6717 Elder Law (2-3). This course covers such areas as income tax provisions of special interest to senior citizens, Social Security, pension plan distributions, Medicare and Medicaid coverage, long-term care and nursing home admission, powers-of-attorney regarding health care proxies and financial/legal matters, guardianship, and ethical considerations in advising elderly clients. The emphasis is on understanding federal statutory provisions that affect the care, comfort, and financial security of persons as they live longer, to permit informed advising and sensitive planning.

LAW 6584 Election Law (2-3). This course examines federal and state law regulating the conduct of elections and the financing of campaigns. It includes aspects of federal and state constitutional law on speech, association, and equal protection; state law on who gets to vote and who gets voted for; and problems of apportionment, gerrymandering, race-conscious districting under the Voting Rights Act, and party governance. With respect to campaign finance, it considers: how much and what kinds of legal regulation are appropriate regarding parties, candidates, independents, political action committees, corporations, unions, and individuals; and the appropriate role of the courts.

LAW 7549 Employment Discrimination (3). This course assesses the major federal and state employment discrimination statutes (e.g., Title 7, Americans with Disabilities Act, Age Discrimination in Employment Act) with emphasis on the relationship among the legislative, executive, and judicial branches in the development and implementation of public policy.

LAW 6545 Employment Law (2-3). This course is a survey of basic legal and policy concepts governing the employment relationship. Subject areas include: personal service contracts, including grounds for discharge and the at-will doctrine; the collective bargaining process, including the notion of exclusivity/concerted activity, unfair labor practices, duty to bargain, impasse resolution and contract enforcement; employment discrimination, including race, sex, handicap, age, and remedial affirmative action; statutory regulation of conditions of employment, including workers' compensation, fair labor standards, safety and health and whistleblower statutes; public and private employment distinctions, including civil service systems and employment as a property right.

LAW 7575 Entertainment Law (2-3). The course will examine the various complex contractual issues facing attorneys representing clients in the entertainment industry. The course will focus on issues arising in the production, distribution and exploitation of theatrical film and television properties and will also address issues arising in the music industry. Topics will include, among others, negotiating talent services and talent management agreements; acquiring and protecting property rights to creative works; protecting rights of privacy and publicity; and negotiating and accounting for profit participation, residuals, and royalties.

LAW 6471 Environmental Law (3). This is a survey of environmental regulation, addressing the environmental policies, rights, and remedies provided by the common law and various federal statutes. The course focuses on the National Environmental Policy Act, the Clean Air Act, the Comprehensive Environmental Response, Compensation and Liability Act, and various other statutes and common law doctrines related to hazardous wastes and toxic substances. Throughout the course, students will be asked to pay attention to the regulatory and administrative structures invoked by these statutes and doctrines.

LAW 6256 Environmental Health Law and Policy (3). This course is an inter-disciplinary course examining a range of legal responses to questions of environmental health law and policy in the context of modern Rio de Janeiro, Brazil. In conjunction with graduate students in public health, students are asked to consider appropriate legal, regulatory and policy responses to a range of environmental health challenges, from the effects of pesticides on consumers to efforts to control communicable and insect-born disease. Because this course is offered abroad, students are also asked to consider the appropriate role of foreign lawyers and policymakers in formulating appropriate responses to the environmental health challenges studied. The course features extensive lecturing by Brazilian faculty drawn from the worlds of law, public health and other social sectors, and students are asked to tackle role-playing exercises in order to apply the material studied.

LAW 6621 Estate and Gift Tax (2-3). This course covers federal estate and gift taxes and their impact on gratuitous property transactions during life and at death. The course includes brief consideration of the tax on generation skipping transfers. Prerequisites: Federal Income Tax, Wills and Trusts.

LAW 6431 Estate Planning (3). This course will explore the theories and skills involved in the estate planning process. Topics include the estate planning engagement, information gathering, identification of client objectives, development of remedial and conventional estate plans, and selection of fiduciaries. Prerequisites: Federal Income Tax, and Wills and Trusts.

LAW 6222 European Legal History (2-3). This course introduces students to European legal history from the Roman era to the present day. Although focusing predominantly on the development of the continental tradition and subsequent national legal systems, the course also incorporates aspects of English legal history. The materials selected highlight the political and cultural context within which Europe formed and adapted a highly sophisticated legal science. The course provides essential background for any student interested in understanding civil law systems found throughout the world today in Europe, Latin America, and Asia.

LAW 6280 European Union Law and Policy (1-3). This course examines the doctrines, institutions and policies that define the European Union, the political, social, economic, and legal context that made it possible, and the challenges it faces. The course will explore how European Union law impacts member and foreign states, international institutions, and other regional arrangements. This course will examine different areas of influence of European Union law and its policies, including, but not limited to, antitrust, privacy, human rights, commercial, and environmental regulations. In addition, we will discuss European efforts to protect human rights, regulate the economy, labor, and immigration, fight terrorism, address climate change, and the impact of new technologies, and contrast these with the US. This course meets the international graduation requirement.

LAW 6330 Evidence (3). This course addresses the law of evidence, including hearsay, judicial notice, burden of proof, and presumptions; functions of judge and jury; competency and privileges of witnesses; and exclusion of testimony of witnesses and documents.

LAW 6591 Family Education Rights and Privacy Act (FERPA) (3). The Family Education Rights and Privacy Act is a federal law that protects the privacy of student records of any educational institution that receives federal Department of Education funds. FERPA prohibits the

federal funding of institutions that release education records without the consent of parents or eligible students. FERPA compliance is complex, because the law contains numerous exceptions applicable to certain individuals and to different situation, as well as several gray areas. The course explores these complexities and the difficulties of compliance in detail.

LAW 6710 Family Law (2-3). This course examines state regulation of sexual and marital relationships, including the conflict between the doctrines of family privacy and state intervention in the marital relationship.

LAW 6940 Family Law Clinic (4-6). Students in the Family Law Clinic will represent individuals with family law disputes. Prerequisites: 45 credits, Professional Responsibility, Evidence, and Family Law. Corequisites: Professional Responsibility, Evidence, and Family Law.

JRM 6720 Family Relations Law (3). This course introduces business and human resources professionals to the Florida Statute governing the law on family relations. Prerequisite: Juris Master students only.

LAW 6845 Fashion and Design Law (2-3). This course will introduce students to Fashion and Design Law, with a focus on the relationship between intellectual property laws, fashion, and culture. Students will learn about how intellectual property laws can, and cannot, be used to protect fashion and designs nationally and internationally. The course may also cover licensing, global legal disputes, relevant trade law mechanisms, and other related fashion law topics. No technical background is required for this course. Intellectual Property Law is highly recommended but not required.

LAW 6302 Federal Courts (3). The course examines the power and role of the federal courts as defined by the United States Constitution, federal statutes and judicial decisions. Among the topics examined are federal question, diversity and civil rights jurisdiction, habeas corpus, immunities of state and local governments from suit, and abstention.

LAW 6600 Federal Income Tax (3). This course offers an introduction to the fundamental principles of federal income taxation, particularly as applied to individuals, including the concepts of gross income, identification of the proper taxpayer, deductions, income tax accounting, capital gains and losses, deferred payment sales and non-recognition transactions. Consideration will be given to issues of tax policy and tax planning techniques.

LAW 6038 Financial Technology Law (2-3). The course will provide foundational information on various transformative technologies, their historical development and current and future uses domestically and internationally in the financial sector. Students will learn an extensive vocabulary of terms and concepts related to the creation, maintenance, controversies, regulation, and limits of these technologies. Students will apply this knowledge to discuss, analyze, and predict the outcome of legal issues related to them and government regulation surrounding them. Students will also develop competency in concepts related to cryptocurrencies, blockchain and its uses in the financial sector in the U.S. and elsewhere. This course satisfies the international graduation requirement and is part of the entrepreneurship course list of the Graduate Certificate in Intellectual Property.

LAW 7511 First Amendment (2-3). This course is an examination of the historical origins and underlying values of the rights of conscience protected in the First Amendment. The emphasis will be on the fundamental principles articulated in Supreme Court interpretations of its provisions relating to free speech, free press, and religious liberty. Prerequisite: LAW 5501

LAW 7303 Florida Civil Practice (2-3). This course entails a study of Florida civil practice from the commencement of an action through final judgment.

LAW 6403 Florida Condominium and Community Association Law (2-3). This course shall focus on the planning, structuring and operation of condominium and community associations in Florida. The course will cover issues related to community planning and the day-to-day operations of an association. The students will be provided with a sample set of governing documents for a condominium and homeowner's association before the first day of class. Simulations will be provided to the students on a weekly basis. Students will be required to draft a legal opinion advising their client on the best course of action for each simulation. Students will also draft several documents relevant to the practice of Florida Condominium and Community Association Law. Prerequisites: Property, Civil Procedure.

LAW 7503 Florida Constitutional Law (2-3). This course studies the Constitution of the State of Florida, including recent decisions of the Florida Supreme Court and analysis of current proposals for constitutional change.

LAW 5309 Florida Law and Procedure (2). Focused on differences and distinctions between state law and general common law principles in certain fundamental areas of law typically tested on the Florida bar examination. Prerequisites: Foundation courses or substantial equivalent.

LAW 6580 Food and Drug Law (2-3). This course offers a comprehensive study of the Food and Drug Administration's regulatory standards governing the production and marketing of food and pharmaceuticals in the United States. The new drug pre-market approval process, good manufacturing practice requirements, drug labeling and advertising rules, and related FDA enforcement powers and activities are covered.

LAW 6506 Foreign Relations and National Security Law (2-3). This course assesses foreign relations law, with a focus on national security law under the United States Constitution. It examines the scope of presidential powers, the role of executive agreements, treaties, and legislative powers pertaining to foreign affairs and national security.

JRM 6542 Harassment in the Workplace (3). This course, tailored toward the business and human resources professional, reviews efforts and strategies for compliance with workplace employment policies against discrimination and harassment. Prerequisite: Juris Master students only.

LAW 6720 Health Law (2-3). This is a study of numerous topics, including national health care programs, health care financing, reimbursement, licensing and accreditation, hospital organization, physician and patient autonomy, antitrust law, quality of care and medical malpractice, and ethical issues related to availability of health care and services.

LAW 6981 Immigrant Children's Clinic (4-6). Students will gain experience representing children in state dependency proceedings, appeals, and in some cases, in federal immigration proceedings. Prerequisites: 45 credits, Professional Responsibility, Evidence, and Family Law. Corequisites: Professional Responsibility, Evidence, and Family Law.

LAW 6264 Immigration Law (2-3). This course examines the major aspects of the Immigration and Nationality Act. The interrelationship between the administrative agencies empowered to execute the Immigration and Nationality Act's mandate will be studied. Major attention will be focused on the immigrant and nonimmigrant visa systems, political asylum and refugees, exclusion, and deportation of the foreign-born, and naturalization. Policy implications of the statute and judicial interpretations are addressed.

LAW 6905 Independent Study (1-2). A student may pursue an independent study project, including a research and writing project, under the supervision of a faculty member who has a special interest in the subject area of the project. The student must obtain the consent of the faculty member before registering for the course.

LAW 6080 Insurance Law (2-3). The course deals with the making, administration and interpretation of insurance contracts; governmental (including judicial) regulation of insurance; common insurance contract provisions; subrogation; excess liability of insurers; and property, life and liability insurance policies and problems.

LAW 6570 Intellectual Property (3-4). This is a survey course that introduces students to patent, copyright, trademark, trade secret, right of publicity and unfair competition law. The course is designed to give students entering a general business or civil litigation practice a thorough overview of the various intellectual property doctrines.

LAW 6015 International and Comparative Sales (3). This course entails the study of legal rules governing the international sale of goods, and a comparison of these rules with civil law and United States domestic law counterparts. The course will focus on the United Nations Convention on Contracts for the International Sale of Goods. Topics will include choice of law, contract formation, performance and breach, excuse of performance, and remedies for breach. Comparing and contrasting the three systems - international law, civil law, and domestic/common law - offers the student insight into the choices, interests, and policies pursued under each respective system of law.

LAW 6824 International and Foreign Legal Research (1-2). International and Foreign Legal Research aims to provide students with a basic foundation to competently research international, comparative and foreign law. This course will familiarize students with the basic sources of international law and the national law of key foreign jurisdictions, and help students develop the necessary skills to efficiently research transnational legal questions. Prerequisite: Cannot be taken simultaneously with LSV 2.

LAW 6551 International Antitrust (2-3). This course considers all major aspects of international antitrust law affecting United States businesses, including the Justice Department’s international enforcement guidelines, issues of extraterritorial application of United States antitrust law, and the “effects doctrine.” International enforcement cooperation and European Union antitrust enforcement will also be discussed.

LAW 6800 International Arbitration Competition (2). Students selected as members of the international arbitration competition will participate in activities geared to learn about the use of international commercial law, international investment law, and arbitration for resolution of international disputes. The competition is structured in two phases: the writing of memoranda for the claimant and the respondent and the hearing of oral argument based upon the memoranda - both settled by arbitral experts in the issues considered. The forensic and written exercises require determining questions of contract - flowing from a transaction relating to the sale or purchase of goods under the United Nations Convention on Contracts for the International Sale of Goods and other uniform international commercial or investment law - in the context of an arbitration of a dispute under specified Arbitration Rules. Since the teams and the arbitrators are usually from both common and civil law countries, students will be permitted to learn from approaches taken by lawyers from other systems. May be repeated.

LAW 6087 International Banking (2-3). This course addresses issues of banking and financial law in international private transactions. Topics include letters of credit, banking and bank secrecy regulation, efforts to combat money laundering, and currency regulation.

LAW 6261 International Business Transactions (2-3). The course provides an overview of the domestic, foreign, and international law governing international business transactions. Transactions discussed include export sales, agency and distributorship agreements, licenses, joint ventures, privatization, project finance, and foreign government debt. The course also covers U.S. regulation of international transactions in such areas as antitrust, securities, intellectual property, tax, foreign corrupt practices, and export controls, as well as the impact of North American Free Trade Agreement and the General Agreement on Trade and Tariffs.

LAW 6316 International Commercial Arbitration (2-3). The course covers the basics of the law and practice of international commercial arbitration, including: drafting arbitration clauses in international transactions and enforcement of arbitral agreements; preparing and presenting cases before arbitral tribunals, including issues of witnesses, experts, discovery and evidence; recognition, enforcement and setting aside of arbitral awards; the major international arbitral institutions and their rules of procedure; the relationship between international arbitration and national court systems; and various treaties and conventions dealing with international arbitration.

LAW 6103 International Criminal Law (2-3). The course explores international crimes, such as genocide, crimes against humanity, torture, narcotics trafficking, terrorism, and war crimes. It focuses on contemporary responses by way of international criminal jurisdiction claimed by individual states, bilateral cooperation on extradition and evidence gathering, prosecutions before ad hoc international tribunals, and the development of an international body of criminal law and procedure. Particular attention is paid to the question of jurisdiction,

including the reach of U.S. Constitutional protections to investigations and law enforcement activities overseas. Special consideration is given to international terrorism, the role of human rights in international criminal law, and the establishment of an international criminal court.

LAW 7268 International Environmental Law (2-3). This course focuses on issues including marine pollution, transboundary movement of hazardous waste, climate change, biodiversity, the relation of population and the environment, and other global and transboundary environmental problems.

LAW 6263 International Human Rights Law (2-3). This course is an introduction to the international law protecting human rights. It examines the theory and the history of the field, together with key United Nations documents. International treaty and non-treaty mechanisms for protecting and promoting human rights, including regional systems and the role of nongovernmental organizations, are covered.

LAW 6574 International Intellectual Property Law (2-3). This course provides students with an overview of intellectual property (IP) law in the global context, commencing with a survey of patent, copyright and trademarks. We will learn about the multilateral institutions that address IP issues, and study the leading multilateral IP treaties, including the World Trade Organization Agreement on Trade-Related Intellectual Property Rights, the Paris Convention for the Protection of Industrial Property, the Berne Convention for the Protection of Literary and Artistic Works, and other international agreements that facilitate the protection of IP interests in multiple countries. In addition to studying domestic and international mechanisms for the protection of IPRs, we will review current issues in International IP law and policy. No technical background is required for this course.

LAW 6987 International Law Internship (2-6). The International Law Internship is a non-paid credit-based work experience that provides a student with the ability to gain advances legal knowledge and skills within an organization, industry or functional area reflecting the student's academic and professional interests.

LAW 6265 International Litigation (2-3). This is a study of international litigation for the resolution of private and public disputes.

LAW 6295 International Organizations (3). This course aims to introduce students to the fascinating and complex world of international organizations, and situate specifically the United Nations, World Bank, and regional institutions within the context of the dynamic international legal order and world politics.

LAW 6269 International Telecommunications Law (2-3). This course surveys telecommunications laws and regulations worldwide, with particular emphasis on the United States, Europe, and Latin America. Also to be addressed are major international agreements and organizations affecting telecommunications.

LAW 7262 International Trade Law and Policy (2-3). This course concerns the national and international regulation of imports and exports. Law, policy and economics of the international trading system will be discussed. The course primarily focuses on import restrictions on goods; however, export restrictions and trade in services will also be considered. Topics include the pure theory of trade, industrial policy, the World Trade Organization and its dispute settlement process, dumping and countervailing duties, retaliation, and economic sanctions.

LAW 6381 Interviewing and Counseling (2). A study of theories and skills involved in interviewing and counseling, this course entails student performances in role playing and simulations as a primary means of instruction.

JRM 6300 Introduction to American Law (3). This is a required course for all students in the J.M. program. It provides a basic overview of the U.S. legal system. An effort is made to include broad coverage of important areas of American law, including constitutional law, criminal law and procedure, environmental and natural resources law, and family law. Students will be introduced to some of the most important cases in U.S. legal history. Prerequisite: For Juris Master Students Only.

JRM 6091 Introduction to Regulatory Compliance (3-4). This course introduces the student to regulatory compliance from a business and human resources professional's point of view. It examines Sarbanes-Oxley, HIPAA, and other regulations, and covers the most important best practices that are common across multiple pieces of legislation. Prerequisite: Juris Master students only.

LAW 6041 Investor Advocacy Clinic (4-6). Students enrolled in this Clinic will represent clients in securities arbitration proceedings. Prerequisites: 45 credits, Professional Responsibility, Business Organization. Corequisites: Professional Responsibility, Business Organization.

LAW 7940 Judicial Clinic (3-12). Students enrolled in this course will have the opportunity to combine substantive study with practical experience as a judicial extern. Students will be assigned to work (up to fulltime in limited cases) with judicial officers or trial and appellate judges in the state and federal courts. Students will observe hearings and trials, research legal issues, draft orders and opinions and review case files as assigned. A classroom component will examine the legal, political and ethical dimensions of the judicial decision-making process.

LAW 6984 Judicial Externship Placement (2-4). To enable students to serve as judicial externs with participating judges, magistrates or referees in State or Federal Courts. Prerequisites: Student must have a G.P.A. of 2.75 and a writing sample.

LAW 5210 Jurisprudence (2-3). This course is an investigation of the nature of law, and considers the differences between law and custom, morality, policy, "common sense," logic, and reason. The course considers the philosophic underpinnings of the Restatements and other codes. It further inquiries into the sources and legitimacy of law, and asks whether law must be enforced and why wrongs should be righted.

LAW 6540 Labor Law (2-3). This course is about labor union activities and other forms of concerted activity. It focuses upon an employee's right to form or join a union and the right to refrain from such activities. The course covers the representational and unfair labor practice provisions of the National Labor Relations Act, including

the formation of a labor organization and negotiation and administration of collective bargaining agreements.

LAW 6460 Land Use Planning and Control (2-3). Since the 1920s, our society has regulated urban and rural uses of land in an attempt to encourage the prudent allocation of land resources, thus this course undertakes an intensive analysis of the traditional regulatory techniques, including general and specific planning, zoning, and subdivision mapping, and relates them to the practical and political aspects of the land use entitlement process and to resolve conflicting use preferences.

LAW 6281 Latin American Private Law (2-3). Commercial transactions, business entities, interests in property, family law, inheritance, and torts are all considered part of the broad category of private law in Latin America. This course aims to provide historical and institutional background for these areas of law followed by an investigation and evaluation of present practices and developments, particularly in the Spanish-speaking countries. The ways private law in practice and in theory respond or do not respond to internal and external economic, social, and political forces will be considered. Topics to be addressed may include methods of structuring transactions, land reform, notions of civil responsibility, courts and alternative dispute resolution, and the privatization of state-owned enterprises.

LAW 6553 Law and Development (2-3). This course examines the role of law and the legal system in economic and social development, particularly in less developed countries, emerging markets, and nations in transition. It will explore how law, in its various forms, may bring about or impede development, however defined, and how development may affect or change the legal system of the country concerned. At key moments, the course will use a comparative method to explore how similar issues such as gender, child labor, industrial regulation, working conditions, corporate governance among others were treated in the United States.

LAW 6555 Law and Economics (2-3). The course gives a presentation of economic principles that are important for understanding the relationship between economics and the law. Traditional microeconomics subjects, including demand, supply, market exchange, consumer behavior, and the theory of the firm are presented with special reference to legal problems. Tools of microeconomics are used for the analysis of economic regulation of business, environmental protection, and the economics of discrimination.

LAW 6245 Law and Literature (2-3). This is a course that uses the perceptions of the novelist as a way of exploring the interactions of law with the larger society.

LAW 6282 Law and Politics in Latin America (3). This course examines a series of issues related to law and legal systems in Latin America. It draws out the interrelationship of theory and politics that constitute “lawyerly thinking” by Latin Americans. It has both a practical orientation, addressing how to understand and work with Latin American law and lawyers, and a theoretical orientation, examining how legal practices are the result of both overlapping and competing projects of social organization. This course in comparative law and politics examines a cross-section of the institutions, doctrines, and interpretive theories of Latin American codes, courts and legal commentators. As against the widely held view that Latin American law is merely imitative of foreign models or is mainly irrelevant to their societies, the course examines the strategic and programmatic function of law in the service of national governance, cultural identity, and existing economic arrangements.

LAW 6091 Law and Procedure: Federal Financial Institutions (3). The course provides an overview of BSA/AML compliance program requirements, BSA/AML risks and risk management expectations, industry sound practices, and examination procedures. Special focus on federal institutions such as the Federal Reserve.

LAW 6350 Law and Procedure: US and Florida (4). The course will function as a capstone course reviewing differences and distinctions between state law and general common law principles in certain fundamental areas of law. The differences and distinctions will focus on those areas determined to be of significance to the Florida Board of Bar Examiners, as indicated by the areas typically tested on the Florida and Multistate portions of the bar examination. Prerequisites: Offered to 3L and 4L students.

LAW 6751 Law Firm Management (2-3). This course focuses on all aspects of the formation, management, development and growth of a law firm, forms of partnership, licensing requirements, insurance, human resources and employment practice. Prerequisites: This course should be open to second- and third-year students. However, it may be more suitable for third-year students.

LAW 6043 Law of Consumer Credit (3). State and federal statutes, including the Truth-In-Lending Act, privacy and legislation on credit card practices and fees, and the legislation resulting from the 2008 financial crisis.

LAW 7064 Law of Corporate Finance (3). An advanced corporations course on legal and economic issues involved in corporate financing decisions, covering a broad range of issues including basic accounting, valuation of corporate entities and their securities, corporate capital structures including the relationship of corporate debt to equity and the impact of leverage, dividend and investment policy, and new financial instruments such as derivatives and structured finance. Prerequisite: Business Organizations.

LAW 6753 Law of Legal Malpractice (2-3). This course will examine the bases for legal malpractice as well as the interplay between the law of legal malpractice and ethical obligations to which lawyers are held by the Lawyers’ Code of Professional Responsibility and the ABA Model Rules of Professional Conduct. It will explore the basic elements of the tort of legal malpractice, the creation of the attorney-client relationship, and applicable defenses. A major emphasis of the course will be on the prevention of malpractice, and we will examine common mistakes made by practicing attorneys which give rise to malpractice claims. Overall, the course will seek to instill a commitment to achieve the highest ideals of the legal profession.

LAW 6823 Law Practice Technology (2-3). Technology and its use is changing the practice of law. Law Practice Technology will expose students to the theory and use of technology in legal practice, examining the role different technologies and their use in supporting legal practice and

providing legal representation. This course will examine litigation technologies; document management; practice management; electronic discovery; project management; eLawyering and virtual law practice; web design basics; and the ethical, security and privacy issues related to the development and use of technology in legal practice. Prerequisite: Civil Procedure.

LAW 6950 Law Review: Board of Editors (1-2). Students selected as members of the Board of Editors of the Law Review may earn credit for satisfactory completion of their Board duties. As members of the Board of Editors, students will solicit, select, edit and publish articles submitted by lawyers, judges, and professors from across the country. The Board of Editors also may organize and solicit participants for symposia on legal topics of current interest and publish the papers presented at the symposia. Student editors will supervise the preparation of student comments by new members of the Law Review and will select and edit those comments for possible publication. Student editors will train new Law Review members on proper citation format and cite-checking requirements for articles published in the Law Review. Student editors will be responsible for all other aspects of the Law Review, including obtaining subscriptions, managing its finances, working with the publisher and others in the printing and distribution of the Law Review. The professor may designate this course as either pass/fail or as a letter graded course.

LAW 6956 Law Review: Senior Members (1-2). Senior Members of the Law Review may earn credit for satisfactory completion of their duties. Senior Members will assist the Board of Editors in all aspects of the Law Review, including cite checking articles to be published in the Law Review. The professor may designate this course as either pass/fail or as a letter graded course

LAW 6821 Law, Science, and Technology (3). To examine the various ways in which the legal system interacts with science technology, including the impact of the legal system on evolving fields of science and technology and the influence of these fields on the legal system. Each class will focus on a different theme involving the interaction of law, science and technology, using a specific case study. Prerequisites: First year curriculum.

LAW 6957 Law Review: Staff Members (1-2). Staff Members may earn credit for satisfactory completion of their duties. These student members are required to write a comment of publishable quality, complete instruction on cite checking, and assist the Board of Editors and Senior Members in cite checking and any other assigned duties needed to publish the Law Review. The professor may designate this course as either pass/fail or as a letter graded course.

LAW 6919 Law Review: Staff Members II (1-2). Student members may earn credit for satisfactory completion of their duties as advanced members of FIU Law Review. The student members are required to complete instruction on cite checking and assist the Board of Editors, and Senior Members in cite checking and any other assigned duties needed to publish the Law Review.

LAW 6780 Legal Analysis (1-2). This course will advance students' legal analysis, legal writing and test taking skills. Students will address legal methods useful in developing a full understanding of doctrinal rules and of how those rules operate within legal analytical frameworks. There will be regular practice exams, in-class writing assignments and individual conferences.

JRM 6710 Legal Analysis and Writing (3). Students in this required course are introduced to the art of analytical legal writing. Students will learn to analyze cases, statutes and other authorities. The course emphasizes student development in the following skills: organizing the analysis of legal issues logically and coherently; expressing written legal analysis clearly, concisely, and effectively; developing and defending legal arguments, both in writing and orally; performing basic legal research; drafting selected legal documents; and using proper citation form. The writing exercises promote the students' awareness and appreciation of relevant ethical standards. Prerequisite: Juris Master students only.

LAW 6941 Legal Clinic (3-7). Students enrolled in the Clinic will represent actual clients in either a litigation or transactional context, as permitted by the Florida Limited Practice Act. The course is open only to students who have completed at least 60 credit hours of law school course work. Prerequisites: Professional Responsibility, Evidence (for the litigation clinic), Trial Practice (for the litigation clinic), and Business Organizations (for the transactional clinic).

JRM 6541 Legal Developments in Disability Law (3). This course covers the fundamentals of disability law with an emphasis on resources, evaluations, and appeals processes for the business and human resources professional. The main statutory focus will be on the Americans with Disabilities Act. Prerequisite: Juris Master students only.

JRM 6580 Legal Developments in Education (4). This course presents the business and human resources professional with the emerging legal developments and regulatory standards governing such issues as liability in student attacks and the merits and constitutionality of drug testing students in school. Prerequisite: Juris Master students only.

LAW 6226 Legal History (2-3). This course deals with the history of the United States viewed through aspects of the law, the legal profession, legal education, and the evolution of constitutional principles. The focus of this course is on the background and context of the growth of American law and legal institutions, and on the ways in which law and legal concepts have been centrally important in American history. Major emphasis is given to the period of the Revolution, the growth of positivism, the Gilded Age, the Progressive Era, the New Deal, and the Cold War period.

JRM 6545 Legal Issues in the Workplace (4). This course, designed for business personnel and human resources generalist, covers the basics in recognizing and managing legal issues within the workplace. Line managers and supervisors would also benefit from a working knowledge of laws affecting the workplace. Prerequisite: Juris Master students only.

JRM 6352 Legal Procedure and the Legal System (2-3). This course provides an overview of the major principles and functions of the legal system. It introduces students to criminal procedure, civil procedure, and other rules and

processes governing litigation and transactional law. The course will select and follow the typical procedural trajectory of a major case. This course is the substantive “external” complement to the "internal" procedural course, LAW 6822 Litigation Management and Legal Technology. Prerequisite: Juris Master students only.

LAW 5781 Legal Reasoning (2-3). This course is a skills-based class offered as a two or three credit class during the spring semester. The course is designed to teach and reinforce skills relating to legal analysis and academic performance, including skills relating to legal problem solving and written expression. Ideally, class size is limited to allow for assessment and feedback.

JRM 6070 Regulation of Health Insurance (3). This course will explore the obligations of large and small employers with respect to health insurance. The ACA includes a "shared responsibility" provision, with potential penalties for employer noncompliance. The course covers employer liability under the ACA and the specific ways the Act will impact access, quality, costs, and tax implications. The course provides a general understanding of the US health care system and the challenges of health care reform in relation to employer compliance under the Act. Prerequisite: Juris Master students only.

LAW 6795 Legal Skills and Values II-III (4). Legal Skills and Values II-III (LSV: II-III) combines elements of both LSV II and LSV III, and runs parallel to these courses in the three-course LSV sequence. The course continues the foundational LSV I focus on research analysis, and communication, but shifts to persuasive and transactional advocacy as it stimulates "real world" legal experiences. Prerequisites: LSV Director or Co-director approval.

LAW 6797 Legal Skills and Values III (2-3). This course will advance students’ legal skills in analysis, research, objective writing, persuasive writing, and oral communications, and also raise new professionalism issues. Students will interview and counsel a client regarding a dispute and then research the legal issues raised by the dispute. Students will write a Complaint or Answer, a Demand Letter or Response Letter, an objective memo to a senior attorney describing the legal issues and a proposed course of action, and then prepare or respond to discovery requests. Students will mediate with opposing counsel to resolve the dispute, and ultimately will write a brief in support of their client’s position.

LAW 7808 Legal Skills & Values IV (1-3). Students enrolled in this elective course will build upon and hone the objective and persuasive writing skills they learned and began developing in LSV I, LSV II, and LSV III. The course is designed to help students evaluate their reading, comprehension, analysis, and writing skills and diagnose any problems they may have in these areas. The course goal is to help excellent writers become exceptional writers and to help average- and below average writers become excellent writers. Further, during the course students will conduct legal research and deliver short presentations regarding their work, thus enhancing their legal research and oral communication skills. During the initial segment of the course (Diagnostic Assessment), students will work with the professor and class to critically evaluate their past writings (prior briefs and papers) to assess their strengths and weaknesses. During the second segment (Transactional Work), students will critically read and edit a contract and write a client letter discussing essential elements of the contract. In the third segment (Judicial Opinion Writing), students will research and write a short judicial opinion. In the final course segment (Scholarly Writing), each student will research and write a short article suitable for publication in a magazine such as The Florida Bar Journal. Pre-requisites: LAW 5792, LAW 5793, LAW6797.

LAW 6806 Legal Skills and Values: LL.M. (2-3). This course provides graduate law students with essential training on legal research, writing, and analysis to understand common documents found in the practice of law in the United States. It covers basic aspects of professional communication, including legal correspondence and memorandum writing.

LAW 6523 Legislation (2-3). This course entails a study of the legislative process.

JRM 6350 Litigation Management and Legal Technology (3). The course covers the litigation process from the pre-suit investigation to the appeal. The student will acquire the knowledge and the skills to effectively manage the workflow of major litigation for the attorneys at each phase, with an emphasis on leveraging legal technology to create efficiencies for the attorney and the client. Important topics such as litigation principles, lawyer and client relationship and ethics, gathering evidence, depositions, preparation for a civil trial, structure of a civil trial, judgments, appeals, and more are discussed in detail. Prerequisite: Juris Master students only

LAW 6531 Local Government Law (2-3). The powers, limitations, and special legal rules concerning local governments are studied in this course. Emphasis is given to Florida problems concerning counties, cities, and special districts.

LAW 6383 Mediation (3). Students will gain an understanding of the practice of mediation from the perspective of a lawyer representing a client, along with acquiring the skill to focus on the interactions of the participants.

LAW 7959 Mediation Competition (1). Students selected as members of the Board of Advocates Mediation Group will compete in a regional or national negotiations competition and will earn credit for satisfactory completion of their competition duties. Students, working in a team, will typically prepare and then mediate an agreement on multiple issues.

LAW 6723 Community Lawyering Clinic (2-6). The Medical-Legal Partnership Clinic is a legal services delivery model designed to improve legal client/patient outcomes by addressing social determinants of health (poverty, education and employment, income, housing, legal status, personal and family stability, etc.) Under the MLP Clinic, supervised students-lawyers will provide legal assistance to underserved, low-income households in association with community partners. Prerequisites: 45 credits, Professional Responsibility, and one of the following: Health Law or Administrative Law or Disability Law or Immigration Law. Corequisites: Professional Responsibility, and one of the following: Health Law or Administrative Law or Disability Law or Immigration Law.

LAW 6725 Medical Malpractice Law (2–3). Medical Malpractice Law examines legal claims that may be brought against physicians, hospitals, and other allied health professionals and organizations, as a result of the provision of medical and/or health services, or as a result of relationships with medical and health services providers. The course will examine the duties of care imposed by law on medical and health care providers, legal remedies for breach of the standards of medical care, defenses to legal claims, and medical ethics. Recommended but not required as a prerequisite: Evidence Law.

JRM 6110 Medicare and Medicaid Law (3). This course provides students with a fundamental understanding of the Medicare and Medicaid programs and the practical skills for using this information to serve their clients. The course examines the purpose and design of Medicare and Medicaid; the Medicare and Medicaid vocabulary; and the criteria for eligibility and enrollment in these programs. Prerequisite: Juris Master students only

LAW 7065 Mergers and Acquisitions (2-3). This course will approach the study of major corporate restructuring from both an academic and a practice perspective. Included in the course will be a review of underlying economic objectives and sources of efficiency gains in restructuring ownership interests in publicly financed firms and factors affecting choice of transaction form. Major emphasis will be on the corporation law and securities laws pertaining to M&A transactions. Both hostile and friendly deals will be covered. More briefly addressed will be tax law, competition law and executive compensation issues encountered in such transactions. Prerequisite: Business Organizations.

LAW 6741 Military Justice (2-3). Course presents students with the development of Western military justice systems and reasons for having unique justice systems for the military; provides an overview of the actors and institutions in the American military justice system; illustrates the military's unique criminal offenses and defenses, rights of the accused, Rules for Courts-Martial, Military Rules of Evidence, rules for professional responsibility, all set in the context of a mock courts-martial.

LAW 6297 NAFTA and Other Regional Trade Agreements (2-3). This course analyzes the legal structures of non-global freer trade agreements, including but not limited to NAFTA. It reviews GATT Article XXIV and the economic and policy debate (global vs. regional trade arrangements); discusses key aspects of NAFTA, including industrial development, investment dispute and other disputes; and analyzes legal and policy issues relating to the negotiation of a Free Trade Agreement of the Americas (FTAA). Other regional trade arrangements, including the Southern Cone Common Market (Mercosur), are also considered. A focus of the course is efforts in NAFTA to deal with environmental and labor concerns.

LAW 6507 National Security Law and the Constitution (2-3). The goal of this class is to examine the growing body of national security law under the Constitution.

LAW 6470 Natural Resources Law (3). Natural Resources Law will cover the laws regulating the exploitation of natural resources. Major topics include Wildlife and Biodiversity, Marine Resources, Public Lands, Water, Rangelands, Oil and Gas. Prerequisite: Completion of 1L year.

LAW 6313 Negotiation (2-3). The course is designed to provide students an understanding of the history, process and practice of negotiation through role-plays, simulations and life experiences.

LAW 7954 Negotiation Competition (1). Students selected as members of the Board of Advocates Negotiations Group will compete in a regional or national negotiations competition and will earn credit for satisfactory completion of their competition duties. Students, working in a team, will typically prepare and then negotiate an agreement with opposing counsel.

LAW 6061 Non-Profit Organizations (2-3). This course will address the legal regulation of nonprofit organizations from the perspective of state law and federal tax law. Topics to be covered include: the theoretical rationales for the nonprofit sector and federal tax benefits; formation and dissolution of nonprofit corporations and charitable trusts; operation and governance, including the legal duties and liabilities of directors and trustees; requirements to qualify and maintain federal tax-exempt status; the distinction between public charities and private foundations; the tax consequences of business and investment activities of nonprofits; basic charitable giving strategies; and regulation of charitable solicitation.

LAW 7475 Ocean and Coastal Law (2-3). This course considers aspects of land use law, water law, natural resources law, property law, and constitutional law from the perspective of the special needs of the coast. The course examines the common law and major acts protecting coastal zones and natural resources, and includes discussion of the important interrelations of water, habitat, wildlife, and land use, as well as issues concerning jurisdictional conflicts.

LAW 6086 Offshore Financial Centers: Use and Abuse (3). This course examines both legitimate and illegitimate uses of OFCs with reference to detailed case studies drawn from the local experience related to corruption, drug money laundering, terrorist financing, sanctions, and tax evasion.

LAW 6573 Patent Law (2-3). This course provides in-depth coverage of substantive trade secret law and patent law. In addition, it covers aspects of patent prosecution practice and procedure. Prerequisite: Intellectual Property Law.

LAW 6031 Payment Systems (2-3). This course will survey the uses of different payment mechanisms (negotiable and nonnegotiable instruments, credit cards and electronic funds transfer and wire transfer systems) in both credit and cash transactions. The course will consider allocation of risks for fraud, countermands, defenses on the underlying contract, mistake, timeliness, and unauthorized payments. In each case the allocation of risks in connection with different payment mechanisms will be considered, along with whether these allocations should be the same or different for each mechanism. The course will focus on Articles 3 and 4 of the Uniform Commercial Code and, as time permits, consider letters of credit under U.C.C. Article 5 and the International Chamber of Commerce Uniform Customs and Practice. Special emphasis will be given to techniques of statutory

analysis, commercial counseling, and a rethinking of present rules, especially in the light of the revision of Articles 3 and 4. The impact of federal legislation on the state payments law (U.C.C. Articles 3, 4, and 4A) may also be treated.

LAW 6541 Pension and Employee Benefit Law (2-3). This course will introduce students to the basics of federal pension law, including the employee benefit provisions of the Internal Revenue Code and the labor law portions of ERISA (the federal statute governing employer-provided plans). The course will provide a basic overview of the tax principles of deferred compensation, and an introduction to the tax requirements for qualified pension plans. It will also cover the large body of federal case law addressing such issues as ERISA preemption of state law and its impact on employer-provided health benefits, age and sex discrimination in pension benefits, and other issues. Prerequisites: Federal Income Tax; Corporate and Partnership Tax.

LAW 6361 Pre-Trial Practice (2-3). This course covers trial preparation from client interview to the courthouse steps. The course considers theory of the case, fact investigation, pleadings, discovery, and disclosure (depositions, issues, requests for production), motion practice, settlement conferences and negotiations, final pre-trial preparation, and professionalism values.

LAW 6702 Products Liability (2-3). This course is a survey of the history, growth, and development of the law regarding injury to persons and property resulting from defective products. It will examine the various legal theories of fraud, express warranty, implied warranties of fitness and merchantability, negligence, and strict liability.

LAW 7285 Profesión Jurídica Comparada (Comparative Legal Profession) (2-3). This course offers students an opportunity to strengthen their oral and written communication skills in Spanish, to acquire and use legal concepts, and develop analytical skills for potential use in their future legal practice. The course is meant to benefit students with varying levels of Spanish language proficiency, up to and including native Spanish speakers. The course may focus on legal terminology, concepts, and processes in one or more legal fields, jurisdictions, or topics. Assignments may include client simulations, written and oral advocacy, negotiations with colleagues and the comparative analysis of legal concepts. Ideally, the students enrolled in the course already have an intermediate level of Spanish, including familiarity with essentials of Spanish grammar and the ability to write and engage in intermediate verbal communication, but the professor will determine prerequisite Spanish-language proficiency for admission to the class. This course meets the international graduation requirement and depending on its specific methodology and content may meet the experiential graduation requirement.

LAW 6750 Professional Responsibility (3). This course will examine the law of professional responsibility, including professionalism issues and malpractice risk management, with significant emphasis on the rules of ethics governing lawyers and judges. The objective is to give students an appreciation for the challenges they will face as practitioners, and a working knowledge of the principles of professionalism and the ethics rules that they will use in their daily practices.

LAW 6754 Professional Identity and Well-Being Practices (1-2). To enhance a law student's understanding of the legal profession through an intentional exploration of the values, guiding principles, and well-being practices considered foundational to the practice of law. Prerequisite: Recommended - Professional Responsibility.

LAW 7942 Prosecution Innocence Project (2). The prosecution innocence project (PIP) is a one semester, two credit experiential learning course that provides an opportunity for students to participate in a thorough and actual review of the prosecution file, including arrest and booking reports, general offense reports, supplemental reports, witness statements, law enforcement interviews, jail calls, 911 calls, lab reports, depositions, photographs, and any other items of note. Students will develop an understanding of the many components of criminal investigation and trial and post-conviction proceedings and hone research and writing skills, as they write legal memoranda on a variety of subjects including competency of counsel, forensic science, Brady/Giglio evidence, legalities of police investigations, and post-conviction remedies.

JRM 6120 Public Health and The Law (3). This course introduces the student to the regulation of health professionals practicing in Florida. In particular, the course examines the different ways the law governs regulated and self-regulated conduct within the Florida health care system. Prerequisite: Juris Master students only.

LAW 6260 Public International Law (2-3). This course explores advanced issues of international law. The goal is to understand how international law operates in practice. Special attention will be devoted to the acceptance and application of international law by United States courts. Topics include the process of international dispute resolution, the application of domestic law extraterritorially, state responsibility to aliens and foreign investors, and sovereign immunity.

LAW 6234 Race and the Law (2-3). This course will consider contemporary theories of law and questions of racial justice, including the relationship between developments in the social sciences on the nature of race, racism, prejudice and discrimination, and the interpretation of constitutional and statutory protections against racial discrimination.

JRM 6030 Real Estate Law (3). This course takes an interdisciplinary and practice-oriented approach to real estate transactions, covering land transfers, mortgage law, and selected topics such a usury and mechanics' liens. Students will study selected tax, environmental and federal securities laws issues in the context of real estate transactions. Prerequisite: Juris Master students only

LAW 6426 Real Estate Transactions (2-3). This course takes an interdisciplinary and practice-oriented approach to real estate transactions, covering land transfers, mortgage law, and selected topics such as usury and mechanics' liens. Students will study selected tax, environmental and federal securities laws issues in the context of real estate transactions.

LAW 6267 Refugee and Asylum Law (2-3). This course will examine international and domestic refugee and asylum law. Close attention will be paid to the definition of

"refugee" in international conventions and under U.S. law, with emphasis on such topics as: what constitutes persecution, what forms of persecution support an asylum claim, and what conduct renders an applicant ineligible for asylum. The course will also analyze overseas refugee processing and procedure for adjudicating asylum claims in the U.S.

JRM 6100 Regulations of Medical Institutions (4). This course, the complement of LAW 6863 Public Health and the Law, introduces the business and human resources professional to the regulation of hospitals and medical facilities. The course focuses on some of the practical problems arising in the context of health care regulation and compliance. Prerequisite: Juris Master students only.

LAW 6305 Remedies (3). The course focuses upon the nature and scope of relief that a court may grant a party who has established a substantive right. Topics include judicial remedies such as damages in tort and contract cases, restitution, punitive remedies, declaratory relief, and coercive remedies in equity.

JRM 6543 Remedies in the Workplace (3). This course, designed for the business and human resources professional, provides an overview of the workers' compensation laws that protect people injured or disabled on the job. The same laws ensure that the families of workers killed due to work-related accidents or illnesses are provided with benefits. Prerequisite: Juris Master students only.

LAW 6010 Sales (2-3). This course covers contracts for the sale of goods under Article 2 of the Uniform Commercial Code. Some consideration will also be given to leasing of goods under Article 2A of the Code.

LAW 6051 Secured Transactions (2-3). This course covers the creation, perfection, and enforcement of security interests in personal property under Article 9 of the Uniform Commercial Code, including priorities among conflicting interests in the same property and choice of law problems. Some discussion of bankruptcy law as it affects the interests of secured creditors may also be included.

LAW 6561 Securities Law Enforcement (2-3). Course is designed to the study of federal statutes, case law, and regulations, which are designed to protect investors from fraud. Prerequisites: Securities Regulations, and The Law of Corporate Finance. Corequisite: Business Organizations.

LAW 6560 Securities Regulation (2-3). This course is a comprehensive survey of the statutes and regulations governing the distribution of securities, trading of securities on the stock exchanges and over-the counter markets, the regulation of broker-dealers, and the growing role of institutional investors. Primary focus is placed upon the Securities Act of 1933 and the Securities Act of 1934, with limited attention to state “Blue Sky” securities legislation. Prerequisite: Business Organizations.

LAW 6947 Semester in Practice Program (8-12). The semester-in-practice practicum is a full-time immersion course providing third and fourth year students with full time practical experience for an entire semester in an off site externship. Prerequisites: above 60 credits, cumulative GPA of 3.10, and Professional Responsibility. Corequisite: Professional responsibility.

LAW 6936 Seminars (2-3). Seminars provide an opportunity for intensive analysis of legal and policy issues in a specialized area of study, culminating in a major research paper or a series of shorter papers. They require a considerable investment of time by students and faculty, and a corresponding responsibility for thorough preparation and participation by all members of the seminar. Some seminars may also include a final examination.

LAW 6881 Smart City Applications and Governance (3). This explores the legal relationship between humans and human-like machines, such as driverless cars. It also examines the legal issues related to AI-controlled city infrastructure such as traffic signals and neural network architectures (i.e., networks that contain instructions that train and interpret AI models). The course implicates design thinking and the design thinking process as core requisites to understanding the promise and limits of smart city applications and governance. The course reviews the recent and pending research within this field. This course is open only to students enrolled in the MS in the Law of Technology program. Corequisite: Foundation courses in MS Law of Tech

LAW 7930 Special Topics in Law (1-3). This is a variable content course intended to deliver content not covered by courses listed in the COL catalog. It may involve topics referred to cutting-edge or novel legal phenomena, topics addressing current events, or taught by special faculty. The course may be repeated if there is no duplication of subject matter. Depending on the topics covered, the course may fulfill the international, dispute resolution, experiential, or other graduation requirement.

LAW 7844 Sports and Entertainment Law (3). This course will focus on the application of various legal doctrines to sports activities, and the various complex contractual issues facing attorneys representing clients in the entertainment industry. Representative topics include regulation of amateur athletics, public regulation of sports activities, legal relationships and structures in professional sports, legal issues involved in representation of professional athletes, and issues arising in the production, distribution and exploitation of theatrical film and television properties and in the music industry.

LAW 6480 Sports Law (2-3). This course will focus on the application of various legal doctrines to sports activities. Representative topics include regulation of amateur athletics, public regulation of sports activities, legal relationships and structures in professional sports, and legal issues involved in representation of professional athletes.

LAW 7660 Tax Policy (2-3). This course will evaluate topics such as the choice of a tax base (income or consumption), rate structure (flat or progressive), taxable unit (individual or family), and method of government spending (direct or through the tax system via tax expenditures) against the tax policy norms of equity, efficiency, and administrability to determine how well the present tax system satisfies these norms. Prerequisites: Federal Income Tax; Corporate and Partnership Tax.

LAW 6585 Telecommunications Law (2-3). This course introduces the regulation of the telecommunications industry. Once dominated by a single, highly regulated producer (AT&T), the industry is now among the most

dynamic in the nation. The course will analyze and assess rules promulgated by Congress and the Federal Communications Commission that seek to transform existing monopoly markets into competitive industries.

JRM 6700 Torts and Criminal Wrongs (3). This course introduces and explores the basis for civil and criminal liability, including the liability for negligence for intentional wrongs, and for liability without fault (strict liability). Doctrines covered include duty, breach of duty, causation, damages, and defenses, as well as elements of and defenses to criminal liability in the compliance context. Prerequisite: Juris Master students only.

LAW 6473 Toxic and Environmental Tort Litigation (2-3). This course examines tort litigation, both substantively and procedurally, arising from environmental exposure to toxic substances, with emphasis on the legal theories available (e.g., nuisance, trespass, strict liability, and negligence) and the issues that present unusual challenges in such litigation for both the parties and the legal system (e.g., causation, expert testimony, damages, and statutes of limitations).

LAW 6576 Trademarks and Geographical Indications (2-3). This course will introduce students to the law of trademarks and unfair competition. Trademark law aims to protect against consumer confusion and the appropriation of commercial goodwill. Trademarks can have tremendous value in a variety of industries, ranging from food and agriculture to fashion and entertainment. Students will learn about acquiring, prosecuting, and enforcing trademark rights in the business context. In addition, the course will cover the theoretical underpinnings of trademark protection and evaluate current issues related to trademark law domestically and internationally. This includes a consideration of the relationship between trademarks and geographical indications. No technical background is required for this course. Intellectual Property Law is recommended but not required.

LAW 6034 Transnational Commercial Law (1-4). This course offers an overview of three foundational areas in the field of commercial law: sales, payment systems and negotiable instruments. It presents the student with the core doctrines and issues relating to the Uniform Commercial Code in the United States. As such, it complements the basic series of commercial law courses in U.S. law schools. Additionally, the materials introduce the student to the Spanish law in all these same areas. Spanish doctrines and relevant issues are presented in tandem with the U.S. legal materials. Comparing and contrasting the two systems offers the student greater insight into the choices, interests and policies pursued under each respective system of law. Additionally, the course will examine the European Union’s proposed regime for unified rules of commercial law across the Continent. Drawing on different sets of both unified and national rules in this area of law, this course presents a truly transnational view of the field of commercial law and its underlying concerns.

LAW 7225 Transnational Disputes: Practicing Law in the Era of Globalization (3). This course is designed to prepare future lawyers to deepen their knowledge and develop effective strategies to defend and litigate/arbitrate disputes involving multiple jurisdiction and issues. The successful 21st century lawyer can no longer practice in a jurisdictional silo. A dispute in one part of the world can have long-lasting repercussions on an individual, company, or state thousands of miles away. In today's legal market, clients expect—and demand—that their attorneys be familiar with legal processes and laws throughout the world, and that they possess the skills necessary to develop an effective strategy to defend and litigate their interests at any time and place. In short, a successful 21st century lawyer must know how to handle and successfully resolve international disputes. This course is designed to prepare students for this reality.

LAW 6809 Transnational Representation and Advocacy (3). This course will provide students the opportunity to hone their research, writing and advocacy skills in the realm of transnational dispute resolution from the perspective of the advocate. The course will examine the different substantive and procedural legal frameworks available in a variety of transnational fora, including international courts, arbitral tribunals, inter-governmental entities, special commissions, and national courts. The course will also consider the most effective techniques for researching and drafting memoranda, briefs and pleadings before foreign and international tribunals; and will help the students to become effective oral advocates both in the context of international student competitions and their future professional careers. Finally, the course will stress the importance of professional ethics and discuss the challenges faced by legal professionals in that respect. This course has no co-requisites or pre-requisites.

LAW 7951 Trial Advocacy Competition (2). Students selected as members of the Board of Advocates Trial Advocacy Group will compete in a regional, national, or international trial advocacy competition and will earn credit for satisfactory completion of their competition duties. Students, working in a team, will typically prepare for and participate in a trial, which typically will include the delivery of an opening statement, the examination of witnesses, the introduction of evidence, and the delivery of a closing statement.

LAW 6363 Trial Advocacy (2-3). The focus of this course is on trial tactics and techniques. All students participate as counsel and perform the assignments. All phases of an actual trial are examined, including direct and cross-examination of witnesses, and opening and closing arguments. Co-requisite: Evidence.

LAW 7200 United States Law I: Methods, Sources, and Structure (2-3). This course introduces graduate students to the United States legal system. It covers fundamental aspects of legal analysis and argumentation, the sources of law, the reading of cases and statutes in the common law tradition, and the structure of the legal system in the United States today. It addresses general approaches to constructing legal arguments, the use of primary and secondary sources in the United States, the development of United States law, the role and function of various institutions in the context of federalism, the legal process, the legal profession, and legislative and administrative developments.

LAW 7804 United States Law II: Scholarship and Perspectives (2-3). This course introduces graduate law students to scholarly and theoretical techniques and approaches used in the United States to understand law. It covers basic aspects of academic and scholarly writing in

law, perspectives on law from different theoretical schools, and the tools that legal academics use in thinking about and writing about law. The course will survey different kinds of academic writing, with emphasis on the law review article. It will also discuss sociological jurisprudence, legal realism, law and economics, and critical legal studies.

LAW 6492 Water Resources Law (2). Water Resources Law will explore water's distinctive character as property that is both public and private, and individual and common. The course will begin with an overview survey of the general legal issues regarding historic water allocation and information regarding current water uses in the United States. First we will study the Riparian system of allocation. We will conclude that study with an examination of water resource issues facing Florida. We will then examine western prior appropriation systems. We will also conclude that study by examining the dispute among users of the Colorado River. We will conclude the course by studying issues related to groundwater and the impact of the Clean Water Act on water resources. Prerequisites: None, although Environmental and Administrative Law is helpful.

LAW 6116 White Collar Crime (2-3). Using the vehicle of federal investigation and prosecution of white-collar crime, this course will explore the interplay of different fields of law and of legal standards and administrative discretion — features common to many types of transactional practice. The materials considered will be chosen from the fields of substantive criminal law, criminal procedure, sentencing, administrative law, evidence, corporate law, and professional responsibility. Topics considered will include entity criminal liability, substantive federal crimes (e.g., mail fraud and RICO), grand jury investigations, administrative agency subpoena authority, parallel civil and criminal proceedings, application of the self-incrimination and lawyer-client privileges, federal sentencing guidelines (for individuals and entities) and forfeitures. Considerable attention will be given to Department of Justice policies and strategies utilized by counsel representing witnesses, targets, and defendants. Prerequisite: Criminal Procedure.

LAW 6430 Wills and Trusts (3-4). The intergenerational transfer of wealth in the United States is controlled by both statutory and common law principles. Competing views of the individual’s freedom of disposition and state power both to channel and to tax property have led to an interesting and complex array of legal devices and institutions. These include statutory intestacy and elective share provisions, wills, and trusts. Related topics to be addressed will include planning for incapacity, future interests in property, powers of appointment, life insurance, and introductory aspects of trust and estate administration.

LAW 6235 Women and the Law (2-3). The course considers the legal treatment of sex differences in the construction and legitimization of the social status of women and men. Topics include rape, sexual harassment, incest, battery, sexuality, economic segregation, prostitution, and pornography. Central concerns to be pursued include the desirability of sex-neutral legislation and adjudication, the meaning for women of the legal distinction between the public and private spheres, competing theories of the origins of sex roles, and the differences between and similarities of traditional morality and a feminist critique of power.

LAW 6236 Women and the Law: Comparative and Global Considerations (3). The course will consider the role of law in the lives of women from global and comparative perspectives. Topical coverage will include the role of international law on the lives of women by considering certain UN conventions relating to the status of women, as well as with respect to certain global issues which affect the lives of women in a particular sense (e.g., immigration policies and practices, including asylum and refugee law, and human trafficking). The comparative law component will consider and compare legal approaches to matters relating to women's private and domestic life choices and options, such as laws relating to family law, reproduction, and wage and labor gender-based disparities.

LAW 7955 World Arbitration and Mediation Review (2). This course offers law students an opportunity to engage in research, writing, editing, and publishing scholarly works in the fields of domestic and international arbitration and mediation.

LAW 6705 Worker’s Compensation (2-3). This course surveys the statutory no-fault insurance system that displaces tort law in the workplace. Class discussion will center on the scope of coverage and benefits under compensation legislation.

College of Law

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Financial Aid **Marissa Miles**
Geriatrics Clerkship **Jorge Mora**
Grades and Records **Sachay Liriano**
Graduate Certificate Program **Barbra Roller**
Graduate Certificate Program **Tracey Weiler**
Human Anatomy Lab **Ferdinand Gomez**
Human Resources **Natacha Alonso**
Media and Community Relations **Ileana Varela**
Institute NeuroImmune Pharmacology **Madhavan Nair**
Institutional Design and Training (Interim) **Stephanie Tadal**
Internal Medicine Clerkship **Amalia Landa-Galindez**
International Affairs **Ferinelys Cabrera**
Laparoscopy and Minimally Invasive Section **Juan Carlos Verdeja**

Leon Center for Geriatric Research and Education **Paulo De Hendonca Chaves**
Medical Director, ACC **Ruben Caride**
Medical Director, HHS **Frederick Anderson**
Medical Director, SHS **Saara Schwartz**
Medical Education, Nicklaus Children's Hospital **Jefry Biehler**
Medical Director, MPAS **Ramiro Perez**
Medical Library **Luda Dolinsky**
Medical Student Counseling and Wellness Center **Nathaly Shoua-Desmarais**
Multidisciplinary Education, Psychiatry and Behavioral Health **Patricia Junquera**
OB/GYN Clerkship **Emery Salom**
Operations and Revenue Cycle **Carlos Correa Algarin**
Outreach **Virama Oller**
Pathology Curriculum **Amilcar Castellano-Sanchez**
Pediatrics Clerkship **Jefry Biehler**
Pediatric and Adolescent Health for NHELP **Onelia Lage**
PhD Program in Biomedical Sciences **Alexander Agoulnik**
PhD Program in Biomedical Sciences **Nazira El-Hage**
Physician Assistant Studies Program **Raisa Miller**
Psychiatry and Behavioral Health **Priscilla Chaves**
Psychiatry Clerkship **Leonard Gralnik**
Quality and Clinical Performance Improvement **Elizabeth Pancorbo**
Risk Management **Yvonne Capote**
Student Affairs & MPAS, Operations **Irene Delano**
Student Programs and Career Services **Scarlett Aldana**
Student Support Services; Medical Student Ombudsperson **Heidi von Harscher**
Translational Glycobiology Institute **Charles J. Dimitroff**
Teaching and Learning **Samantha Lemus-Martinez**

Mission Statement

The Herbert Wertheim College of Medicine develops highly qualified, community-engaged, socially accountable health care professionals, and serves our region, our nation, and the greater world through transformative translational research, medical education, and clinical programs that drive forward innovations in health care.

History

Florida International University (FIU) Herbert Wertheim College of Medicine (HWCOM) was established in response to a community need for access to medical education and a regional need to address a shortage of physicians. A proposal for a college of medicine at FIU was presented to the Board of Regents on July 5, 2004; the decision was postponed, and later that year the Board of Regents was dissolved by the Governor and replaced by the Board of Governors.

The university continued to build its case for a medical school based on the need for greater access to medical education and patient care, and on the need to reduce health disparities in the community. In November 2005, the Board of Governors heard FIU presentations for the creation of a new medical school in Florida. In March 2006, the South Florida community was awarded a public college of medicine at FIU in Miami. Founding faculty members were recruited, and in February 2008 the Liaison Committee on Medical Education (LCME) conferred preliminary accreditation on the college's Doctor of Medicine degree program. The college accepted its first class of future doctors in fall 2009. Full accreditation was granted in February 2013, and the first cohort of students graduated in April 2013.

Doctor of Medicine (MD) Degree

The Doctor of Medicine (MD) degree program prepares students for advancement into postgraduate study and for the practice of medicine in any medical specialty or primary care area. In addition to required courses and clerkships, the MD degree program requires demonstrated achievement of general competencies required for beginning a residency program, passing of Step 1 and Step 2 Clinical Knowledge of the United States Medical Licensing Examination, consistent display of professional behaviors and values appropriate for the practice of medicine, and recommendation from the Medical Student Evaluation and Promotion Committee and the HWCOM Dean.

The curriculum is divided into four successive periods of study, with foundations in basic medical science, clinical science, clinical skills, professionalism, and social accountability. Service learning is a major component of the program, occurring through the college's Green Family Foundation Neighborhood Health Education Learning Program (NeighborhoodHELP) and other health care delivery service opportunities. The college has formal affiliations with health care providers in the community, providing settings for supervised clinical practice learning. Among these affiliations are Baptist Health South Florida, Broward Health, Citrus Health Network, Cleveland Clinic Florida, Good Samaritan Medical Center, Jackson Health System (Public Health Trust), Leon Medical Centers, Memorial Healthcare System, Nicklaus Children's Hospital, Mount Sinai Medical Center, Palmetto General Hospital, Miami VA Healthcare System, South Florida Evaluation and Treatment Center, and several ambulatory health care clinics.

For additional information on program requirements for the MD degree, visit the HWCOM website at **http://medicine.fiu.edu/education/md/**.

Admission

HWCOM participates in the American Medical College Application Service (AMCAS) application process (see **https://www.aamc.org/students/applying/amcas**). Applications verified by AMCAS are the first step in the HWCOM applicant screening process. Following receipt and verification of the AMCAS application and its data, each applicant is invited to complete the HWCOM Secondary Application. A $30 nonrefundable application fee is required with submission of the HWCOM Secondary Application. The HWCOM Secondary Application provides additional insight into the applicant, exploring the applicant's interest in medicine, and suitability for HWCOM. Applicants are invited for interviews based on academic factors and nonacademic factors, such as personal experience in several of the following:

clinical/patient care exposure, research, commitment to service, leadership, and other enriching qualities.

After the interview, the completed file is reviewed by the Admissions Committee. The Admissions Committee then votes to determine the admission status of the applicant. HWCOM maintains an active waitlist until the first day of Orientation.

Coursework Requirements

Total Credits: 189

Period 1 (37 credits)

BMS 6001	Genes, Molecules, and Cells	6
BMS 6015	Clinical Skills I	5
BMS 6100	Structure of the Human Body	4
BMS 6400	Pharmacology	4
BMS 6500	Integrated Functions of the Human Body	5
BMS 6603	Pathology and Infectious Disease	6
BMS 6820	Medical Jurisprudence	1
BMS 6826	Ethical Foundation of Medicine	1
BMS 6827	Foundations for the Community-Engaged Physician	2
BMS 6880	Clinical Epidemiology and Quantitative Research	2
BMS 6891	Professional Behavior I and Humanism	1

Period 2 (54 credits)

BMS 6016	Clinical Skills II	8
BMS 6064	End of Life Care	1
BMS 6066	Evidence-Based Medicine & Complimentary and Integrative Medicine	1
BMS 6067	System Based Practice	2
BMS 6071	Community-Engaged Physician I	5
BMS 6631	Hematopoietic and Lymphoreticular Systems	3
BMS 6632	Endocrine System	3
BMS 6633	Cardiovascular and Respiratory Systems	6
BMS 6634	Gastrointestinal System and Medical Nutrition	4
BMS 6635	Musculoskeletal Systems	3
BMS 6636	Nervous System and Behavior I	6
BMS 6637	Reproductive System	3
BMS 6638	Renal System	3
BMS 6643	Integumentary System: The Skin	2
BMS 6840	Nervous System and Behavior II	3
BMS 6892	Professional Behavior II	1

***Period 3 (58-59 credits)**

BMS 7810	Core Concepts in Medicine	3
MDC 6102	Community-Engaged Physician II	1
MDC 7120	Family Medicine Clerkship	9
MDC 7180	Obstetrics and Gynecology Clerkship	7
MDC 7200	Internal Medicine Clerkship	9
MDC 7400	Pediatrics Clerkship	7
MDC 7600	Surgery Clerkship	9
MDC 7760	Radiology Clerkship	2
*MDX XXXX	Elective/Neurology Clerkship (MDC 7800)	4-5
MDC 7830	Psychiatry Clerkship	7

***Period 4 (39-40 credits)**

MDC 6103	Community-Engaged Physician III	1
MDC 7124	Geriatrics	2
MDE 7059	Community Medicine Practicum	1
MDE 7067	Professional Development and Clinical Medicine Capstone	2
*MDX XXXX	Elective/Neurology Clerkship (MDC 7800)	4-5
MDR 7910	Research Scholarship	9
MDI 7XXX	Subinternship	4
MDS 7710	Emergency Medicine Selective	4
MDE 7XXX	Electives	12

*The number of credits during Period 3 and Period 4 will depend on when student takes MDC 7800 Neurology Clerkship.

Green Family Foundation NeighborhoodHELP

HWCOM, in collaboration with community partners and other FIU colleges, established NeighborhoodHELP as a novel component of medical education; the program aims to improve health outcomes and train future members of the health care workforce to be socially accountable. Through this service-learning experience, students develop an understanding of the social determinants of health, of interprofessional practice, and of important aspects of health systems science. Teams of students, faculty, and outreach workers strive to address the social and health care needs of household members living in medically underserved neighborhoods in South Florida. After being introduced to important concepts including interprofessional practice, health disparities, and health equity in their first year, medical students then join an interprofessional team for their last three years. These interprofessional teams may include FIU nursing, social work, physician assistant, public health, law, and education students in addition to medical students. Teams apply concepts learned in the classroom during regular visits to these communities, developing individualized and comprehensive plans to improve the health and quality of life of the household members served. Students, supervised by interprofessional faculty, assess, respond to, and collaborate with assigned households to address health issues. Staffed by primary care providers, the program provides integrated primary and behavioral health care in fully equipped mobile health centers stationed in the designated neighborhoods. It also runs a mobile mammography screening program. Through participation in NeighborhoodHELP, students develop cultural humility by helping to address the complex medical, social, and behavioral health needs experienced by diverse patients in dynamic communities

Clinical Services: FIU Health Care Network (FIU Health)

FIU Health Care Network (branded FIU Health) is the management service organization that manages the university's health system and faculty group practice. FIU Health supports the education and service missions of FIU and HWCOM and provides primary and specialty care services to the community through an integrated, team-based approach.

Research: Biomedical and Clinical

Research universities, and medical schools in particular, perform basic medical research that leads to breakthroughs in detection, diagnosis, treatment, and eradication of disease and other health problems. FIU scientists conduct important disease-related research. One of the objectives of the research program is to foster synergy between teaching, clinical practice, and

basic/translational research. FIU medical students are aware of the latest medical developments and work alongside renowned researchers to develop research skills.

The college's internationally recognized scientists, all with substantial research funding, are developing major research programs in basic, translational, and clinical research in glycobiology, environmental science and toxicology, genomic and molecular medicine, immunology and nanotechnology, cancer biology, behavioral health and health disparities and population health.

Master in Physician Assistant Studies

The Master in Physician Assistant Studies (MPAS) program is designed to provide a broad, interdisciplinary education that prepares students for collaborative medical practice as physician assistants. By utilizing the expertise of HWCOM physician and physician assistant faculty members, core knowledge and information is provided to students.

The 27-month curriculum differentiates itself from other graduate programs at FIU by training students to serve South Florida's diverse population through a patient-centered curriculum that emphasizes medical and cultural competence. The educational program occurs in a medical school environment and educates students in basic science and clinical science. The program is divided into two phases, didactic and clinical; the duration of the didactic phase is 15 months, and the duration of the clinical phase is 12 months. During the second phase of the program, students participate in supervised clinical rotations. Students are required to complete supervised clinical experiences in emergency medicine, family medicine, internal medicine, pediatrics, psychiatry, obstetrics and gynecology, and surgery. Students also must complete an elective. Rotation sites may vary in schedule, expectations, and assignments.

Admission Requirements

The MPAS program adheres to the general admission procedures outlined by the FIU University Graduate School (UGS). Completed applications are evaluated by an Admissions Committee designated by the program director, who is appointed by the HWCOM Dean. In addition, applicants must meet the following criteria for admission to the master's program:

1. Hold a Bachelor's degree or its equivalent from an accredited college or university. Baccalaureate degrees must be completed by the spring semester prior to matriculation;
2. Earn overall upper division and upper division science grade point averages (GPAs) of at least 3.0 (on a 4-point scale);
3. Complete all prerequisite courses within 7 years of the application deadline. All prerequisite courses must be completed by the application deadline (i.e., courses completed after the application deadline will not be acknowledged). Applicants must earn grades of "C" or higher in all prerequisite courses.
4. Submit official Graduate Record Examination (GRE) scores. Scores must be dated within 5 years of the application deadline. Scores should be sent by the Educational Testing Service directly to the Central Application Service for Physician Assistants, code 0554;
5. Submit three letters of recommendation from physicians, physician assistants, nurse practitioners, professors, or any individual with whom the applicant has worked in a professional or educational environment;
6. For international graduate student applicants whose native language is not English, a total score of 80 on the internet-based Test of English as a Foreign Language (TOEFL) (equivalent to a total score of 550 on the paper-based TOEFL) or 6.5 overall on the International English Language Testing System (IELTS) is required.

Graduation Requirements

To be awarded a Master in Physician Assistant Studies degree, each student must:

1. Pass each required course/rotation with a grade of "C" (75%) or higher and maintain an overall GPA of 3.0;
   a. Pass summative written and practical examinations;
2. Complete a minimum of 92 credits
3. Submit and obtain faculty endorsement of a signature paper/capstone project;
4. Complete the Physician Assistant Clinical Knowledge Rating and Assessment Test (PACKRAT) for self-assessment;
5. Comply with program standards of conduct and guidelines for ethical conduct;
6. Complete the program's Physician Assistant Board Review Course.

Course Requirements (92 credits)

Fall Semester 1 (14 credits)

PAS 6022	Gross Anatomy	4
PAS 6014	Physiology I	3
PAS 6040	Clinical Assessment I	3
PAS 6184	Medical Microbiology and Infectious Disease	4

Spring Semester 2 (17 credits)

PAS 6031	Clinical Skills I	2
PAS 6015	Physiology II	3
PAS 6011	Clinical Medicine I	3
PAS 6023	Pharmacology in Disease Pathology I	2
PAS 6090	Clinical Application of Evidence-Based Practice I	3
PAS 6041	Clinical Assessment II	2
PAS 6016	Integration into Clinical Concepts I	2

Summer Semester 3 (7 credits)

PAS 6012	Clinical Medicine II	3
PAS 6026	Pharmacology in Disease Pathology II	2
PAS 6017	Integration into Clinical Concepts II	2

Fall Semester 4 (13 credits)

PAS 6032	Clinical Skills II	1
PAS 6033	Clinical Medicine III	3
PAS 6050	The Role of PA in American Health Care	3
PAS 6005	Human Behavior	2
PAS 6018	Integration into Clinical Concepts III	2
PAS 6091	Clinical Application of Evidence-Based Practice II	2

Clinical Year Rotations (36 credits)

PAS 6103	Internal Medicine Clerkship	6
PAS 6400	Family Medicine Clerkship	8
PAS 6200	Surgery Clerkship	6

PAS 6500	Obstetrics/Gynecology Clerkship	3
PAS 6300	Pediatric Clerkship	6
PAS 6600	Emergency Medicine Clerkship	4
PAS 6125	Psychiatry Clerkship	3

Elective Clinical Rotations (5 credits minimum)

PAS 6185	Geriatric Medicine Clerkship	4
PAS 6940	Elective Clinical Clerkship	Variable

PhD in Biomedical Science

Approved by the Board of Governors of the State University System of Florida in January 2012 and admitting students since August 2012, the PhD in Biomedical Sciences program at HWCOM provides a curriculum different than that of other FIU colleges. A distinctive feature of this program is that both graduate students and medical students sit side-by-side in some courses in the introductory basic sciences portion of the medical curriculum, providing graduate students with an appreciation of the medical aspects of modern biosciences. The program equips graduate students with the ability to apply research skills from bench to bedside and to translate fundamental discoveries into new treatments for human diseases.

Admission Requirements

The PhD in Biomedical Science program at HWCOM adheres to the general admission procedures outlined by the FIU University Graduate School (UGS). Completed applications are evaluated by an Admissions Committee. Each applicant must meet the following minimum requirements to be considered for admission:

1. Hold a Bachelor's degree in a relevant discipline from an accredited college or university;
2. Earn a GPA of at least 3.0 (on a 4-point scale) during the last 60 credits of an accredited undergraduate degree or an earned graduate degree;
3. Submit official transcripts from all colleges or universities attended;
4. Submit official GRE scores;
5. Submit a minimum of three letters of recommendation from undergraduate or research advisors. Strong unequivocal letters attesting to the applicant's educational background, motivation, analytical skills, and promise as a research scientist are important considerations;
6. Submit curriculum vitae and a statement of purpose highlighting future goals after obtaining the PhD degree;
7. International graduate student applicants whose native language is not English are required to submit a score for the TOEFL or for the IELTS. A total score of 80 on the internet-based TOEFL or 6.5 overall on the IELTS is required.

Degree Requirements

The PhD in Biomedical Science requires a minimum of 81 post-baccalaureate credits, of which at least 24 credits are allocated for dissertation research. Students are required to maintain a cumulative GPA of 3.0 or higher.

Coursework Requirements

Mandatory Courses

GMS 6103	Molecular Microbiology and Infectious Diseases	3
GMS 6220	Molecular Genetics and Cellular Biology	6
GMS 6481	Physiology and Immunology	4
GMS 6605	Basic Structure of the Human Body	3-4
GMS 6864	Principles of Clinical Epidemiology and Biostatistics	2
GMS 6939	Graduate Seminar	1
GMS 6940	Supervised Teaching in Biomedical Science	1
GMS 6942	Laboratory Rotations	1
GMS 6961	Qualifying Examination	5
GMS 6962	Formation of Committee: Appointment of Dissertation Committee: Preliminary Proposal	1
GMS 6963	Doctoral Dissertation Proposal	3
GMS 6964	Dissertation Proposal Seminar	1
GMS 6979	Research Credits	1-10
GMS 7980	Dissertation Research Credits	1-10
GMS 7981	Dissertation Defense Seminar	1

Elective Choices* (5 credits minimum)

BME 6545	Biosensors and Nanobioelectronics	3
BSC 5459	Advanced Bioinformatics for Biologists	3
CGS 5166	Introduction to Bioinformatics Tools	2
CHM 5305	Graduate Biological Chemistry	3
CHM 6088	Environmental Chemistry of Trace Elements	3
CHM 6382	Advanced Biological Chemistry	3
GMS 6300	General Pathology	4
GMS 6500	Basic Pharmacology	4
GMS 6904	Introduction to Scientific Writing	3

**This is not a complete list of possible elective courses. The dissertation advisor or the Dissertation Advisory Committee, at their discretion, may suggest potential electives that are described in this Graduate Catalog.*

Laboratory Rotations

Newly matriculating students perform research rotations in a minimum of three different faculty laboratories for 4 to 6 weeks each. Students choose faculty laboratories with the consent of those faculty members. The purpose of the rotations is threefold. First, each rotation period provides the student with an opportunity to evaluate the faculty member and laboratory. Second, the rotation provides the faculty member with an opportunity to evaluate the student. Third, rotations in diverse laboratories expose the student to a variety of methodologies and concepts. The rotation experience is an approved course (GMS 6942) with credit, and students receive a pass or fail grade based on an average of the evaluations of the three participating faculty members. Before beginning a rotation, students should discuss with the faculty member the expectations of the rotation and evaluation procedures. In the event that the student cannot make a decision on a major advisor after three rotations, or if a faculty member will not agree to be the student's supervisor, a fourth rotation is allowed. This requirement is waived if a student is supported by a grant or an external fellowship.

Supervised Teaching in Biomedical Science

Graduate students are required to register for one credit of GMS 6940 (Supervised Teaching) each semester they serve as teaching assistants. This requirement is waived if a student is supported by a grant or an external fellowship.

Graduate Seminar

Graduate students are required to register for one credit of GMS 6939 (Graduate Seminar).

Research Credits

Graduate students are required to complete at least 10 credits of GMS 6979 (Research Credits) involving research conducted in the PhD advisor's laboratory.

Qualifying Examination

Students take a qualifying exam soon after completion of mandatory courses. The qualifying exam consists of two parts:

- Part I: The student submits a comprehensive review on a topic chosen by the Dissertation Advisory Committee (DAC);
- Part II: Oral defense of the entire comprehensive review paper submitted by the student.

Doctoral Dissertation Proposal

After completion of the qualifying examination, a student must submit to DAC a doctoral dissertation proposal in the format for an AHA, National Institutes of Health (NIH), or National Science Foundation (NSF) predoctoral fellowship application.

Dissertation Proposal Seminar

A seminar based on the student's proposal is presented and graded by the dissertation committee. The formal admission to PhD candidacy occurs when the student successfully completes required courses and passes the qualifying exam, prepares a formal dissertation proposal, and successfully defends the content of the proposal before his or her advisory committee. Immediately following the proposal defense, the student's dissertation committee votes to admit the student to candidacy, to have the student resubmit the proposal within 6 months, or to dismiss the student from the PhD program. A student can only resubmit his or her proposal once. The dissertation committee should comprise at least five members, at least three of whom should be HWCOM graduate program faculty and at least one who is not a member of the HWCOM faculty and who holds a graduate faculty appointment.

Dissertation Research Credits

At least 24 credits of GMS 7980 (Dissertation Research) are to be taken after the student has advanced to candidacy.

Elective Course Requirement

Students must complete their elective requirements (5-credits minimum) before submitting their dissertations.

Dissertation and Dissertation Defense Seminar

The DAC approves the major goals of a student's research project, monitors progress of student performance, and approves a target date for the dissertation defense. A prerequisite for the dissertation defense is publication or submission of peer-reviewed papers. It is expected that the student will be first or senior author on at least one of the peer-reviewed publications. The format of the dissertation should follow UGS guidelines. The dissertation defense takes place after the dissertation is submitted in a final form and approved by the DAC. Changes recommended at the time of the defense may be incorporated subsequently. The dissertation should be submitted to the DAC at least 4 weeks prior to the expected defense date to permit the members adequate opportunity for review. Review of the dissertation by an outside reviewer is encouraged. The defense of the dissertation is governed by the regulations established by the UGS. The dissertation defense includes a public seminar followed by defense of the dissertation to the DAC in closed session. Following the examination, the DAC evaluates the performance in the candidate's absence and votes to pass or fail the candidate. The record of the vote is recorded on the FIU UGS Defense of Dissertation Results form and submitted to the UGS office.

Combined MD and Professional MBA Degree in Healthcare Management Pathway

HWCOM medical students in the third period of medical study may apply to the Masters of Business Administration (MBA) program. Each college (HWCOM and the College of Business) independently reviews and admits applicants to its programs. Only students admitted to both programs are permitted to enroll in classes in the combined degree pathway.

Combined degree pathway students complete the first 3 years of coursework in the MD degree program at HWCOM. At the beginning of the fourth period of study of the MD degree program curriculum, students admitted to the combined degree pathway pause their medical studies and begin classes as part of the MBA program. Classes in the MBA program are taken during the fall and spring semesters of the medical student's fourth year of study. During this time, students complete 33 hours of course work in the MBA program. Nine credits taken through HWCOM count toward the 42 credits required for the MBA degree. Students also must complete three program residencies (face-to-face or online). At the beginning of the fifth year, students resume study in Period 4 of the MD degree program curriculum. Students who successfully complete all requirements graduate with both degrees at the end of the 5 years.

Admissions Process:
To apply for admission to the combined MD and Professional MBA in Healthcare Management pathway, medical students in the summer or fall of their third year (prior to November 1) must be in good academic standing and must receive approval from the Medical Student Evaluation and Promotion Committee, the HWCOM Office of Student Affairs, and the HWCOM Office of Academic Affairs. Applications are reviewed by the program admission committee. Applicants to the combined degree pathway are not required to submit standardized test scores, but must have a minimum GPA of 3.0; applicants also are required to have completed 2 years of experience, which includes volunteering, internships or clerkships, and any full- or part-time employment.

Combined MD and MPH -major in Epidemiology Pathway

The Herbert Wertheim College of Medicine (HWCOM) and the Robert Stempel College of Public Health and Social Work (Stempel College) offer a combined degree pathway

of a Master's of Public Health with a concentration in Epidemiology and a Doctor of Medicine.
An MPH is a professional public health degree emphasizing the understanding of population health and disease. The MD degree is a clinical medicine degree focusing on patient-centered clinical care.
Students may apply to the combined pathway in their third year of medical study. Each College will independently review and admit applicants to their programs. Only students admitted to both programs will enroll in classes in the combined pathway. Students will be expected to complete 45 credits for the MPH and all requirements for the MD degree.
Combined degree pathway students complete the first three years of coursework in the MD degree program at HWCOM. At the beginning of the fourth period of study of the MD degree program curriculum, students admitted to the combined degree pathway pause their medical studies and begin classes as part of the MPH program. Classes in the MPH program are taken during the fall, spring and summer semesters of the medical student's fourth year of study. During this time, students complete 36 hours of course work in the MPH program. Nine credits taken through HWCOM count toward the 45 credits required for the MPH degree.
At the beginning of the fifth year, students resume study in Period 4 of the MD degree program curriculum. Students who successfully complete all requirements graduate with both degrees at the end of the 5 years.

Admissions Process:

Medical students in the summer or fall of their third (M3) year (prior to November 1st) must make a formal application to the COM MPH Application Committee.
This application will include a personal statement. They must also get approval from the MSEPC and the Executive Associate Dean for Academic Affairs prior to applying to the MPH program.
Applications will only then be reviewed by the MPH - Epidemiology program admission committee. Applicants to the combined MD/MPH pathway will not be required to submit GRE scores. MCAT scores will be accepted.

Doctorate of Medicine/ Master of Science in Health Informatics and Analytics (MD/MSHIA) Combined Degree Pathway

The Herbert Wertheim College of Medicine (HWCOM) and the Master of Science in Health Informatics and Analytics (MSHIA) program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University have a combined degree pathway culminating in both a Doctorate of Medicine (MD) and a Master of Science in Health Informatics (MSHIA). Under the combined degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. Important criteria relating to the joint degree pathway are as follows:

1. HWCOM Medical students in their third year of medical study may apply to the MSHIA program. Each college (College of Medicine and College of Business) will independently review and admit applicants to their programs. Only students admitted to both programs will enroll in classes in the combined program.
2. Combined degree pathway students will complete the first three years of coursework in the College of Medicine. Then, beginning in the fourth year, students in the combined pathway will interrupt their medical studies and begin classes for the MSHIA program. Classes in the MSHIA program will be taken during fall, spring and summer semesters of the fourth year. During this time students will complete 27 hours of course work in the MSHIA program. Ten credits taken in the medical school will count toward the 37 credits required for the MSHIA degree. At the beginning of the fifth year, students will recommence taking courses in the medical program. Students will graduate with both degrees at the end of the 5 years.
3. Students will be expected to complete a minimum of 37 credits for the MSHIA and 189 credits as well as all requirements for the MD degree. Twenty-seven of those credits will be taken in the College of Business, with ten HWCOM credits being accepted toward the MSHIA degree. There is no change in course requirements for the MD degree.
4. Students will apply for the combined MD/MSHIA pathway in the following manner: Medical students in the fall of their third year (prior to December 30) must be in good academic standing and must get approval from the Medical Student Evaluation and Promotions Committee (MSEPC), the Office of Student Affairs (OSA), and the Office of Academic Affairs (OAA), in order to apply for admission to the MSHIA program. Applications will be reviewed by the MSHIA program admissions committee. Applicants to the combined MD/MSHIA pathway will not be required to submit standardized test scores; they must have a minimum GPA of 3.0.
5. Students begin taking classes in business in the fourth year. The entire fourth year is devoted to classes in the MSHIA program. There is also a mandatory requirement for MSHIA program virtual residencies.

The curriculum in the MD/MSHIA pathway follows a prescribed course of study shown below. The proposed schedule is as follows. (HWCOM does not have semesters. Therefore, we have used Period designations.)

First Year Period 1 (MI) August to end of March: College of Medicine curriculum
Second Year Period 2 (M2) April to end of March: College of Medicine curriculum
Third Year Period 3 (M3) April to end of March: College of Medicine: all required clerkships
Fourth Year medical students start M4 period in April. Then, in August start the MSHIA courses.
Medical students must be counseled as to when to take USMLE Step I and USMLE Step 2 CK and CS, and which electives, selective or subinternship to engage in prior to taking a leave to pursue the MSHIA program.
The remainder of Year 4 then consists of MSHIA courses. That is, from August through end of June.

Fifth year- The MSHIA program ends the end of June. Medical students take the remainder of the 5th year, which is the M4 period in the medical school (July through April).
Medical students will be counseled as to which electives, selectives or subinternship to take prior to applying for residency in September of this fifth year.

The following courses are required for the MSHIA program.

HIM 6628	Healthcare Data Visualization	3
HIM 6865	Healthcare Database Systems	3
HIM 6682	Quality & Outcome Analytics	3
HIM 6685	Clinical Information Systems	3
HIM 6517	Healthcare Project Management	3
HIM 6124	Technical & Data Architectures & Standards for Health Care	3
HIM 6527	Healthcare Information Security & Privacy	3
HIM 6858	Health Informatics / Analytics Practicum	3

(proposed by student & subject to the approval of the department housing the MSHIA program, Information Systems and Business Analytics)

One of the following courses (selected at the Department's discretion for each cohort) is required for the MSHIA degree:

HIM 6694	Consumer Health Informatics	3
HIM 6937	Special Topics	3

MSHIA Virtual Residencies I, II and III.

Residencies are mandatory, professional development non-credit requirements (typically include virtual meetings and independent activities, for example Six Sigma)

Courses waived in MSHIA: 10 credits

HIM 5065	Intro. To Health & Informatics	3
HIM 6019	Legal & Ethical Aspects of Healthcare	3
HIM 6267	Foundations of Health Informatics & Analytics Administration	1
QMB 6357	Business Stat. Analysis	3

Credits accepted from HWCOM: 10 credits

MDR 7910	Research Scholarship	4
BMS 6880	Foundations of Clinical Epidemiology & Quantitative Research	2
BMS 6067	US Healthcare Delivery System	2
BMS 6820	Humanism and Medical Jurisprudence	1
BMS 6826	Ethical Foundations of Medicine	1

There are, therefore, 9 courses to be taken in the College of Business, for a total of 27 credits.

Students must earn a minimum GPA of 3.0 in the MSHIA program to be conferred with the MSHIA degree.

Certificate in Core Clinical Clerkships

The FIU Certificate in Core Clinical Clerkships program provides core clinical clerkship training to third-year medical students studying at medical schools with which HWCOM has established contractual partnerships. During the clinical clerkships, students complete medical preceptorships and experiences, working with faculty members in the care of patients in hospital and private practice settings. The program aims to train students in decision-making skills relevant to patient care, and to offer students an understanding and knowledge of the health care system. Students complete six clinical clerkships in these disciplines: internal medicine (12 weeks), family medicine (6 weeks), obstetrics and gynecology (6 weeks), surgery (12 weeks), psychiatry (6 weeks), and pediatrics (6 weeks) for a total of 48 weeks. Students are supervised by faculty members who are licensed and have expertise in their respective specialties. Performance is evaluated at the bedside and in other clinical settings. This certificate program is open only to non-degree-seeking students enrolled in programs at partner institutions.

Core Clinical Clerkships Curriculum: 48 Credits

MDC 7200	Internal Medicine Clerkship	12
MDC 7120	Family Medicine Clerkship	5
MDC 7180	Obstetrics and Gynecology Clerkship	6
MDC 7600	Surgery Clerkship	12
MDC 7830	Psychiatry Clerkship	6
MDC 7400	Pediatrics Clerkship	7

Graduate Certificate in Molecular and Biomedical Sciences

The Graduate Certificate in Molecular and Biomedical Sciences program seeks to provide academic enhancement and professional development to non-degree seeking applicants to health-related professional degree programs. The courses taught in this program offer a foundation for a better understanding of the courses taught during the first year of medical school. The certificate aims to strengthen the applicant's biomedical knowledge and enhance their professionalism skills to improve their future application to medical school or other health-related professional degree programs. This certificate program is open only to non-degree-seeking students.

Admission Requirements

Students applying for the Graduate Certificate in Molecular and Biomedical Sciences must meet the following requirements for admission:

1. Completed University Graduate School application
2. Completed graduate certificate application
3. Bachelor's degree
4. All HWCOM pre-medical course requirements completed
   a. General Biology with laboratory - 2 semesters
   b. General Chemistry with laboratory - 2 semesters
   c. Organic Chemistry with laboratory (satisfied by either Organic Chemistry 1 and 2 or Organic Chemistry 1 and Biochemistry) - 2 semesters
   d. Physics with laboratory - 2 semesters
   e. Mathematics - 2 semesters of College Mathematics
   f. College English - 2 semesters of College English
5. US citizenship or permanent resident status

Required Courses: (20 credits)

BMS 6013	Medical Cell Biology and Biochemistry	3
BMS 6004	Medical Molecular Biology	3
BMS 6301	Medical Microbiology and Immunology	3
BMS 6501	Medical Physiology	3
BMS 6130	Pathology and Medical Histology	3
BMS 6003	Medical Genetics	3
GMS 6922	Professional Skills in Medical Sciences I	1
GMS 6923	Professional Skills in Medical Sciences II	1

Course Descriptions

Definition of Prefixes

BMS-Basic Medical Sciences; GMS-Graduate Medical Sciences; IHS-Interdisciplinary Health Sciences; MDC-

Medicine Clinical Clerkships; MDE-Medical Electives; MDI-Medical Internships; MDR-Medical Research; MDS-Medical Selective; PAS-Physician Assistant

Courses in the College of Medicine numbered BMSxxxx and MDCxxxx are restricted to students enrolled in the College of Medicine.

BMS 6001 Genes, Molecules & Cells (5-8). This course is designed to introduce the fundamental concepts of cell and molecular biology, biochemistry, and medical genetics as they relate to normal and disease processes. The topics will be covered in lectures, small group, and whole class discussion. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6002 Human Structure & Function (7). This is an introduction to essential concepts of human structure and function with integration of the anatomical and physiological basis of several important clinical skills and procedures. Prerequisite: Enrolled in the College of Medicine.

BMS 6003 Medical Genetics (3). The course covers fundamental principles of medical genetics integrated with biochemistry, cell biology and molecular biology. Prerequisite: Enrollment in the HWCOM Graduate Certificate Program in Molecular and Biomedical Sciences.

BMS 6004 Medical Molecular Biology (3). The course covers fundamental concepts of prokaryotic and eukaryotic molecular biology, as they relate to human health and diseases. Prerequisites: Enrollment in the HWCOM Graduate Certificate Program in Molecular and Biomedical Sciences.

BMS 6013 Medical Cell Biology and Biochemistry (3). The course covers fundamental concepts of cell biology and biochemistry, as they relate to human health and diseases. Prerequisite: Enrollment in HWCOM Graduate Certificate in Molecular and Biomedical Sciences.

BMS 6015 Clinical Skills I (4-6). Clinical Skills I will focus on teaching the knowledge, skills and attitudes needed in areas such as communication, the physical examination and documentation. These skills are developed and refined using various teaching modalities and later integrated with more advanced clinical skills during the Clinical Skills II course. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6016 Clinical Skills II (1-12). Clinical Medicine is a longitudinal strand throughout the four-year medical school curriculum. The strand is designed to provide students with the foundations of patient care. Clinical Skills II (CS II) will prepare students for their clinical clerkship years and provide them with the tools necessary for a lifetime of clinical competence. CS II continues to develop and foster the basic concepts emphasized during CS I and incorporates more advanced interviewing, communication, and physical examination skills. In addition, CS II focuses on the development and practice of clinical reasoning skills by emphasizing the correlation of findings on history and physical examination with underlying pathophysiology, test results, and the ability to develop and refine a working differential diagnosis. The topics addressed in CS II will be aligned with the course work presented contemporaneously in other courses and strands. For example, the cardiovascular examination will be covered during the cardiovascular organ system module. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6064 End of Life Care (1). This course teaches the basic concepts associated with end-of-life care for adults. Emphasis is placed on symptom management, preparation for death, and support to adults and their families. The goal is to develop knowledge of specific strategies to support end-of-life care planning among patients, families, and healthcare professionals. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6066 Evidence-Based Medicine & Complimentary and Integrative Medicine (1-12). This course is intended for students to acquire and develop both the knowledge and the skills for evidence-based medicine (EBM). The emphasis of the course is on the second, third and fourth steps of EBM: searching clinical evidence, appraising critically the validity and importance of clinical research evidence, and determining the applicability of evidence into practice. In addition, during this course students will use concepts obtained in previous epidemiology courses as they are applied to help solving clinical problems. The second part of the course is an introduction to the most common complementary and integrative medicine (CIM) therapies used by patients in the United States. Students interact with CIM practitioners from different disciplines during workshops, review several cases in which patients use CIM techniques, and discuss issues related to patient care. Students are required to work on clinical cases, formulate PICO questions (P=Population/Patient/Problem, I=Intervention, C=Comparison, O=Outcome), search clinical evidence-based literature (learned in EBM) and apply that knowledge to advise patients on the safety, efficacy, and appropriateness of CIM therapies and OTC medications. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6067 System Based Practice (1-12). This course provides the student with a fundamental understanding of the U.S. healthcare delivery systems, policies that shape healthcare, and the Quality and Safety movement. Prerequisite: Enrolled in the College of Medicine.

BMS 6071 Community-Engaged Physician I (5). This Community-Engaged Physician I course is part of the Medicine and Society strand and encompasses the Green Family Foundation Neighborhood Health Education Learning Program (NeighborhoodHELP). This service-learning course integrates the community-engaged household visit experiences of NeighborhoodHELP with active learning class sessions. It aims to provide students the skills to assess the social determinants of health while simultaneously providing household-centered care in collaborative interprofessional teams. Students will learn the fundamentals of health education, health promotion, appropriate screening and preventive health services, and chronic disease management while having the opportunity to reflect critically on these activities during their household visits. With its emphasis on community medicine, the course also builds on concepts of population health and health disparities introduced in prior courses and culminates in a community-based group project. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6100 Structure of the Human Body (1-12). This course is designed to introduce first year medical students to essential concepts of the structure of the human body, including early human development, composition of different tissues, and organ morphology. Basic concepts of embryology, histology, and gross anatomy from the microscopic to the organ system level are taught as the foundation for an in-depth understanding of the physiology of the human body and of clinical medicine. Lectures, laboratory sessions, and case presentations will be used to deliver course objectives. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6130 Pathology and Medical Histology (3). Introductory course in the study of normal tissues and organs and how these are affected by disease. Prerequisite: Enrollment in the HWCOM Graduate Certificate in Molecular and Biomedical Sciences.

BMS 6301 Medical Microbiology and Immunology (3). The course is designed to introduce the students to the general principles of infectious disease, host responses and the pathogen's evasion that are relevant for a foundation in clinical medicine. Prerequisite: Enrollment in the HWCOM Graduate Certificate Program in Molecular and Biomedical Sciences.

BMS 6400 Pharmacology (4). This course is an introduction to the basic principles of pharmacology and to the primary classes of drug therapy, including the prototypic agents. The main goal of the medical training (curriculum) is to develop the diagnostic and therapeutic skills (competencies) required by a basic doctor. Safe and effective prescribing is a core competency. In addition, learning should provide an appropriate framework fostering the ability to assimilate information about new drug development that will occur throughout a professional career (self-directing learning). The Pharmacology teaching is designed with this final goal (to attain a core competency) in mind and reflects the paradigm shift from a process-focused education to an outcome oriented education. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6500 Integrated Functions of the Human Body (1-12). The course is designed to introduce first year medical students to essential concepts of physiology and immunology. The goal is to provide the students with a strong foundation relevant to their understanding of pathological conditions and to their future diagnostic and therapeutic decision making. Physiology is taught using an organ system approach, emphasizing the interplay of molecules, cells, tissues, organs and systems to maintain normal function of the human body. Normal and abnormal functions of the immune system are introduced. Integration of immunology with organ system physiology is emphasized. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6501 Medical Physiology (3). The course is designed to introduce the students to essential concepts of medical physiology. Prerequisite: Enrollment in the HWCOM Graduate Certificate Program in Molecular and Biomedical Sciences.

BMS 6603 Pathology and Infectious Disease (1-12). Pathology and Infectious Disease is an introductory course in the study of disease and the general principles of infectious disease. The Pathology component of the course will emphasize the general concepts and vocabulary to lay the groundwork that will be useful during the subsequent courses within the organ systems modules. Areas covered in this course include general concepts of histology, cellular adaptations, necrosis, apoptosis, inflammation, repair, hemodynamic disorders, neoplasia, and pathology as it relates to nutritional/environmental factors, as well as an introduction to forensic medicine and pediatric and genetic disorders. In addition, during this course the students will also receive general concepts relating to clinical laboratory medicine and regulatory organizations allied to the field of medicine and hospital oversight in a 2 hour lecture referred to as fundamentals of laboratory medicine, followed by a one hour practical in the classroom. The Infectious Disease component includes an overview of microbes, including bacteria, viruses, fungi, and parasites, important to human disease and disease processes. Specific topic areas of this component of the course include microbial disease, virulence mechanisms, evasion strategies used by pathogens against the antimicrobial immune response, and innate antimicrobial mechanisms. General concepts (building blocks for comprehending organ-specific pathology presented in Period 2) are emphasized in this introductory course. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6631 Hematopoietic and Lymphoreticular Systems (3). This course is designed to provide the fundamental ground knowledge as it relates to the understanding of hematologic diseases, the clinical approach to a patient with a hematologic disease and the initial approach to the use of various chemotherapeutic drugs. Discussions related to: the mechanisms of disease with an understanding of the molecular bases that explain the disease process; the clinical features of the different disorders - genetic or acquired - as well as a description of the morphologic features of these diseases based on the most current available and clinically applicable information. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6632 Endocrine System (3). This Endocrine System course: (1) Introduces medical students to the abnormal processes and principal therapies of endocrine disorders, building upon the specific topics discussed in the course Integrated Functions of the Human Body and Structure of the Human Body; (2) Advances medical students' knowledge and comprehension of the aforementioned disorders and therapeutic modalities, including the influence and effects of gender, ethnicity, and behavior of patients on specific endocrine diseases. To provide an interactive teaching and learning environment, the course includes 'question and answer' sessions interspersed during the lectures as well as case discussions. A solid understanding of normal endocrine processes (including hormone synthesis, secretion, action, and metabolism) and anatomy and function of endocrine organs are required to successfully master this course. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6633 Cardiovascular and Respiratory Systems (6). This course is an introductory learning opportunity to gain the basic concepts of cardiac and pulmonary medicine. The course will review the cardiopulmonary structures and anatomic and physiologic relationships and

their integration with clinical medicine. The course will cover abnormal cardiovascular and pulmonary structures and physiology and the associated mechanisms of the related diseases. The clinical manifestations of derangements of the cardiopulmonary system will be reviewed. The student will be introduced to the diagnostic and therapeutic interventions in cardiopulmonary disease. Case-based approaches, group discussions, simulations, and didactic presentations, with some exposure to clinical skills, will be used to achieve course objectives. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6634 Gastrointestinal System and Medical Nutrition (4). This course is designed to introduce second year medical students to the principles of diseases affecting the human body's digestive system. The course will cover conditions affecting the hollow viscera (esophagus, stomach, small intestine and colon) as well as solid organs that are part of the digestive system (liver and pancreas). Clinical cases will be used to introduce students to critical medical thinking and problem-based learning. Integration of anatomy, physiology, immunology and histology will be emphasized. Prerequisite: Enrolled in the College of Medicine.

BMS 6635 Musculoskeletal Systems (1-5). This second year medical school course is designed to provide students the opportunity to learn the normal development, structure, and function of the musculoskeletal system, expanding upon the foundations from the first-year anatomy course. Common congenital and acquired pathologic conditions, as well as interpretation of diagnostic tests and basic treatment options are reviewed. The following areas are emphasized: effects of environment, nutrition, exercise, and aging on bone and joint homeostasis; radiological assessment and correlation with pathoanatomy; infectious, neoplastic, and mechanical disorders affecting the musculoskeletal system; basis of autoimmunity, rheumatologic diseases and inflammatory disorders. The course provides opportunities to learn and assess application of pathophysiologic reasoning as well as clinical, laboratory and radiologic findings to assist in differential diagnosis with review of treatment strategies. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6636 Nervous System and Behavior I (1-12). This course provides an integrated, multidisciplinary overview of the structural and functional relationships of the central and peripheral nervous systems under both healthy and diseased conditions. The course covers essential concepts in normal and pathologically altered neurological functions (using neuroanatomy, neurophysiology, neuropharmacology, neuropathology, and clinical neurology). The goal of the course is to give students the skills to develop and prioritize a differential diagnosis, localize lesions based on diagnostic tests and neurological signs, explain the patient's signs and symptoms, as well as propose and interpret diagnostic tests and approaches to therapy. The format of the course includes lectures, laboratory work, small-group case-based discussions, and clinical correlates presented through a variety of application exercises and case discussions. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6637 Reproductive Systems (3). Reproductive Systems provides an overview of the development of the male and female reproductive systems with a focus on abnormalities of sexual differentiation and function, the physiology of control of the menstrual cycle, conception, infertility, menopause and pregnancy. In addition, the pathophysiology of the male reproductive system will be covered. Prerequisite: Enrolled in the College of Medicine.

BMS 6638 Renal System (1-12). This course is an introduction to the study of the renal system. It will help the student integrate what they have learned in previous courses (e.g., Anatomy, Physiology, Biochemistry, Genetics, Epidemiology, Histology, and Pharmacology) and lead to an understanding of the mechanisms of diseases involving the kidneys. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6643 Integumentary System: The Skin (1-5). This course provides the medical student the opportunity to learn the normal development, structure, and function of the integumentary system. Common congenital and acquired pathologic conditions and the interpretation of diagnostic tests, and basic treatment options are reviewed. The course also provides opportunities to learn and assess application of pathophysiologic reasoning and clinical, laboratory, and radiologic findings to differential diagnosis. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6820 Medical Jurisprudence (1-12). Medical Jurisprudence introduces students to health law concepts students will initially encounter in clinical settings and provides a framework to identify and analyze pertinent legal issues. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6826 Ethical Foundation of Medicine (1). This course gives students a foundation in bioethics and the obligations of medical practice as coming from a social contract. It serves as the foundational course to prepare students to make daily ethical decisions related to ethical issues, challenges, and dilemmas they will encounter as students and socially accountable physicians. The course provides historical background on the social and moral foundations of modern medicine. Students review the major medical oaths and codes; work through cases; and analyze the ethical basis of decision-making by focusing on informed consent and advance care planning. They discuss the social and cultural factors in patient-doctor interaction, including implicit bias. Students are also introduced to the role and value of the humanities and arts in medicine. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6827 Foundations for the Community-Engaged Physician (1-12). This course will serve as an introduction to the community engaged physician course series, the longitudinal service-learning program that encompasses the Green Family Foundation Neighborhood Health Education Learning Program (NeighborhoodHELP). It aims to provide a foundation of empirical knowledge for understanding and promoting health in communities and working with vulnerable populations. The course places special emphasis on cultural humility, health equity, and the social determinants of health. Students also begin to develop collaborative skills to work effectively as part of interprofessional teams. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6840 Nervous System and Behavior II (1-12). This course will present the fundamentals of psychiatry and psychological principles that are the foundation for clinical work in Period 3. These principles include psychiatric diagnoses and treatment, cognitive neuroscience, cognitive and emotional development, and principles of psychopharmacology and psychotherapy. Learning will take place in an interactive process using team-based learning, problem-based learning, and some traditional lectures. Independent study and preparation prior to group activities will be an integral part of the learning process. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6880 Clinical Epidemiology and Quantitative Research (1-12). This course is an introduction to the foundations and methods of clinical and epidemiological research. The main perspective is the use of quantitative methods to address clinical or epidemiological research questions, as well as the use of research to inform the practice of medicine. Concepts from the sciences of clinical epidemiology and biostatistics will be presented to the student in theory and problem-based scenarios. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6891 Professional Behavior I and Humanism (1-12). This course has two components: Professional Behavior I and Humanism. Professional Behavior I is a course within the Professional Development strand designed to introduce and teach awareness of certain values, emotions, attitudes, and behaviors, as well as to help students develop skills for self-reflection. This course aims to prepare the future physician emotionally for the many diverse psychological experiences associated with the clinical setting and professional life. It challenges students to develop an awareness of their biases and behavioral and personal issues. It also nurtures students' understanding of the emotional stress associated with the practice of medicine, and how these personal stressors can impact patient care and health outcomes. The Humanism component of the course introduces students to mindfulness practices and asks them to reflect on compassion, empathy, the core professional values of medicine, and their own personal values as they relate to their current and future work in health care. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 6892 Professional Behavior II (1). This course is a continuation of the Period 1 Professional Behavior experience. Where the focus of the course during Period 1 was on "self-awareness," Period 2 goes more into depth in the development of self-awareness and the development of the emerging "MD Identity." Class sessions are structured using the same approach with the introduction, history, development and implications of the Values, Emotions and Attitudes (VEAs) on medical practice. However, the vignettes are more evidence-based and discussions include reflections of the student's clinical experiences as they relate to the VEA. Additionally, the VEAs presented in the class session are more comprehensive and identify greater implications for the MD. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 7810 Core Concepts in Medicine (5-7). The major themes of Osler Friday are student-driven inquiry, learning and teaching with integration of the 6 core competencies of medical education. Problem-based learning in small groups followed by large group consultation with specialists will serve as the primary learning format. Individual and pair assignments in critical appraisal, clinical application of statistics, and a group assignment in case development will also support the course learning objectives. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

BMS 8910 Directed Study (1-3). Medical students engaged in individual research under the supervision of the COM faculty. Prerequisite: Enrolled in the College of Medicine.

GMS 6065 Molecular Oncology (3). This course will introduce students to fundamental areas of cancer biology, and provide students with a detailed understanding of emerging topics in molecular and clinical oncology. Prerequisite: GMS 6220 and GMS 6481

GMS 6103 Molecular Microbiology and Infectious Diseases (3). This course introduces the general principles of infectious diseases and the host response to infection. Prerequisites: Currently enrolled in the HWCOM PhD program and permission of the course director.

GMS 6220 Molecular Genetics and Cellular Biology (6). The course gives graduate students an introduction to fundamental concepts in biochemistry, cellular and molecular biology, and genetics with an emphasis on medically-relevant themes. Prerequisites: Currently enrolled in the HWCOM PhD program and permission of the course director.

GMS 6300 General Pathology (4). This course introduces the molecular and genetic basis of human diseases while emphasizing the basic pathologic processes and vocabulary. Prerequisites: Currently enrolled in the HWCOM PhD program and permission of the course director.

GMS 6481 Physiology and Immunology (4). This course introduces students to the fundamental concepts of physiology and immunology from a biomedical perspective that will assist in evaluating pathology and therapeutic target options. Prerequisites: Currently enrolled in the HWCOM PhD program and permission of the course director.

GMS 6500 Basic Pharmacology (4). This course is an introduction to the basic principles of pharmacology and provides an overview of drugs from a molecular, cellular, and basic science perspective. Prerequisites: Currently enrolled in the HWCOM PhD program and permission of the course director.

GMS 6605 Basic Structure of the Human Body (3-4). This course gives graduate students an introduction to basic concepts of human anatomy, including embryology, histology, gross anatomy and neuroanatomy. Prerequisites: Currently enrolled in the HWCOM PhD program and permission of the course director.

GMS 6864 Principles of Clinical Epidemiology and Biostatistics (2). This course provides an introduction to the elements and foundations of epidemiology and biostatistics. Prerequisites: Currently enrolled in the HWCOM PhD program and permission of the course director.

GMS 6904 Introduction to Scientific Writing (3). The introductory course designed to teach the students to design, write, and present scientific papers and grant applications. Prerequisite: HWCOM Graduate School Enrollment.

GMS 6922 Professional Skills in Medical Sciences I (1). The course provides students with a small structured learning environment in which to analyze the relationships between concepts and develop the ability to evaluate and integrate information. Prerequisite: Enrollment in the HWCOM Graduate Certificate Program in Molecular and Biomedical Sciences.

GMS 6923 Professional Skills in Medical Sciences II (1). Provide students with a small structured learning environment in which to analyze the relationships between concepts and develop the ability to evaluate and integrate information. Prerequisite: Enrollment in the HWCOM Graduate Certificate Program in Molecular and Biomedical Sciences.

GMS 6939 Graduate Seminar (1). A weekly seminar/discussion course consisting of research presentations by students, faculty, and visiting scientists in the area of biomedical sciences will form part of a recurring credit. Prerequisite: HWCOM Graduate School Enrollment.

GMS 6940 Supervised Teaching in Biomedical Science (1). Students will assist the faculty members who teach either graduate or medical students. Prerequisite: HWCOM Graduate School Enrollment.

GMS 6942 Laboratory Rotations (1). Laboratory rotations in specific laboratories of the HWCOM graduate program faculty that will eventually lead to the choice of a thesis laboratory. Prerequisite: HWCOM Graduate School Enrollment.

GMS 6961 Qualifying Examination (5). The purpose of the Qualifying Examination is to confirm the readiness of the graduate student to conduct PhD research. Prerequisite: HWCOM Graduate School Enrollment. Corequisites: Completion of all mandatory courses.

GMS 6962 Formation of Committee: Appointment of Dissertation Committee: Preliminary Proposal (1). The student submits preliminary research proposal approved by his/her committee. Prerequisite: HWCOM Graduate School Enrollment.

GMS 6963 Doctoral Dissertation Proposal (3). Doctoral Dissertation Proposal written in the style of an AHA, NIH or NSF predoctoral fellowship application. Prerequisite: HWCOM Graduate School Enrollment. Corequisites: Completion of GMS 6961, advisor.

GMS 6964 Dissertation Proposal Seminar (1). After completion of the Qualifying Examination (QE) and Dissertation proposal approval the student must present his proposal to the Dissertation Committee. The student will give a PowerPoint presentation the proposed research to the members of the dissertation committee. The dissertation committee will specifically evaluate the following: (i) Has the student demonstrated the ability to design a feasible project? (ii) Has the student shown a reasonable knowledge of the literature regarding the project? (iii) Has the student presented the proposal (both written and oral) in a scholarly fashion? (iv) Has the student demonstrated competent scientific knowledge with respect to overall fundamental principles and applications in biomedical science? and (v) Does the proposed research constitute an acceptable and feasible dissertation project? This will be achieved through an oral question and answer component within the scheduled time of the dissertation proposal exam meeting. The chairman of the dissertation committee will (i) insure that the proposal exam is held to a reasonable length of time; (ii) insure that the student is evaluated fairly and rigorously; and (iii) see that a written evaluation is promptly prepared and sent to the student and to the director of the graduate program. Prerequisite: HWCOM Graduate School Enrollment. Corequisites: Completion of GMS 6961, GMS 6963, and permission of the advisor.

GMS 6979 Research Credits (1-10). Research conducted in the PhD advisor's laboratory. May be repeated. Prerequisite: HWCOM Graduate School Enrollment.

GMS 7603 Anatomy of the Musculoskeletal System (2). This course gives Doctor of Physical Therapy (DPT) students a solid working knowledge of the functional anatomy of the back and limbs, including bones, joints, muscles, nerves and blood vessels. This will form the anatomical basis for an in-depth understanding of related pathological conditions, clinical examination and therapeutic interventions. Course objectives will be delivered by lectures and different types of laboratory sessions. Prerequisite: Admission into the Doctor of Physical Therapy Program. Corequisite: GMS 6605.

GMS 7980 Dissertation Research Credits (1-10). Research towards the completion of a doctoral dissertation. May be repeated. Prerequisite: HWCOM Graduate School Enrollment. Corequisites: Completion of GMS 6961, GMS 6964 and permission of the major professor.

GMS 7981 Dissertation Defense Seminar (1). Dissertation defense seminar. Prerequisite: HWCOM Graduate School Enrollment. Corequisites: Permission of major professor and graduate committee.

IHS 6116 Interprofessional Health Ethics (1). This online course will introduce graduate students in health sciences and biomedical engineering to ethical issues that emerge in teams which contribute to or support health care delivery, services, promotion, research, and the design, manufacture and marketing of health products (e.g. drugs and devices). In five modules, students will have the opportunity on their own and in interprofessional groups to engage critically with controversial topics in clinical ethics, research ethics and public-health/population health, such as assisted reproduction, transplant and regenerative medicine, research integrity and false claims to authorship, the marketing of drugs and medical devices, the treatment of infectious diseases, personal responsibility for health, and social determinants of health. In addition, students will learn the ethical commitments of their own and other health professions to determine where they overlap and where differences in scopes of practice may lead to ethical dilemmas. Prerequisites: Admission to a graduate program in health sciences at FIU or permission of the instructor.

MDC 6102 Community-Engaged Physician II (1-12). This course is a continuation of the Community Engaged Physician I course and the longitudinal

NeighborhoodHELP service-learning program that reinforces concepts offered earlier in the Medicine and Society strand. Through NeighborhoodHELP, the course offers opportunities for students to apply what they have learned and to reflect critically on their service-learning experiences. During their household visits, students will address the social and health needs of households, develop care plans in interprofessional teams, and integrate learning from their Clinical Medicine courses. Prerequisite: Enrolled in College of Medicine.

MDC 6103 Community-Engaged Physician III (1-12). This course is a continuation of the Community Engaged Physician II course and the longitudinal NeighborhoodHELP service-learning program that reinforces concepts offered earlier in the Medicine and Society strand. Through NeighborhoodHELP, the course offers opportunities for students to apply what they have learned and to reflect critically on their service-learning experiences. During their household visits, students will address the social and health needs of households, develop care plans in interprofessional teams, and integrate learning from their Clinical Medicine courses. Prerequisite: Enrolled in College of Medicine.

MDC 7120 Family Medicine Clerkship (1-12). Family medicine is the specialty that focuses on care for the whole person regardless of age, sex, or disease, set within his or her social and community context. The Period 3 Family Medicine Clerkship is a practical opportunity for students to demonstrate progressive skill development, integrating their knowledge of basic and social sciences, clinical skills, professional development, and social accountability. Under the supervision of FIU Family Medicine faculty, students conduct and document histories, physical exams, assessments, and management plans while providing patient education. The course is aimed at preparing students for Period 4 rotations and their future careers as physicians, regardless of the specialty they ultimately choose. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDC 7124 Geriatrics (2). During the 2-week Geriatrics rotation, students will actively participate in the ongoing, daily care of older adults who have a wide variety of acute and chronic illnesses and abnormal physical findings. Throughout the course, students will work with a variety of geriatric focused health professionals – including physicians, nurse practitioners, therapists, certified nursing assistants, and social workers-- as part of the interdisciplinary care team. Students will be involved with and responsible for admission assessments, ongoing care and management for patients, discharge planning and communicating with patients' families. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDC 7180 Obstetrics and Gynecology Clerkship (6-7). The Obstetrics and Gynecology Clerkship offers third-year medical students a 6-week rotation in the core discipline of women's health. The gynecologist and obstetrician are involved in every facet of women's health care maintenance and delivery throughout the patient's lifespan. They provide care from prepubertal and early menarche; act as primary care providers for healthy women; help women experience the joy of normal pregnancy and delivery; and provide care during crises of infertility, pregnancy loss, and cancer. Therefore, a general understanding of the field is important to the development of a well-rounded primary care physician. Medical students are exposed to all aspects of the specialty, including ambulatory clinics, hospital inpatient wards, the operating room, emergency room visits and consults, radiology, and the labor and delivery suite. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDC 7200 Internal Medicine Clerkship (9-12). The Period 3 Internal Medicine Clerkship occurs in consecutive rotations. This clerkship has two components, ambulatory and hospital-based, and is designed to provide medical students with a foundation of knowledge, skills, and attitudes necessary to approach and care for adult patients in outpatient and hospital settings. Students' primary work is done under direct supervision of internal medicine preceptors from the community, the public health system, and the academic setting. The Internal Medicine Clerkship emphasizes basic assessment and management of core common problems in internal medicine, including identifying patient problems, establishing a differential diagnosis, and planning an appropriate evaluation and treatment in preparation for an increased independence in management and therapeutics during Period 4. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDC 7400 Pediatrics Clerkship (7-9). The Core Pediatric Clerkship will provide students with experiences in the evaluation, diagnosis, and management of pediatric patients. Through both inpatient and outpatient clinical experiences, students will be exposed to a wide variety of pediatric patients presenting with acute illnesses, chronic illnesses, and health maintenance needs. Students will actively participate in clinical cases, simulated cases, simulation laboratory scenarios, and didactic lectures. The clerkship emphasizes the basic skills of assessment and management of common pediatric problems. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDC 7600 Surgery Clerkship (9-12). This clerkship will provide students with experience in the recognition and management of surgical disease and in basic surgical techniques. During this clerkship students will develop understanding of the scientific basis of surgical diseases and disorders. Students will then learn to perform assessments and develop differential diagnoses for these surgical presentations. Students will learn through participating in preoperative care, operative procedures, outpatient surgery clinics and didactic experiences on management of surgical diseases. Students will also learn how to evaluate normal and complicated postoperative recovery with surgical inpatients and outpatients. Upon completion of the surgery clerkship, students will also fully understand norms of professional behavior by working effectively with patients and families as a member of the health care team. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDC 7760 Radiology Clerkship (2-3). The Radiology Clerkship takes place entirely at FIU Campus AHC2. The clerkship is a largely self-directed online study of selected resources and developed PowerPoint presentations together with directed reading of required text and articles. Progress in understanding of the concepts provided will be assessed by frequent MCQ examinations. This clerkship will provide medical students with a basic understanding of

the common techniques used in medical imaging, the evidence-based choice of appropriate studies for given clinical symptoms, the potential complications and side effects of such studies and the interpretation of medical imaging studies of common clinical conditions. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDC 7800 Neurology Clerkship (3-5). The Neurology Clerkship takes place at various sites. This clerkship has three components: ambulatory, didactic, and hospital-based. This clerkship provides medical students with experience in general and specialty neurology. Students learn to diagnose and treat nonemergent neurological disorders in the outpatient setting and neurological emergencies in the inpatient setting. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDC 7830 Psychiatry Clerkship (6-7). The course introduces Period 3 medical students to general and specialty psychiatry and allows students to develop competencies in diagnosing and treating psychiatric disorders. The structure of the clerkship ensures that students receive exposure to different clinical practice settings, including emergency department (ED), inpatient, outpatient, and consultation-liaison services. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7010 Directed Clinical Study (0). Students will follow (shadow) a physician at varied institutions to observe daily activities. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7021 Medical Nutrition Elective (2-4). This two-week elective is designed to provide an advanced training in medical nutrition to fourth year medical students. The main objective is to assist students in building a strong foundation in nutrition to improve patients' health in their medical practices while enhancing their interprofessional skills. This course employs a hands-on approach for prevention and treatment of common nutrition-related diseases and conditions (including diabetes, cardiovascular disease, chronic kidney disease, obesity, cancer, dysphagia, and bariatric surgery) across lifespan in both in-patient and outpatient settings. During this course, students will build competencies in medical nutrition therapy, culinary medicine, nutrition counselling, community nutrition, and climate change. About 60% of the course will be offered in the partner clinical settings, 20% in form of case-based culinary learning sessions and 20% in form of interactive didactic sessions. The clinical rotations will be offered in 3 tracks:
-Pediatrics (feeding disorders, nutrition support, type 1 diabetes, obesity, anorexia nervosa, bulimia)
-Surgery (bariatrics, enteral and parenteral tube feeding, dialysis)
-Internal Medicine (obesity, diabetes, cardiovascular, bariatrics, and dialysis)
Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7048 Narrative Medicine Elective (1-12). Pioneered by Rita Charon, narrative medicine trains doctors and other caregivers to use careful listening and reflective writing to forge deeper connections with their patients, resulting in the provision of better care and the promotion of physician wellness. The narrative medicine elective is offered as a two-week rotation, with the option for students to enroll in an additional two-credit longitudinal component. During this elective, students will have the opportunity to explore different types of narrative medicine writing—including the parallel chart, 55-word stories, poetry and using narratives as an advocacy tool. Students will participate in discussion sessions about assigned readings; participate in small group writing workshops; and share their writing with their peers. The course director will create individualized writing plans tailored to students' specific interests, objectives, and clinical schedules. Students will write a total, including drafts, of about 10,000 words. Prerequisite: Enrolled in HWCOM.

MDE 7053 Medicine and Society Elective (1-12). The Medicine and Society elective is designed for individualized study and further pursuit of topics relevant to the Medicine and Society strand's mission to improve health outcomes for underserved communities in the delivery of care through the educational objectives on social determinants of health and policy. Students design an independent study experience under the tutelage of Medicine and Society or other Humanities, Health, and Society faculty. Potential projects include pursuit of a policy initiative in collaboration with Law, a cultural competency project, or an intensive community-based health initiative. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7058 Medical History through Art (1-12). This course will provide an overview of medical world history through the lens of art. The sessions highlight different forms of art (i.e., visual and written) and aim to foster a global perspective. We emphasize certain areas of medicine, including anatomy, physical diagnosis, different types of illness, and the evolution of treatment modalities. The elective also includes a field experience portion, which involves visits to local art museums and other arts institutions. The three principal areas of historical focus are: the four protagonists of our Panther Learning Communities (Hippocrates, Pasteur, Semmelweis, and Anderson); the role of women in medicine; and the evolution of several clinical specialties as portrayed through artistic works. The selected specialties will include obstetrics/gynecology, surgery, psychiatry, pathology, preventive medicine, and radiology. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7059 Community Medicine Practicum (1-4). This longitudinal course aims to increase students' competencies in population health and community needs assessment. Students are evaluated based on their development of a community health written assignment and health promotion plan alongside a service-learning practicum portfolio. A final reflection assignment helps students more deeply understand the importance of social accountability, critical and ethical thinking, and working with underserved/disadvantaged communities. This course develops students' skills and insights into community assessments and efforts that address the social determinants of health on a population level. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7061 Seminars in Physician Leadership Elective (2-4). This course introduces medical students to the foundations of leadership principles and how they apply to the practice of medicine. The course covers four

interrelated topics: 1) foundations of leadership; 2) managing common resources to maximize social welfare; 3) anticipating and responding to change at social, organizational, and individual levels; and 4) paradoxes in leadership in a complex world. Case studies are used to introduce students to critical leadership thinking and problem-based learning. Prerequisite: Enrolled in HWCOM.

MDE 7067 Professional Development and Clinical Medicine Capstone (1-5). The Professional Development Capstone is explicitly designed to address anticipated expectations of Professionalism in the first few months of residency and beyond. Additionally, the Capstone in Professional Development is intended to serve as a review of relevant topics for Internship and the introduction of specific practical topics not otherwise covered in the curriculum.
The Clinical Medicine Capstone is a yearlong required course for all Period 4 medical students. It consists of two components. The first component is a monthly online module including a clinical reasoning case exercise, several EKG and radiology challenge questions, and a short quiz based on a review article covering a topic relevant to internship. The second component, held during the final month of medical school, is a week-long transition to internship bootcamp consisting of small group and individual role play and standardized patient activities designed to simulate common clinical scenarios encountered during internship. Completion of each of the monthly modules and attendance at the bootcamp are mandatory and will be tracked. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7073 One Health Elective (2-4). This four week clinical elective is designed to give medical students exposure to the field of veterinary medicine and the One Health medicine model. In this course, students will strengthen collaborative and transdisciplinary approaches, with the goal of achieving optimal health outcomes recognizing the interconnection between people, animals, plants, and their shared environment. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7092 Teaching Skills Elective (1-12). This is a non-clinical elective offered for two or four continuous weeks, designed to help students improve their teaching and/or curricular development skills through small-group, self-directed, experiential learning, and mentor feedback and engagement in authentic work. In this course, students will be provided with opportunities to learn about the foundational principles of adult learning theory, curriculum design, pedagogy, assessment, and teaching. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7100 Community Medicine Elective (1-12). This intensive ambulatory block will serve as a community based primary care experience. Under the supervision of community based FIU faculty, the student will assume a level of independence appropriate to his/her skills and training level. Students will practice patient-centered communication, diagnostic and management skills, clinical reasoning, management of common ambulatory clinical issues, and patient education and negotiation. Experiences may include any primary care specialty (e.g. family medicine, internal medicine, pediatrics, obstetrics and gynecology, psychiatry). Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7102 Public Health Elective (1-12). This elective introduces students to the practice of public health for physicians. Students are assigned a site preceptor (MD/PhD or MD/MPH). Experiences and activities are tailored to individual student interests; a minimum of 50 percent of the rotation is spent at health department clinics. Students create and present a final public health research project. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7108 LGBTQ + Healthy Equity Elective (1-12). This four-week elective will provide medical students with the essential background and tools needed to provide high-quality and culturally appropriate care to patients who identify as LGBTQ (Lesbian, Gay, Bisexual, Transgender, Queer, and Questioning), gender non-conforming, or who are born with differences of sex development. Medical students will choose to follow a clinical and/or public health track. Through the clinical track, students will diagnose, treat and provide preventative care to LGBTQ and gender non-conforming patients through clinical assignments with health providers who work primarily with this patient population. Through the public health track, students will assess and intervene regarding the behavioral, social and cultural determinants of health and their impact on the health status of LGBTQ populations. In both tracks, students will produce a public health, research, medical education, or advocacy project related to LGBTQ health. Prerequisite: Enrolled in Herbert Wertheim College of Medicine

MDE 7109 Fundamentals of Population Health Elective (2-4). This elective will provide medical students the essential background to understand the role of population health in medicine. Medical students will have an opportunity to formulate their own Quality Improvement project and/or become involved with an ongoing QI project in an area of their choosing. Quality Improvement projects can be designed towards improving patient outcomes or addressing the social determinants of health using tools such as the Health Risk Profile. This elective is available in both two-week and four-week tracks. In addition, students can use this elective to complete research projects that were initiated in the summer research course or population health work group, if approved by the course director. Through reading materials, the completion of assigned modules and cases, and discussions with faculty, students will develop the skills needed to meaningfully participate in population health initiatives in their future medical careers. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7120 Family Medicine Elective (1-12). This intensive ambulatory or inpatient block is particularly suited to students interested in primary care. Students will be assigned to either an inpatient or outpatient Family Medicine experience. Under the supervision of FIU faculty, the student will assume a level of independence appropriate to a fourth year student. For each patient s/he sees, the student will be responsible for the history and physical, writing a note, presenting the case to the supervising faculty member, and putting the agreed-upon management plan into action. Through this process, students will hone their patient communication skills, diagnostic skills and clinical reasoning, development of

management plans for common ambulatory or inpatient clinical scenarios, and execution of patient education. Students will attend all departmental rounds and teaching activities, as well as complete any relevant reading assignments. Students will be provided with regular feedback from the supervising physician. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7121 Primary Care Sports Medicine Elective (1-12). This is an outpatient clinical rotation that provides a comprehensive spectrum of evaluation and management of both medical illness and orthopedic injury as it relates to musculoskeletal medicine. Students will diagnose, treat and help prevent general medical problems and injuries in athletes regardless of gender, or level of competition. The care of the athlete will include performance of pre-participation sports physicals, assessment of common medical problems and musculoskeletal injuries, as well as treatment and rehabilitation of these conditions. The student will learn nonsurgical treatments for acute and overuse musculoskeletal problems to minimize time away from sports, school or work. The student will also treat chronic problems such as osteoarthritis to help minimize disability and maximize function, develop skills in conservative fracture management with splinting and casting and may be involved in sideline coverage of sporting events. The student will also be exposed to musculoskeletal ultrasound diagnostics and injections. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7140 Geriatric Medicine Elective (1-12). The Geriatric Medicine Elective is designed to allow fourth-year medical students the opportunity to participate with increased responsibility in the care of geriatric patients. Students learn the various components of a comprehensive work-up (e.g., functional scales, mini-mental exam). Students participate with the geriatric team in hospital consultations and follow-ups. This rotation is designed to supplement and introduce students to aspects of geriatrics not fully covered on a busy internal medicine inpatient and outpatient service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7161 Obstetrics and Gynecology Elective (1-12). This fourth year clinical elective in Obstetrics and Gynecology offers the student the opportunity to enhance his/her skills in outpatient diagnosis and management. The student is expected to adhere to the schedule agreed upon with the FIU faculty member, including call duty, rounding, and other clinical responsibilities (ie. those related to surgery, outpatient clinic, or the labor floor). The rotation may be tailored based on the student's specific goals and learning objectives; the student should reach out to the course director to discuss special considerations. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7162 Gynecologic Oncology Elective (1-12). This four week elective is intended for students who have already completed the basic core clerkship in OB/GYN and are interested in enhancing their exposure to the subspecialty of Gynecologic Oncology. The student will be provided experience in the inpatient and outpatient management of patients with pre-malignant and malignant conditions of the genital tract. Prerequisite: Enrolled in Herbert Wertheim College of Medicine.

MDE 7166 Gynecologic Surgery Elective (1-12). This four week course will introduce the student to gynecologic care in the adult female, ranging from routine care to the evaluation and surgical treatment of complex gynecologic conditions. Prerequisite: Enrolled in Herbert Wertheim College of Medicine.

MDE 7180 Perinatology/Maternal Fetal Medicine Elective (1-12). This Period 4 clerkship allows students to experience the full range of maternal-fetal medicine and familiarizes students with the diagnosis and management of pregnant patients who have obstetrical, medical, or surgical complications. Students receive experience in ultrasound, genetics, genetic counseling, and the management of high-risk obstetrical patients. Students follow patients through the inpatient antepartum service and participate in the care of high-risk obstetrical patients admitted to the hospital. Attendance at the following conferences is required: FHR tracing and labor management review, high risk obstetrics conference, grand rounds, prenatal - neonatology conference, and journal club. Students are required to take call on the Labor and Delivery Unit one night per week. Prerequisite: Enrolled in Herbert Wertheim College of Medicine.

MDE 7201 Advanced Internal Medicine (1-12). The Advanced Internal Medicine (IM) rotation allows fourth-year students the opportunity work closely with IM hospitalist physicians as integral members of the IM hospitalist service. Students provide longitudinal care for hospitalized patients from the time of consultation in the emergency room to the patient's discharge and/or transfer. Students' schedules vary according to the needs of each site; some students may be on call during the rotation. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7204 Hospitalist Service Elective (1-12). The four week Hospitalist rotation is designed to allow fourth year students the opportunity to participate with increased responsibility in the care of patients admitted to the internal medicine/hospitalist service. Students provide longitudinal care for hospitalized patients from the time of consultation in the emergency room to the patient's discharge and/or transfer. Students' schedules vary according to the needs of each site; students are expected to take call every fourth night. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7220 Cardiology Elective (1-12). The objective of this hospital-based rotation is for students to improve their understanding of the pathophysiology of common cardiovascular diseases; the evaluation of acute and chronic cardiac disorders, including indications for invasive and non-invasive studies and EKG interpretation; the appropriate history and physical exam technique, with particular attention to the cardiovascular exam; and the differential diagnosis and first line treatment of prevalent cardiovascular disorders, with an emphasis on disease prevention. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7245 Pulmonology Elective (1-12). Through time spent both on the inpatient pulmonary consultation service and in the outpatient setting, this rotation will prepare students to effectively care for common cardiopulmonary disorders. In particular, students will be exposed to radiological interpretation of chest imaging and the

interpretation of pulmonary function tests. Depending on the site, students will be part of a team with fellows and residents or will be under the direct supervision of a pulmonary specialist. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7250 Dermatology Elective (1-12). This elective course is designed to give the student exposure to clinical dermatology, including the diagnosis and management of common skin diseases seen in general practice. The majority of the student's time will be spent working with faculty members in the outpatient clinical setting; although there may be some opportunities for inpatient consultations and other work. Upon completion of this elective, the student will know the clinical features of the most commonly encountered skin diseases and will be familiar with the modalities available for their management. This elective will be useful to students planning a career in a primary care specialty or dermatology. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7260 Endocrinology Elective (1-12). Students will see patients with both common and rare disorders of the Endocrinology system in the adult out-patient setting and the inpatient consultation service. Students are expected to longitudinally follow patients seen as part of the inpatient endocrinology consult service. Students are expected to prepare, as assigned, topic presentations and case discussions during the week. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7270 Gastroenterology/Hepatology Elective (1-12). This course will consist of a four week rotation, which will include inpatient and outpatient gastroenterology and hepatology. Throughout the rotation, students will be assuming primary responsibility of patients under the supervision of gastroenterology attendings. The experience will also allow for participation in varied endoscopic procedures, such as esophageal manometry, and upper and lower endoscopy. During the week, students will participate in pathology and radiology conferences geared to gastroenterology and hepatology cases. The course will concentrate on teaching students how to interpret clinical information and develop therapeutic decision making. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7280 Hematology-Oncology Elective (1-12). This rotation is intended to prepare students to learn a basic approach to evaluation, diagnosis, staging and treatment of patients with blood diseases and cancer. Through exposure to patients with these diseases, students will improve their physical diagnosis skills, recognition of complications of disease, and understanding of therapeutic issues. Students will learn concepts of palliative care, end of life and hospice care. The rotation is mainly inpatient-consult service with some outpatient exposure. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7301 Allergy and Clinical Immunology Elective (1-12). Students actively participate in all outpatient clinics to ensure a broad and comprehensive experience. Where pertinent to our training goals, students will also have the opportunity to evaluate inpatients. Emphasis will be placed on history-taking and the physical examination as they relate to patients with allergic and immunologic conditions. Students will develop basic skills in the evaluation of and interpretation of immunological studies performed on blood specimens, pertinent imaging studies, pulmonary function testing and allergy skin testing. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7310 Rheumatology Elective (1-12). This rotation includes office and hospital consultation. The objective is to improve the student's understanding of the pathophysiology, clinical presentation, differential diagnosis, and treatment of common rheumatologic disorders, including the evaluation of soft tissue rheumatism, acute and chronic arthritis, autoimmune connective tissue disorders, and indications for arthrocentesis and tendon injections. Students learn the interpretation of the most common laboratory tests used in rheumatic conditions. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7320 Infectious Disease Elective (1-12). This elective rotation is intended to prepare students to obtain, under direct supervision of an infectious disease faculty, the necessary diagnostic and therapeutic skills to effectively care for patients with infectious disorders from the surgical, transplant, intensive care, OB/GYN, hematologic/oncologic, and general medicine services in a community hospital. Prerequisite: Enrolled in Herbert Wertheim College of Medicine.

MDE 7340 Intensive Care Unit Elective (1-12). This rotation is intended to prepare students to obtain necessary diagnostic and therapeutic skills to effectively care for patients diagnosed with critical medical disorders. Students work under direct the supervision of the ICU attending physician or as a member of a teaching team under the supervision of the attending physician, pulmonary/critical care fellow, and IM residents. Students assist in the admission, evaluation, and management of patients admitted to the Medical Intensive Care Unit. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7350 Nephrology Elective (1-12). This 2 week or 4 week elective offers students the opportunity to learn about the diseases of the kidney and become more skilled in their management. Students will participate in the care of patients with medical renal disease that are seen in the office and also on the renal inpatient consult service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7400 Pediatric Hospitalist Services Elective (1-12). Medical students will examine patients admitted to the Inpatient Hospitalist Services, write daily entries into the medical record, develop and execute plans for patient care, enter orders into the medical record, and make daily rounds on all patients. Students will participate in all academic activities, including simulation training and didactic lectures, provided to the students, residents, and fellows of the Hospitalist Service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7401 Inpatient Pediatrics Elective (1-12). As a member of the inpatient pediatrics care team, students will hone their history and physical exam skills, work on developing a differential diagnosis, and begin to develop and execute diagnostic and treatment plans. The hospital has organized a program for medical students to expand

their practical knowledge of pediatrics. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7404 Pediatric Ambulatory Services Elective (1-12). The student, under direct physician supervision, will participate in the diagnosis and treatment plan for emergency and outpatient cases. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7405 Advanced Pediatric Medicine (1-12). Medical students will examine patients admitted to the Inpatient Hospitalist Services, write daily entries into the medical record, develop and execute plans for patient care, enter orders into the medical record, and make daily rounds on all patients. Students will participate in all academic activities, including simulation training and didactic lectures, provided to the students, residents, and fellows of the Hospitalist Service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7420 Pediatric Cardiology Elective (1-12). This rotation will occur in both the inpatient and outpatient settings, with medical students participating in the care of patients admitted to cardiology service, patients requiring cardiac consultation, and outpatient care visits. Medical students are expected to examine patients admitted to the hospital and make daily rounds on all patients on the cardiology service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7422 Pediatric Cardiovascular Surgery Elective (1-12). Medical students will examine patients admitted to the Cardiovascular Surgery service, write daily entries into the medical record, develop plans for care, enter orders into the medical record, and make daily rounds on all patients. Students will participate in all academic activities, including simulation training and didactic lectures, provided to the students, residents, and fellows of the Cardiovascular Surgery. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7425 Pediatric Pulmonology Elective (1-12). Medical students work closely with the Division of Pediatric Pulmonology and the Respiratory Therapy Department. Students are exposed to the importance and value of pulmonary function testing in the diagnosis and follow-up of acute and chronic pulmonary problems, interpretation of blood gases, and the assessment and management of patients seen in the division. Special emphasis is placed on the student's understanding of the interpretation of blood gases in the presence of different medical problems and the pathophysiology of pulmonary diseases. Emphasis is also given to clinical aspects of asthma, bronchopulmonary dysplasia (BPD), and cystic fibrosis. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7430 Pediatric Endocrinology Elective (1-12). Under the supervision of FIU faculty, students will see patients with both common and rare disorders of the Endocrinology system in the pediatric out-patient setting and the inpatient consultation service. Students are expected to longitudinally follow patients seen as part of the inpatient endocrinology consult service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7433 Pediatric Gastroenterology Elective (1-12). Medical students will perform routine histories and physical examinations on all gastroenterology patients, with emphasis on clinical diagnosis and treatment. Students are expected to take an active role in the management of gastroenterology patients in both inpatient and outpatient settings. Students will also participate in endoscopic procedures. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7438 Pediatric Genetics Elective (1-12). The student will participate in the evaluation and management of children with metabolic/genetic disorders or of those children suspected of having such disorders. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7440 Pediatric Hematology Elective (1-12). Medical students will evaluate and follow hematology and oncology patients in both the inpatient and outpatient settings. Students will attend all hematology-oncology educational conferences. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7445 Pediatric Nephrology Elective (1-12). Students will participate in the evaluation and management of children with renal diseases. They will do so by performing histories and physical examinations, evaluating the laboratory data obtained, and formulating a therapeutic plan. A second portion of this elective will consist of the active participation at conferences in which the pathology of the patients will be discussed. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7450 Pediatric Allergy and Clinical Immunology Elective (1-12). The student, under direct supervision, will participate in clinics and private patient care in the area of allergy and immunology. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7454 Pediatric Infectious Disease Elective (1-12). Medical students examine patients admitted to the Pediatric Infectious Diseases Unit, write daily entries into the medical record, develop plans for care, enter orders into the medical record, and make daily rounds on all patients. Students participate in all academic activities, including simulation training and didactic lectures, provided to the students, residents, and fellows of the Pediatric Infectious Diseases Unit. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7456 Pediatric Rheumatology Elective (1-12). Students, under direct supervision, will participate in the evaluation and management of patients with rheumatologic disorders. During this rotation, students will be exposed to the wide spectrum of rheumatologic disorders of infancy, childhood and adolescence, from Systemic Lupus Erthematosus and Juvenile Arthritis to the still ill-defined Vasculitis. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7460 Pediatric Neonatology Elective (1-12). Medical students will examine patients admitted to the Pediatric Neonatology Unit, write daily entries into the medical record, develop plans for care, enter orders into the medical record, and make daily rounds on all patients. Students will participate in all academic activities, including simulation training and didactic lectures, provided to the students and residents of the Neonatology Unit. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7462 Pediatric Intensive Care Elective (1-12). Medical students will examine patients admitted to the Pediatric Intensive Care Unit, write daily entries into the medical record, develop plans for care, enter orders into the medical record, and make daily rounds on all patients. Students will participate in all academic activities, including simulation training and didactic lectures, provided to the students, residents, and fellows of the Pediatric Intensive Care Unit. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7470 Pediatric Neurology Elective (1-12). The medical student will perform histories and physical examinations on patients with neurological problems, develop diagnostic and treatment plans, and discuss them in detail with a faculty member. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7490 Pediatric Surgery Elective (1-12). This rotation will give students more advanced exposure to the practice of pediatric surgery through hands-on instruction in the in-patient management of surgical patients in the NICU, PICU, and general floors. By the end of the rotation, students will understand the unique anatomic, physiologic, metabolic issues in infants, children, and adolescents with surgical problems. Students will be able to demonstrate competency in the diagnosis and management of common pediatric surgical issues. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7492 Advanced Pediatric Surgery (1-12). Advanced Pediatric Surgery, combining in-patient, emergency, and out-patient experiences, gives the student, under the direction of FIU faculty, increased responsibility for decisions made for the total care of the pediatric surgical patient. This rotation will expose students to the unique anatomic, physiologic, and metabolic issues seen in infants, children, and adolescents with surgical issues. Students will gain hands-on experience in the in-patient management of surgical patients in the NICU, PICU, and general wards; with focus on hands-on instruction and experience in pre- and post-operative care. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7494 Pediatric Orthopedic Surgery Elective (1-12). The section of Orthopedics presents to the fourth-year student a comprehensive outline of the spectrum of orthopedic surgery as practiced in a pediatric setting. The student is involved in an intensive in-patient experience and has increased responsibility, involving primary workup of new patients and writing orders. The student also performs procedures such as evaluating patients, taking an orthopedic history, performing a physical examination of the musculoskeletal system, assisting in the operating room, and being involved in postoperative care. The student is involved in the management of orthopedic trauma and is expected to participate with the orthopedic surgery team in the diagnosis, surgical treatment, and postoperative management of orthopedic trauma patients. The student may participate directly with patients in the emergency department, operating room, intensive care unit, and the orthopedic unit. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7497 Pediatric Urology Elective (1-12). In this rotation, the student will acquire knowledge of pediatric urology and urologic anatomy; develop an understanding of and ability to perform a pediatric urologic history and physical exam; interview and present patients; develop an understanding of emergent pediatric urologic issues as well as common urologic issues; develop an understanding of a spectrum of pediatric urologic procedures/surgeries; develop an understanding of perioperative urologic issues of both urologic and non-urologic patients; and develop an understanding of the role of a pediatric urologist in the care of patients and when an appropriate referral should be made (emergent or routine). The student will function as a supervised member of the urologic team, interacting with faculty and resident staff and participating in urologic clinics and in the operating room. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7500 Pediatric Dermatology Elective (1-12). Medical students will observe the diagnosis and treatment of dermatologic problems in the weekly Dermatology Clinic. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7505 Pediatric Emergency Medicine Elective (1-12). Medical students will examine and evaluate patients presenting to the Pediatric Emergency Room. Students are expected to make entries into the electronic medical record, develop plans for care, and enter orders. Students will participate in all academic activities, including simulation training and lectures, provided to the Pediatric Emergency Medicine fellows and Pediatric residents. Students are expected to expand their knowledge of Pediatric Emergency Medicine with a focus on acute airway management, acute evaluation of the pediatric trauma patient, evaluation of the pediatric acute abdomen, fever in children, and the management of minor soft tissue injuries. Skills and knowledge will be acquired through directed readings, patient care, and simulation scenarios. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7531 Anatomic and Clinical Pathology Elective (1-12). This elective will provide an introduction and overview to the practice of pathology and is aimed at the student who may be considering pathology as a career. The student will be exposed to anatomic pathology (surgical, autopsy and cytopathology) and clinical pathology (clinical chemistry, hematology, microbiology and transfusion medicine). Molecular pathology will also be touched upon. The student will have access to the entire laboratory but will spend the most time in sign-out sessions and clinical conferences with the attending pathologists and residents. The student will learn pathology but will also experience what a career in pathology is like in a cordial setting surrounded by enthusiastic physicians. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7537 Pediatric Pathology Elective (1-12). This elective will allow the student to become familiar with, observe, and participate in the daily activities in the pediatric pathology department of a large tertiary care Children's Hospital. Students will be exposed to both anatomic pathology and clinical laboratory medicine with emphasis on neonatal and pediatric disease processes. They will also gain an appreciation of performance of laboratory tests and their interpretation, quality control and cost-effectiveness. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7550 Ophthalmology Elective (1-12). The clinical rotation in ophthalmology provides students with a focused and in-depth experience in the evaluation, diagnosis, and management of ophthalmic conditions. Students spend substantial time in the clinic and the operating room in general ophthalmology or their ophthalmologic subspecialty of interest. Students are expected to be actively involved in the workup of patients with various presenting concerns; and to interpret and present their findings and suggested clinical management to the attending physician. Students also have the opportunity to perform research in a preferred area of interest. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7570 Orthopedic Surgery Elective (1-12). The section of Orthopedics presents to the student a comprehensive outline of the spectrum of orthopedic surgery as practiced in a community hospital. The student is involved in an intensive in-patient experience and has significantly increased responsibility, involving primary workup of new patients and writing orders. The student performs procedures such as evaluating patients, taking an orthopedic history, and performing a physical examination of the musculoskeletal system. The student should improve his or her ability to manage complex patient presentations, including diagnosing and treating common adult orthopedic problems. The student should develop advanced skills in fracture treatment and cast application. He or she should be involved in joint replacement surgery and management of postoperative adult orthopedic patients. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7580 Physical Medicine and Rehabilitation Elective (1-12). This elective offers students experience in the diagnosis and management of patients with a variety of neuro-muscular diagnoses such as stroke, spinal cord injury, traumatic brain injury, and neuro-degenerative disorders such as multiple sclerosis. Students may treat patients with musculo-skeletal disorders such as amputation, total hip arthroplasty, total knee arthroplasty, and multiple trauma victims. Students attend physical, occupational, and speech therapy sessions with their patients to learn the daily process of rehabilitation. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7583 Physical Medicine and Rehabilitation and Cancer Rehabilitation Elective (2-4). Medical students will work with attending physiatrists (physicians specializing in physical medicine and rehabilitation) on a daily basis. They will be taught basic principles of rehabilitation medicine as they apply to spine and musculoskeletal medicine and the care of cancer patients, and exposed to various diagnostic tests used to assess common neuro-musculoskeletal conditions in this population, such as electro diagnostic testing and musculoskeletal ultrasound. They will also be part of discussions on the treatment of these conditions, learning about the role of medications, injections and rehabilitative therapies. The medical student will be asked to do a brief presentation at the end of the rotation on a cancer rehabilitation topic. Opportunity to be involved in a research project can be discussed based on the student's interest. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7590 Oral and Maxillofacial Surgery Elective (1-12). This elective is an opportunity for medical students to expand their knowledge in anatomy and physiology of the oral cavity, maxillofacial region, the neck, and their adnexal structures to the extent of being capable of recognizing abnormal findings. Students also learn about the surgical management of oral and head and neck pathology and the correction of congenital and traumatic deformities. Acute trauma care is a major component of this service. Students have the opportunity to perform minor procedures in the hospital clinic, as well as the emergency room. Students observe and participate in surgical procedures involving oral and maxillofacial pathology, IV sedation, infections, major hard and soft tissue trauma, reconstruction, and dento-craniofacial deformities. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7592 Otolaryngology/ENT Elective (1-12). This clinical elective exposes medical students to the surgical subspecialty of Otolaryngology-Head and Neck Surgery, also known as Ear, Nose and Throat (ENT). Medical students work directly with clinical team in the operating room, inpatient setting, and outpatient clinic caring for patients with a variety of medical and surgical diseases affecting the head and neck region. Students are expected to be an active member of the patient care team; they should participate in diagnostic evaluations, present their findings to the attending physician, and synthesize assessments and plans. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7600 General Surgery Elective (1-12). The student works directly with general and vascular surgeons. During the rotation, the student is exposed to all phases of patient care, including outpatient clinic, the operating room and hospital. Emphasis will be placed on the initial assessment, physical examination and preoperative evaluation of surgical patients. When appropriate, the student will follow individual patients whose cases are particularly instructive. While no formal projects are required, ample opportunity exists for independent projects as dictated by the student's special interests. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7601 Advanced General Surgery (1-12). Advanced General Surgery, the student works directly with general and other subspecialty surgeons. During the rotation, the student is exposed to all phases of patient care, including outpatient clinic, the operating room and hospital. Emphasis will be placed on initial assessment, physical examination and preoperative evaluation of surgical patients. When appropriate, the student will follow individual patients whose cases are particularly instructive. While no formal projects are required, ample opportunity exists for independent projects as dictated by the student's special interests. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7605 Vascular Surgery Elective (1-12). The goal of the rotation is to provide students with a thorough understanding of the diseases of the peripheral vascular systems - arterial, venous, and lymphatic. Those considering a career in vascular surgery can gauge if the specialty meets their interests and skills while those planning to choose other fields can learn more than enough to know when referral to a vascular surgeon is

appropriate. Students will work with our vascular surgeons in the office, hospital wards, operating room, interventional suite, and wound center to learn the about the diagnosis and management of the full spectrum of vascular diseases. They will be exposed to patients with carotid artery disease, aortic and peripheral artery aneurysms, peripheral artery occlusive disease, dialysis access needs, venous thrombosis, varicose veins, and chronic wounds. They will be able to assist in open surgeries and in balloon angioplasty/stent procedures. There will also be opportunities for clinical research if desired. There will be no night or weekend call. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7632 Cardiothoracic Surgery Elective (1-12). The goal is to provide fourth year medical students with a special interest in Cardiothoracic Surgery with the opportunity to become more familiar with the pathophysiology and clinical presentation of the most common cardiothoracic diseases. It is expected that the medical student will be part of the Cardiothoracic Surgical team involved in the daily routine including the operating room, the cardiothoracic intensive care unit and floor. Some exposure to catheter based therapy in the hemodynamics room (cath lab) will also be included. Because of the short duration of the rotation, students will have exposure to both the cardiac and thoracic pathways. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7640 Bariatric and Minimally Invasive Surgery Elective (1-12). This 4-week rotation will give the student exposure to surgical treatments for morbid obesity and the use of minimally invasive surgery in a number of conditions affecting the GI tract, abdominal wall, endocrine glands and spine. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7645 Surgical Oncology Elective (1-12). The goal of this elective is to introduce the student to the surgeon's role in the multidisciplinary management of patients with cancer. The program includes the evaluation and management of patients with malignant and benign solid tumors and their surgical management. The full spectrum of care includes medical oncology, radiation oncology and nuclear oncology. The experience will include outpatient clinics, in-patient rounds/consults, surgery and exposure to clinical trials and clinical research. The students will attend and present at weekly multidisciplinary tumor conferences, attend cancer committees, and participate in monthly journal clubs. The opportunity to participate in clinical research will be made available to interested students. Prerequisite: Enrolled in Herbert Wertheim College of Medicine.

MDE 7650 Neurosurgery/Neuroscience Elective (1-12). The 4-week Neurosurgery Elective will assign interested students to faculty neurosurgeons at one of our affiliated facilities. This rotation presents the student the broad-spectrum of neurosurgical conditions and procedures encountered in a tertiary hospital setting. Students are expected to be involved in all aspects of pre-operative, intra-operative, and post-operative care; including care provided in the inpatient, outpatient, and surgical settings. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7660 Plastic and Reconstructive Surgery Elective (1-12). The Plastic and Reconstructive Surgery Elective is a 4 week rotation designed to expose students to a wide variety of clinical problems and techniques commonly encountered in the field of plastic surgery. Students will be exposed to all subspecialties in plastic surgery, including general reconstructive surgery, pediatric/craniofacial surgery, hand surgery, and aesthetic surgery. Students will rotate through several offices/hospitals during the rotation and will be expected to participate in pre- and post-operative office visits, hospital visits, and surgeries. In addition, students will be expected to master wound closure techniques and other basic plastic surgery technical skills. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7661 Breast Surgery Elective (1-12). The Breast Surgery Elective focuses exclusively on the clinical management of benign and malignant breast diseases. The student will become proficient in taking a history, performing a breast examination, and developing a differential diagnosis for breast patients. The student will learn about the surgical management of breast cancer and the integration of other modalities in the overall management of this disease. Working 1-on-1 with an FIU faculty attending surgeon, the student will have some responsibility for inpatient care and will have the opportunity to be first assistant in the operating room. Weekly didactic sessions with the attending physician will cover the most important aspects of breast cancer including biology, diagnostics, prevention, and treatment. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7675 Urology Elective (1-12). In this rotation, the student will acquire knowledge of Urology and urologic anatomy; develop an understanding of and ability to perform a urologic history and physical exam; interview and present patients; develop an understanding of emergent urologic issues as well as common urologic issues with an emphasis on the acute scrotum, urinary tract infections, urinary stones, incontinence, benign prostatic hyperplasia, erectile dysfunction, hematuria and prostate cancer/PSA testing by both didactic and practice based learning; develop an understanding of a spectrum of urologic procedures/surgeries, including foley catherization, cystoscopy, and transrectal ultrasound and prostate biopsy by observation and participation; develop an understanding of peri-operative urologic issues both urologic and non-urologic patients via inpatient encounters; and develop an understanding of the role of a Urologist in the care of both male and female patients and when an appropriate referral should be made (emergent or routine). The student will function as a supervised member of the urologic team, interacting with faculty and resident staff and participating in urologic clinics and in the operating room. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7676 Colorectal Surgery Elective (1-12). This 4-week rotation will introduce the student to the diagnosis and management of disorders affecting the colon and rectum; including conditions such as Crohn's disease, Ulcerative colitis, familial polyposis, colorectal cancer and disorders of evacuation. Students will be an integral member of a patient care team that includes both FIU faculty attending surgeons and surgical residents.

Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7682 Trauma Surgery Elective (1-12). This elective provides the 4th year medical student experience in the evaluation and treatment of the patient with severe trauma. The student will be initially involved in the assessment and stabilization of the patient in the Trauma Room in the ER and will then be involved in the preoperative management, intraoperative treatment and postoperative recovery of the patient. Students will be exposed to emergency interpretation of imaging and diagnostic studies, ventilatory management, invasive monitoring procedures and interventional procedures such as chest tube insertion, thoracentesis and paracentesis. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7700 Anesthesiology Elective (1-12). This rotation will allow the student supervised hands-on participation in preoperative anesthesiology evaluation, creation of an anesthesia plan, intravenous line placement, induction of general anesthesia and airway management, monitoring of anesthesia, and emergence and postoperative care. Students will also be involved in other procedures commonly performed by anesthesiologists, such as regional blocks for pain control. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7701 Pediatric Anesthesiology Elective (1-12). This rotation will allow the student supervised hands-on participation in preoperative anesthesiology evaluation, creation of an anesthesia plan, intravenous line placement, induction of general anesthesia and airway management, monitoring of anesthesia, emergence and postoperative care in pediatric patients. Students will also be involved in other procedures commonly performed by anesthesiologists, such as regional blocks for pain control. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7710 Emergency Medicine Elective (1-12). This rotation is intended to make the student familiar with the wide range of clinical conditions, minor to major which are responsible for the patient seeking care at an Emergency Room. The student will practice skills in the recognition and management of acute life-threatening conditions and exacerbation of serious disease in a strictly supervised setting. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7763 Diagnostic Radiology Elective (1-12). This rotation is intended to give students an introduction to the basics of diagnostic imaging, the appropriate choice of imaging method for given clinical problems, and the side-effects and risks associated with each. Students will become familiar with imaging findings in common clinical conditions. The rotation will involve online modules, small group sessions and 'virtual' and real reading room sessions. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7765 Interventional Radiology Elective (1-12). This rotation is intended to give students an introduction to the basics of Interventional Radiology (IR); including IR techniques and procedures, and an understanding of the field's role in the management of medical and surgical problems. Students will participate in the workup, treatment and follow-up of patients undergoing various IR procedures. Students will also gain experience in the interpretation of radiologic imaging such as ultrasound, CT, and MRI. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7769 Pediatric Radiology Elective (1-12). This elective will expose students to the essentials of pediatric radiology. Students will spend time working with radiologists who are reading plan films, ultrasounds and cross-sectional imaging studies; as well as those who are performing basic radiologic procedures including fluoroscopy and nuclear medicine. By the end of the rotation, students will be familiar with topics and concerns specific to imaging studies in the pediatric population. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7780 Radiation Oncology Elective (1-12). This rotation provides students with supervised participation in the care of radiation oncology patients. This includes the diagnostic/clinical evaluation of the patient's disease and the development of treatment plans involving radiation therapy. Students are exposed to state-of-the- art radiation oncology equipment and, during the planning phase, are shown the use of CT imaging with plain and contrast-enhanced techniques for therapy planning and positioning of the patient for radiation treatment. They are exposed to the management of the most common tumors seen in our community, including breast, prostate, lung, GI, skin, and head and neck cancer. Students are introduced to palliative care and the incorporation of integrative medicine in the overall care of the patient. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7800 Neurology Elective (1-12). This course is designed to give students an advanced experience in the field of Neurology. By the completion of the rotation, students will be able to perform a detailed neurological examination and describe the neuro-anatomic phases of the examination and any findings. There will be an emphasis of the diagnosis and treatment of common neurologic conditions including headache, neck pain, back pain, peripheral neuropathy, dementia, seizures, multiple sclerosis, pain management, cerebrovascular disease, and altered mental status. Students will additionally receive basic training in reading EMG/NCS and EEG. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7807 Neuro-Oncology Elective (4). The management of patients with primary and metastatic brain malignancies is a complex endeavor. Treatment strategies for these patients often involve a multi-disciplinary approach. This rotation will provide exposure to all of the main modalities who care for patients with neurologic malignancies including radiation oncology, neurosurgical oncology, and medical neuro-oncology, with a focus on medical neuro-oncology. Outside of the core subspecialties, there are opportunities for time in neuro-radiology, review of current surgical cases with the pathology department, and exposure to rehab and palliative medicine through subspecialty

MDE 7820 Pain Management Elective (1-12). Students will rotate in an ambulatory setting at a pain management practice under the direct supervision of an FIU faculty member. This rotation will provide students with exposure to the evaluation and management of acute and chronic

pain including: upper and lower back pain; chronic arthritis; disk disease; radicular and neuropathic pain syndromes; and pain associated with malignancy. Students will gain an understanding of common procedures used in pain management: local anesthesia, joint injections, epidural injections, peripheral nerve blocks, and trigger point injections. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7843 Community Psychiatry Elective (1-12). This 2-week or 4-week rotation allows Period 4 medical students to refine the skills they acquired in the Period 3 Psychiatry Clerkship through further inpatient, outpatient and emergency psychiatry experiences. Students will focus on honing their skills related to psychiatric interviewing, diagnostic reasoning, and treatment planning. Students will participate in the initial assessment of patients presenting for admission and will follow inpatients throughout their hospital stay. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7845 Advanced Psychiatry Elective (1-12). This rotation allows Period 4 medical students to become familiar with the clubhouse international model of psychosocial rehabilitation for people with mental illness by immersing themselves in the patient care tasks of the work-unit. To accomplish this, students will interview and contribute to diagnosing and creating treatment plans for people with mental illness who are homeless, victims of human trafficking, involved in jail diversion programs and people with neurodevelopmental disorders. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7862 Adult Inpatient Psychiatry Elective (1-12). This 2-week or 4-week rotation allows Period 4 medical students to refine the skills they acquired in the Period 3 Psychiatry Clerkship through further inpatient and emergency psychiatry experiences. Students will focus on honing their skills related to psychiatric interviewing, diagnostic reasoning, and treatment planning. Students will participate in the initial assessment of patients presenting for admission and will follow inpatients throughout their hospital stay. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7871 Child Inpatient Psychiatry Elective (1-12). The 2-week or 4-week rotation exposes Period 4 medical students to child and adolescent psychiatry in a hospital setting and allows them to refine the skills they acquired in the Period 3 Psychiatry Clerkship through further inpatient and emergency psychiatry experiences. Students will focus on honing their skills related to psychiatric interviewing, diagnostic reasoning, and treatment planning. Students will participate in the initial assessment of patients presenting for admission and will follow inpatients throughout their hospital stay. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7880 Forensic Psychiatry Elective (1-12). This rotation exposes interested Period 4 medical students to the interactions between the psychiatric and legal systems by providing the opportunity to rotate in a forensic psychiatric hospital. Students will learn the clinical, legal and ethical issues at the interface between psychiatry and the law and will refine the skills they acquired in the Period 3 Psychiatry Clerkship through further inpatient and assessment experiences. Students will focus on honing their skills related to psychiatric interviewing, diagnostic reasoning, and treatment planning. Students will participate in the initial assessment of patients presenting for admission and will follow inpatients throughout their hospital stay. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7883 Geriatric Psychiatry Elective (1-12). This rotation exposes interested Period 4 medical students to the practice of geriatric psychiatry. Students will refine the skills they acquired in the Period 3 Psychiatry Clerkship through further inpatient and assessment experiences. Students will focus on honing their skills related to psychiatric interviewing, diagnostic reasoning, and treatment planning. Students will participate in the initial assessment of patients presenting for admission and will follow inpatients throughout their hospital stay. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDE 7930 Anatomy Elective (1-12). The 4-week Anatomy Elective will allow students the opportunity to gain a deeper insight into human anatomy and develop the skills and knowledge required for surgical internships and subspecialties. This will allow the students to develop an understanding of the anatomical basis of successful surgical interventions and the risks involved. Under the direct supervision of faculty anatomists and clinicians, students will perform dissections of all relevant body regions in groups of 4-6 students. Moreover, students will assist in the laboratory teaching sessions of the courses "Structure of the Human Body" and "Musculoskeletal Anatomy for Physiotherapy Students." Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7122 Family Medicine Subinternship (1-12). Family medicine is the specialty that focuses on care for the whole person regardless of age, sex, or disease, set within his or her social and community context. The Family Medicine Sub-Internship consists of both an ambulatory and inpatient experience. Under the supervision of FIU HWCOM faculty, students assume an appropriate level of clinical independence; allowing them to practice diagnostic and clinical reasoning, disease management skills, and patient communication and education for patients of varying ages and comorbidities. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7160 Obstetrics and Gynecology Sub-Internship (4). During the obstetrics and gynecology (ob/gyn) sub-internship, the student is responsible for performing all intern level activities under supervision including, but not limited to: evaluating patients' presenting issues and all medical concerns, admitting patients, managing labor and delivery, and formulating a management plan. The sub-intern will demonstrate the ability to counsel and obtain informed consent for vaginal and cesarean deliveries and postpartum tubal ligations. S/he will interpret fetal heart rate tracings and formulate a plan of care for an abnormal tracing. S/he will be responsible for crosscoverage of postpartum patients during labor and delivery shifts. S/he may also be involved in the gynecologic care of patients, including pre-, intra- and post-operative management. The student is expected to participate in all of the educational activities of the Department of Obstetrics and Gynecology during the sub-internship. Prerequisite: Student must be In his/her fourth year and have successfully completed all core third year clerkships.

MDI 7200 Internal Medicine Subinternship (1-12). The Sub-Internship in Internal Medicine is intended to prepare students to effectively care for medical conditions commonly encountered during inpatient rotations, including ward emergency scenarios. Building on the skills gained during period 3, students will take a more active role in patient care; including admitting patients, documenting in the electronic medical record, entering orders, and coordinating and implementing the patient's care plan. This rotation will provide necessary skills to be successful during their first year of post-graduate education. The sub-intern will fulfill clinical and academic responsibilities as an integral team member of an inpatient medical service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7340 ICU Subinternship (1-12). This rotation is intended to prepare students to obtain necessary diagnostic and therapeutic skills to effectively care for patients diagnosed with critical medical disorders. Subinterns will work in a team under the direct supervision of a pulmonary/critical care fellow and a senior resident. Students will assist in the admission, evaluation, and management of patients admitted to the Medical Intensive Care Unit (MICU). Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7341 Acute Coronary Care (CCU/CICU) Subinternship (1-12). This rotation is intended to prepare students to obtain necessary diagnostic and therapeutic skills to effectively care for patients diagnosed with critical cardiac disorders. Students will become an integral part of the CICU team consisting of cardiology attending, fellows, internal medicine residents and interns. Students will assist in the admission, evaluation, and management of patients admitted to the CICU. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7400 Pediatric Medicine Subinternship (1-12). The Pediatric Medicine Sub-internship gives the student increased responsibility for decisions made for the total care of the patient. In general, the student is expected to function more as an intern than as a third year student. During the sub-internship, the student will be exposed to all competencies central to medical education; including interpersonal skills, professionalism, practice and systems based learning, patient care, and medical knowledge. Sub-interns are expected to examine patients admitted to the inpatient hospitalist services, write daily progress notes and enter orders in the medical record, develop and assist in implementation of plans for care, and make daily rounds on all patients. Students will participate in all academic activities of the Hospitalist Service, including simulation training and didactic lectures. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7463 Pediatric Intensive Care Subinternship (1-12). The Pediatric Intensive Care Subinternship is a unique opportunity for students to learn about the pathophysiology, pharmacology, social aspects, and clinical skills found in a world-class pediatric intensive care unit. The faculty, fellows, residents, and staff hope that students utilize this experience to further their knowledge of the critical care of children and to see how family centered care in all fields of medicine contributes to an improved overall medical environment. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7480 Pediatric Orthopedic Surgery Subinternship (1-12). The Orthopedics sub-internship will present the sub-intern with a comprehensive outline of the spectrum of orthopedic surgery as practiced in a community hospital. The sub-intern will be involved in an intensive in-patient experience and will have significantly increased responsibility; involving taking an orthopedic history, performing a focused musculoskeletal exam, participating in the primary workup of new patients and writing orders. Over the course of the rotation, the sub-intern should improve his or her ability to manage both common and complex patient presentations. The sub-intern should develop advanced skills in fracture treatment and cast application. He or she should be involved in a wide array of pediatric orthopedic surgeries and the management of postoperative pediatric orthopedic patients. The sub-intern will participate in daily patient care tasks, take night call, write notes, and dictate discharge summaries. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7490 Pediatric Surgery Subinternship (1-12). The Pediatric Surgery sub-internship, combining in-patient, emergency, and out-patient experiences, gives the student increased responsibility for decisions made for the total care of the pediatric surgical patient. This rotation will expose students to the unique anatomic, physiologic, and metabolic issues seen in infants, children, and adolescents with surgical issues. In general, the student is expected to function as an intern, or junior resident. Students will gain hands-on experience in the in-patient management of surgical patients in the NICU, PICU, and general wards; with focus on hands-on instruction and experience in pre- and post- operative care. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7570 Orthopedic Surgery Subinternship (1-12). The section of Orthopedics will present to the student a comprehensive outline of the spectrum of orthopedic surgery as practiced in a community hospital. The student will be involved in an intensive inpatient experience and will have significantly increased responsibility, involving primary workup of new patients and writing orders. The student will also perform procedures such as evaluating patients, taking an orthopedic history, and performing a physical examination of the musculoskeletal system. The student should improve his or her ability to manage complex patient presentations, including diagnosing and treating common adult orthopedic problems. The student should develop advanced skills in fracture treatment and cast application. He or she should be involved in joint replacement surgery and management of postoperative adult orthopedic patients. The student will participate in daily care, take night call, write notes, and dictate discharge summaries. Prerequisite: Enrolled in Herbert Wertheim College of Medicine.

MDI 7600 General Surgery Subinternship (1-12). This course is designed for students who desire a greater in-depth experience in general surgery or who are seriously considering surgery as a possible career choice. It serves as an exploratory path for a planned career in general surgery or other surgical sub-specialties. In this role, the subintern will have more responsibilities than a period 3 clerkship student. The student will examine patients, assist in surgery, participate in pre-operative and post-operative care and will also be encouraged to develop his/her

clinical and technical skills. The student will be expected to participate in all of the educational activities of the Department of Surgery during the course of his/her rotation. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7620 Cardiothoracic Surgery Subinternship (1-12). The goal of the Cardiothoracic Surgery Sub-internship is to give fourth year medical students with a specific interest in the field the opportunity to become more familiar with the pathophysiology and clinical presentation of the most common cardiothoracic diseases. It is expected that the medical student will become an integrated part of the Cardiothoracic Surgical Team and assume the role of a sub-intern involved in all aspects of pre-operative, peri-operative, and post-operative patient care; including in the operating room, the cardiothoracic intensive care unit (CTICU) and general inpatient floor. Some exposure to catheter based therapy in the hemodynamics room (cath lab) will also be included. Given the four-week duration of the sub-internship, the thoracic and cardiac pathways will be integrated in order to provide students with exposure to both fields. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7660 Plastic and Reconstructive Surgery Subinternship (1-12). The Subinternship in Plastic Surgery is a 4-week experience designed to provide the student with advanced exposure to the clinical problems and techniques commonly encountered in the field of plastic surgery, with the goal of preparing the student for residency in this discipline. A student may choose to focus on pediatric plastic surgery, hand surgery, general reconstructive surgery, or aesthetic surgery. Students will rotate through a single setting during the rotation and will develop working relationships with the surgical preceptor. The student is expected to participate in pre- and post-operative office visits, hospital visits, and surgeries. In addition, the student will be expected to further advance his or her basic plastic surgery technical skills. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7674 Urology Subinternship (1-12). In this rotation, the student will acquire knowledge of Urology and urologic anatomy; develop an understanding of and ability to perform a urologic history and physical exam; interview and present patients; develop an understanding of emergent urologic issues as well as common urologic issues with an emphasis on the acute scrotum, urinary tract infections, urinary stones, incontinence, benign prostatic hyperplasia, erectile dysfunction, hematuria and prostate cancer/PSA testing by both didactic and practice based learning; develop an understanding of a spectrum of urologic procedures/surgeries, including foley catherization, cystoscopy, and transrectal ultrasound and prostate biopsy by observation and participation; develop an understanding of peri-operative urologic issues of both urologic and non-urologic patients via inpatient encounters; and develop an understanding of the role of a Urologist in the care of both math and female patients and when an appropriate referral should be made (emergent or routine). The student will function as a supervised member of the urologic team, interacting with faculty and resident staff and participating in urologic clinics and in the operating room. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDI 7680 Trauma/Acute Care Surgery Subinternship (1-12). The Trauma/Acute Care Surgery subinternship is intended to provide the student with in-depth knowledge of patient care as it relates to trauma and non-trauma emergency surgical diseases. The student is expected to function at the level of a junior resident and be on the scene for first-line evaluation and management of patients in the emergency room. In addition, it is expected that the student maintains close follow-up of the patient's progress on a daily basis. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDR 7060 Medical Ethics and Humanism Elective (1-12). Offered as a two-week rotation, with the option for an additional two-credit longitudinal component; this elective is designed for the individualized study of topics in clinical, research, and service-learning ethics and humanism in medicine. Students will examine ethical and humanistic issues in medicine that emerge in the clinical setting, lab, or community. Students will read, write and analyze case vignettes, attend community ethics activities (e.g. Hospital ethics committee meetings), develop a scholarly project, and contribute to an ethics research project. Humanism in medicine is the recognition that both practitioner and patient are human beings, with the shared values and experiences of humanity. This provides a framework for improved clinical interactions and addresses phenomena such as ethical leadership, inclusive communication, and burnout. The course director will create learning contracts tailored to students' individual interests, objectives, and clinical schedules. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDR 7910 Research Scholarship (1-12). The Research Scholarship Course aims to develop competencies required to do research as a lead investigator or colead investigator. This course provides students the opportunity to be exposed to and supported through the completion of a research project in a role that very closely resembles the role of a primary investigator or first author researcher. The student should be a full participant and a crucial element in the generation of (or fully understand, if assigned to an ongoing project) the research idea (research question or hypothesis), the development of the project proposal, data collection tools, data collection activities, analysis, interpretation, and the writing of a short document summarizing the experience. Potential research projects could encompass, but are not to be limited to the areas of basic sciences and community-based clinical and epidemiological research. Prerequisite: Enrolled in the Herbert College of Medicine.

MDS 7140 Geriatric Medicine Selective (1-12). The Geriatric Medicine Elective is designed to allow fourth-year medical students the opportunity to participate with increased responsibility in the care of geriatric patients. Students learn the various components of a comprehensive work-up (e.g., functional scales, mini-mental exam). Students participate with the geriatric team in hospital consultations and follow-ups. This rotation is designed to supplement and introduce students to aspects of geriatrics not fully covered on a busy internal medicine inpatient and outpatient service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7160 Obstetrics/Gynecology Selective (1-12). This fourth year clinical selective in Obstetrics and Gynecology offers the student the opportunity to enhance his/her skills

in outpatient diagnosis and management. The student is expected to adhere to the schedule agreed upon with the FIU faculty member, including call duty, rounding, and other clinical responsibilities (ie. those related to surgery, outpatient clinic, or the labor floor). The rotation may be tailored based on the student's specific goals and learning objectives; the student should reach out to the course director to discuss special considerations. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7161 Gynecology Oncology Selective (1-12). This four week selective is intended for students who have already completed the basic core clerkship in OB/GYN and are interested in enhancing their exposure to the subspecialty of Gynecologic Oncology. The student will be provided experience in the inpatient and outpatient management of patients with pre-malignant and malignant conditions of the genital tract. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7163 Gynecology Surgery Selective (1-12). This four week course will introduce the student to gynecologic care in the adult female, ranging from routine care to the evaluation and surgical treatment of complex gynecologic conditions. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7180 Perinatology/Maternal Fetal Medicine Selective (1-12). This Period 4 clerkship allows students to experience the full range of maternal-fetal medicine and familiarizes students with the diagnosis and management of pregnant patients who have obstetrical, medical, or surgical complications. Students receive experience in ultrasound, genetics, genetic counseling, and the management of high-risk obstetrical patients. Students follow patients through the inpatient antepartum service and participate in the care of high-risk obstetrical patients admitted to the hospital. Attendance at the following conferences is required: FHR tracing and labor management review, high risk obstetrics conference, grand rounds, prenatal - neonatology conference, and journal club. Students are required to take call on the Labor and Delivery Unit one night per week. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7204 Hospitalist Service Selective (1-12). The four week Hospitalist Service Selective is designed to allow fourth year students the opportunity to participate with increased responsibility in the care of patients admitted to the internal medicine/hospitalist service. Students provide longitudinal care for hospitalized patients from the time of consultation in the emergency room to the patient's discharge and/or transfer. Students' schedules vary according to the needs of each site; students are expected to take call every fourth night. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7220 Cardiology Selective (1-12). This hospital-based selective aims to improve the student's understanding of the pathophysiology of common cardiovascular diseases, indications for invasive and noninvasive studies, and first-line treatment of prevalent cardiovascular disorders. This rotation should improve the student's ability to evaluate acute and chronic cardiac disorders, appropriately take a patient history and conduct a physical exam, interpret an EKG, and develop a differential diagnosis. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7245 Pulmonology Selective (1-12). Through time spent both on the inpatient pulmonary consultation service and in the outpatient setting, this rotation will prepare students to effectively care for common cardiopulmonary disorders. In particular, students will be exposed to radiological interpretation of chest imaging and the interpretation of pulmonary function tests. Depending on the site, students will be part of a team with fellows and residents or will be under the direct supervision of a pulmonary specialist. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7270 Gastroenterology/Hepatology Selective (1-12). This course will consist of a four week rotation, which will include inpatient and outpatient gastroenterology and hepatology. Throughout the rotation, students will be assuming primary responsibility of patients under the supervision of gastroenterology attendings. The experience will also allow for participation in varied endoscopic procedures, such as esophageal manometry, and upper and lower endoscopy. During the week, students will participate in pathology and radiology conferences geared to gastroenterology and hepatology cases. The course will concentrate on teaching students how to interpret clinical information and develop therapeutic decision making. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7280 Hematology Oncology Selective (1-12). This rotation is intended to prepare students to learn a basic approach to evaluation, diagnosis, staging and treatment of patients with blood diseases and cancer. Through exposure to patients with these diseases, students will improve their physical diagnosis skills, recognition of complications of disease, and understanding of therapeutic issues. Students will learn concepts of palliative care, end of life and hospice care. The rotation is mainly inpatient-consult service with some outpatient exposure. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7320 Infectious Disease Selective (1-12). This elective rotation is intended to prepare students to obtain, under direct supervision of an infectious disease faculty, the necessary diagnostic and therapeutic skills to effectively care for patients with infectious disorders from the surgical, transplant, intensive care, OB/GYN, hematologic/oncologic, and general medicine services in a community hospital. Prerequisite Enrolled in the Herbert Wertheim College of Medicine.

MDS 7340 Intensive Care Unit Selective (1-12). This rotation is intended to prepare students to obtain necessary diagnostic and therapeutic skills to effectively care for patients diagnosed with critical medical disorders. Students work under direct the supervision of the ICU attending physician or as a member of a teaching team under the supervision of the attending physician, pulmonary/critical care fellow, and IM residents. Students assist in the admission, evaluation, and management of patients admitted to the Medical Intensive Care Unit. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7341 CCU/CICU Selective (1-12). This rotation is intended to prepare students to obtain necessary diagnostic and therapeutic skills to effectively care for patients diagnosed with critical cardiac disorders. Students

will become an integral part of the CICU team consisting of cardiology attending, fellows, internal medicine residents and interns. Students will assist in the admission, evaluation, and management of patients admitted to the CICU. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7342 Cardiothoracic ICU Selective (1-12). This course provides the 4th year medical student with exposure to the multidisciplinary team approach to both the medical and surgical care of the patients needing surgery for Cardiac problems. The student will have experience of patient management from pre-operative through operative to post-operative management. In addition to experience with cardiothoracic surgery, the student will be involved in the medical management of critically ill patients with cardiothoracic problems. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7350 Nephrology Selective (1-12). The 4-week Nephrology Selective offers students the opportunity to learn about the diseases of the kidney and become more skilled in their management. Students will participate in the care of patients with medical renal disease who are seen in the office and also on the renal consult service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7400 Pediatric Medicine Selective (1-12). Medical students will examine patients admitted to the Inpatient Hospitalist Services, write daily entries into the medical record, develop plans for care, enter orders into the medical record, and make daily rounds on all patients. Students will participate in all academic activities, including simulation training and didactic lectures, provided to the students, residents, and fellows of the Hospitalist Service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7420 Pediatric Cardiology Selective (4). This rotation will occur in both the inpatient and outpatient settings, with medical students participating in the care of patients admitted to cardiology service, patients requiring cardiac consultation, and outpatient care visits. Medical students are expected to examine patients admitted to the hospital and make daily rounds on all patients on the cardiology service. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7460 Pediatric Neonatology Selective (1-12). Medical students will examine patients admitted to the Pediatric Neonatology Unit, write daily entries into the medical record, develop plans for care, enter orders into the medical record, and make daily rounds on all patients. Students will participate in all academic activities, including simulation training and didactic lectures, provided to the students, and residents of the Neonatology Unit. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7462 Pediatric Intensive Care Selective (1-12). Medical students will examine patients admitted to the Pediatric Intensive Care Unit, write daily entries into the medical record, develop plans for care, enter orders into the medical record, and make daily rounds on all patients. Students will participate in all academic activities, including simulation training and didactic lectures, provided to the students, residents, and fellows of the Pediatric Intensive Care Unit. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7490 Pediatric Surgery Selective (1-12). Pediatric Surgery Selective, combining in-patient, emergency, and out-patient experiences, gives the student, under the direction of FIU faculty, increased responsibility for decisions made for the total care of the pediatric surgical patient. This rotation will expose students to the unique anatomic, physiologic, and metabolic issues seen in infants, children, and adolescents with surgical issues. Students will gain hands-on experience in the in-patient management of surgical patients in the NICU, PICU, and general wards; with focus on hands-on instruction and experience in pre- and post-operative care. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7494 Pediatric Orthopedic Surgery Selective (1-12). The section of Orthopedics presents to the fourth-year student a comprehensive outline of the spectrum of orthopedic surgery as practiced in a pediatric setting. The student is involved in an intensive in-patient experience and has increased responsibility, involving primary workup of new patients and writing orders. The student also performs procedures such as evaluating patients, taking an orthopedic history, performing a physical examination of the musculoskeletal system, assisting in the operating room, and being involved in postoperative care. The student is involved in the management of orthopedic trauma and is expected to participate with the orthopedic surgery team in the diagnosis, surgical treatment, and postoperative management of orthopedic trauma patients. The student may participate directly with patients in the emergency department, operating room, intensive care unit, and the orthopedic unit. Prerequisite: Enrolled in Herbert Wertheim College of Medicine.

MDS 7500 Pediatric Emergency Medicine Selective (4). Medical students will examine and evaluate patients presenting to the Pediatric Emergency Room. Students are expected to make entries into the electronic medical record, develop plans for care, and enter orders. Students will participate in all academic activities, including simulation training and lectures, provided to the Pediatric Emergency Medicine fellows and Pediatric residents. Students are expected to expand their knowledge of Pediatric Emergency Medicine with a focus on acute airway management, acute evaluation of the pediatric trauma patient, evaluation of the pediatric acute abdomen, fever in children, and the management of minor soft tissue injuries. Skills and knowledge will be acquired through directed readings, patient care, and simulation scenarios. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7530 Pathology Selective (1-12). The primary goal of the pathology rotation is to become familiar with the role of the department of pathology and laboratory medicine within the hospital and to learn to interact with the pathologists, pathology house staff (residents), and laboratory personnel. In addition, students should learn some basic concepts in pathology. The pathology department provides and oversees all aspects of laboratory testing (clinical pathology) and provides diagnostic information on tissue specimens (anatomic pathology). The primary activities in which students participate include the daily sign-out of biopsies/surgical specimens, review of autopsies, and various intra and

interdepartmental conferences. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7570 Orthopedic Surgery Selective (1-12). The section of Orthopedics presents to the student a comprehensive outline of the spectrum of orthopedic surgery as practiced in a community hospital. The student is involved in an intensive in-patient experience and has significantly increased responsibility, involving primary workup of new patients and writing orders. The student performs procedures such as evaluating patients, taking an orthopedic history, and performing a physical examination of the musculoskeletal system. The student should improve his or her ability to manage complex patient presentations, including diagnosing and treating common adult orthopedic problems. The student should develop advanced skills in fracture treatment and cast application. He or she should be involved in joint replacement surgery and management of postoperative adult orthopedic patients. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7580 Physical Medicine and Rehabilitation Selective (1-12). This selective offers students experience in the diagnosis and management of patients with a variety of neuro-muscular diagnoses such as stroke, spinal cord injury, traumatic brain injury, and neuro-degenerative disorders such as multiple sclerosis. Students may treat patients with musculo-skeletal disorders such as amputation, total hip arthroplasty, total knee arthroplasty, and multiple trauma victims. Students attend physical, occupational, and speech therapy sessions with their patients to learn the daily process of rehabilitation. They learn to perform accurate functional assessments of patients, establish a plan of care for those patients, and provide accurate estimates of goals of the admission, including length of stay. Students learn comprehensive discharge planning for a newly disabled individual. Prerequisite: Enrolled in Herbert Wertheim College of Medicine.

MDS 7600 General Surgery Selective (1-12). The student works directly with general and vascular surgeons. During the rotation, the student is exposed to all phases of patient care, including outpatient clinic, operating room and hospital. Emphasis will be placed on initial assessment, physical examination and preoperative evaluation. When appropriate, the student follows individual patients whose cases are particularly instructive. Supplemental reading for such cases is encouraged. While no formal projects are required, ample opportunity exists for independent projects as dictated by the student's special interests. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7605 Vascular Surgery Selective (1-12). The goal of the rotation is to provide students with a thorough understanding of the diseases of the peripheral vascular systems – arterial, venous, and lymphatic. Those considering a career in vascular surgery can gauge if the specialty meets their interests and skills while those planning to choose other fields can learn more than enough to know when referral to a vascular surgeon is appropriate. Students will work with our vascular surgeons in the office, hospital wards, operating room, interventional suite, and wound center to learn about the diagnosis and management of the full spectrum of vascular diseases. They will be exposed to patients with carotid artery disease, aortic and peripheral artery aneurysms, peripheral artery occlusive disease, dialysis access needs, venous thrombosis, varicose veins, and chronic wounds. They will be able to assist in open surgeries and in balloon angioplasty/stent procedures. There will also be opportunities for clinical research if desired. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7630 Cardiothoracic Surgery Selective (1-12). The goal is to provide fourth year medical students with a special interest in Cardiothoracic Surgery with the opportunity to become more familiar with the pathophysiology and clinical presentation of the most common cardiothoracic diseases. It is expected that the medical student will be part of the Cardiothoracic Surgical team involved in the daily routine including the operating room, the cardiothoracic intensive care unit and floor. Some exposure to catheter-based therapy in the hemodynamics room (cath lab) will also be included. Because of the short duration of the rotation, students will have exposure to both the cardiac and thoracic pathways. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7640 Bariatric and Minimally Invasive Surgery Selective (1-12). This 4-week rotation will give the student exposure to surgical treatments for morbid obesity and the use of minimally invasive surgery in a number of conditions affecting the GI tract, abdominal wall, endocrine glands and spine. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7641 Surgical Oncology Selective (1-12). The goal of this selective is to introduce the student to the surgeon's role in the multidisciplinary management of patients with cancer. The program includes the evaluation and management of patients with malignant and benign solid tumors and their surgical management. The full spectrum of care includes medical oncology, radiation oncology and nuclear oncology. The experience will include outpatient clinics, in-patient rounds/consults, surgery and exposure to clinical trials and clinical research. The students will attend and present at weekly multidisciplinary tumor conferences, attend monthly cancer committees, and participate in monthly journal clubs. The opportunity to participate in clinical research will be made available to interested students. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7650 Neurosurgery/Neuroscience Selective (1-12). The 4-week Neurosurgery/Neuroscience Selective will assign interested students to faculty neurosurgeons at one of our affiliated facilities. This rotation presents the student the broad-spectrum of neurosurgical conditions and procedures encountered in a tertiary hospital setting. Students are expected to be involved in all aspects of pre-operative, intra-operative, and post-operative care; including care provided in the inpatient, outpatient, and surgical settings. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7660 Plastic and Reconstructive Surgery Selective (1-12). The selective rotation in plastic surgery is a 4-week rotation designed to expose the student to a wide variety of clinical problems and techniques commonly encountered in the field of plastic surgery. The student will be exposed to all subspecialties in plastic surgery, including general reconstructive surgery,

pediatric/craniofacial surgery, hand surgery, and aesthetic surgery. Students will rotate through an in-patient setting during the rotation and will be expected to participate in pre- and post-operative office visits, hospital visits, and surgeries. In addition, the student will be expected to master wound closure techniques and other basic plastic surgery technical skills. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7676 Colorectal Surgery Selective (1-12). This 4-week rotation will introduce the student to the diagnosis and management of disorders affecting the colon and rectum, including conditions such as Crohn's disease, ulcerative colitis, familial polyposis, colorectal cancer, and disorders of evacuation. Students will be an integral member of a patient care team that includes both FIU faculty attending surgeons and surgical residents. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7682 Trauma Surgery Selective (1-12). This selective provides the 4th year medical student experience in the evaluation and treatment of the patient with severe trauma. The student will be initially involved in the assessment and stabilization of the patient in the Trauma Room in the ER and will then be involved in the preoperative management, intraoperative treatment, and postoperative recovery of the patient. Students will be exposed to emergency interpretation of imaging and diagnostic studies, ventilatory management, invasive monitoring procedures and interventional procedures such as chest tube insertion, thoracentesis and paracentesis Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7700 Anesthesiology Selective (1-12). This rotation will allow the student supervised hands-on participation in preoperative anesthesiology evaluation, creation of an anesthesia plan, intravenous line placement, induction of general anesthesia and airway management, monitoring of anesthesia, and emergence and postoperative care. Students will also be involved in other procedures commonly performed by anesthesiologists, such as regional blocks for pain control. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7701 Pediatric Anesthesiology Selective (1-12). This rotation will allow the student supervised hands-on participation in the preoperative anesthesiology evaluation, creation of an anesthesia plan, intravenous line placement, induction of general anesthesia and airway management, monitoring of anesthesia, emergence and postoperative care in pediatric patients. Students will also be involved in other procedures commonly performed by anesthesiologists, such as regional blocks for pain control. Prerequisite: Enrolled in Herbert Wertheim College of Medicine.

MDS 7710 Emergency Medicine Selective (3-5). This rotation is intended to familiarize students with the wide range of clinical conditions, minor to major, which are responsible for the patient seeking care at an emergency department. Students practice skills in the recognition and management of acute life-threatening conditions and exacerbation of serious disease in a strictly supervised setting. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7760 Diagnostic Radiology Selective (1-12). This rotation is intended to give students an introduction to the basics of diagnostic imaging, the appropriate choice of imaging method for given clinical problems and the side-effects and risks associated with each. Students will become familiar with imaging findings in common clinical condition. The rotation will involve online modules, small group sessions and 'virtual' and real reading room sessions. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7765 Interventional Radiology Selective (1-12). This rotation is intended to give students an introduction to the basics of Interventional Radiology (IR); including IR techniques and procedures, and an understanding of the field's role in the management of medical and surgical problems. Students will participate in the workup, treatment and follow-up of patients undergoing various IR procedures. Students will also gain experience in the interpretation of radiologic imaging such as ultrasound, CT, and MRI. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7780 Radiation Oncology Selective (1-12). This rotation provides students with supervised participation in the care of radiation oncology patients. This includes the diagnostic/clinical evaluation of the patient's disease and the development of treatment plans involving radiation therapy. Students are exposed to state-of-the- art radiation oncology equipment and, during the planning phase, are shown the use of CT imaging with plain and contrast-enhanced techniques for therapy planning and positioning of the patient for radiation treatment. They are exposed to the management of the most common tumors seen in our community, including breast, prostate, lung, GI, skin, and head and neck cancer. Students are introduced to palliative care and the incorporation of integrative medicine in the overall care of the patient. Prerequisite: Enrolled in Herbert Wertheim College of Medicine.

MDS 7800 Neurology Selective (1-12). The Neurology Selective is a 4-week rotation that can be tailored to the student's needs and specific interests. In-patient and out-patient experiences are available, in addition to simulations and neuro-anatomy lab. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

MDS 7860 Adult Inpatient Psychiatry Selective (1-12). The course allows Period 4 medical students to refine the skills they acquired in the Period 3 Psychiatry Clerkship through further inpatient and emergency psychiatry experiences. Students will focus on honing their skills related to psychiatric interviewing, diagnostic reasoning, and treatment planning. Students will participate in the initial assessment of patients presenting for admission and will follow inpatients throughout their hospital stay. Prerequisite: Enrolled in the Herbert Wertheim College of Medicine.

PAS 6005 Human Behavior (2). This is an integrated primary core course, foundational to the principles of human behavior and psychiatry. It will involve an intensive study of the clinical presentation, pathophysiology, and recognition of various diseases and anomalies in the population. The contextual approach to these disciplines will include the interrelationship or prior and current learning incorporating the basic sciences, anatomy and

physiology, ancillary diagnostics and medical term. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6011 Clinical Medicine I (3). This course is a systematic review and discussion of the epidemiology, pathophysiology, clinical manifestations, diagnosis and management of the most common diseases in humans. It builds upon the foundation of basic science knowledge and clinical assessment skills. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6012 Clinical Medicine II (3). This course is a systematic review and discussion of the epidemiology, pathophysiology, clinical manifestations, diagnosis and management of the most common disease in humans. It builds upon the foundation of basic science knowledge and clinical assessment skills. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6014 Physiology I (3). This is an integrated primary core course, foundational to principles of physiology. It will involve an intensive study of the clinical presentation, pathophysiology, and recognition of various disease and anomalies in the population. The contextual approach to these disciplines will include the interrelationship of prior and current learning incorporating the basic sciences, anatomy and physiology, ancillary diagnostics and medical terminology. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6015 Physiology II (3). This is an integrated primary core course, foundational to the principles of physiology. It will involve an intensive study of the clinical presentation, pathophysiology, and recognition of various diseases and anomalies in the population. The contextual approach to these disciplines will include the interrelationship of prior and current learning incorporating the basic sciences, anatomy and physiology, ancillary diagnostics and medical terminology. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6016 Integration into Clinical Concepts I (2). This is the first in a series of three courses in the didactic year that provide students the opportunity to translate knowledge gained in the concurrent didactic curriculum courses to clinical problems and to clinical decision making. The course is conducted by the faculty facilitators in a small-group discussion format. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6017 Integration into Clinical Concepts II (2). This is the second in a series of three courses in the didactic year that provide students the opportunity to translate knowledge gained in concurrent didactic curriculum courses to clinical problems and to the clinical decision making. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6018 Integration into Clinical Concepts III (2). This is the final course in a series of three didactic year courses that provide students the opportunity to translate knowledge gained in concurrent didactic curriculum courses to clinical problems and clinical decision making. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6022 Gross Anatomy (4). Gross Anatomy for Physician Assistant students is a clinically oriented course in which descriptive and surface anatomy are integrated with embryology. Organization of human anatomy is correlated with diagnostic imagine and pathophysiology. The objective is to provide students with a hands-on experience in the study of the human body, an understanding of relevant aspects of human development and its abnormalities. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6023 Pharmacology in Disease Pathology I (2). These lectures are integrates with the appropriate organ or disease system in which an appreciation of the pathophysiology is helpful for understanding the basis of use of a class of drugs in a particular disease. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6026 Pharmacology in Disease Pathology II (2). These lectures are integrates with the appropriate organ or disease system in which an appreciation of the pathophysiology is helpful for understanding the basis of use of a class of drugs in a particular disease. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6031 Clinical Skills I (2). This course is the first in a two course sequence designed to provide students with an overview of skills and procedures needed for clinical practices as a PA. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6032 Clinical Skills II (1). This course is the second in a two course sequence designed to provide students with an overview of skills and procedures needed for clinical practice as a PA. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6033 Clinical Medicine III (3). This course is a systematic review and discussion of the epidemiology, pathophysiology, clinical manifestations, diagnosis and management of the most common diseases in humans. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6040 Clinical Assessment I (3). Students are introduced to the sequential process and skills involved in history taking and physical examination techniques. It emphasizes the "normal" physical exam assessment, and introduces students to assessment techniques for the most common abnormal physical exam findings. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6041 Clinical Assessment II (2). This course is the second in a two sequence designed to provide students with an overview of skills and procedures needed for clinical practice as a PA. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6050 The Role of PA in American Health Care (3). The first portion covers major aspects of the US health care system. The aim is to give students a broad foundation of knowledge regarding the basic components of the health system and its issues and trends. The second portion presents the key components of the PA profession and examines the scope and the role of the PA in medical practice. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6090 Clinical Application of Evidence-Based Practice I (3). This course provides an introduction to research design and methods including bio statistical analyses that are most commonly encountered within health research. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6091 Clinical Application of Evidence-Based Practice II (2). Advanced application of research,

statistical, and evidence-based medicine concepts presented in Clinical Applications of Evidence-Based Practice II with emphasis on studies assessing therapeutic intervention. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6103 Internal Medicine Clerkship (6). This eight week clinical course focuses on basic medical practice. The student is exposed to the common medical problems encountered on an in-patient and out-patient medical services. Emphasis is placed on the history and physical examination and the process required in the proper work-up and management of the patient. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6125 Psychiatry Clerkship (3). This four week clinical course in a psychiatric care setting will allow students to participate in daily rounds and become knowledgeable of the use of psychotropic medications for psychiatric disorders. Group therapy sessions will be a major part of the learning experience. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6184 Medical Microbiology and Infectious Disease (4). Provides skills to integrate topics in basic microbiology and clinical infectious diseases. Lectures and small group case studies will provide students with an understanding of the basic principles of medical microbiology including microbial pathogenesis and clinical infectious diseases. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6185 Geriatric Medicine Clerkship (4). This clinical course provides the opportunity for students to become familiar with common physical and psychological problem encountered by the geriatric patient including cardiac and respiratory insufficiency, urinary tract infection, stroked, and diabetes mellitus. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6200 Surgery Clerkship (6). The student will be exposed to a variety of clinical problems routinely seen on the surgical service. Emphasis will be placed on the preoperative, intraoperative and postoperative management of the patient. In the operating room the student will practice aseptic techniques, operating room principles, and assisting in surgery. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6300 Pediatric Clerkship (6). This eight week clinical course in pediatric care settings will introduce students to childhood illnesses and normal variations of growth and development. Students will perform histories and physical examinations and manage patients in the newborn nursery, pediatric out-patient clinic and emergency room. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6400 Family Medicine Clerkship (8). This clinical course introduces the student to the family practice setting where emphasis is placed on the common disease treated by the primary care practitioners in conjunction with other members of the health care team. The student is exposed to rural epidemiology, cultural diversity, and problems that affect delivery of health care team. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6500 Obstetrics/Gynecology Clerkship (3). During this four week clinical rotation the student will participate on the obstetrical service managing pregnancy, labor and delivery and be introduced to pre and postnatal complications. The student will also participate in the management of the common gynecologic problems. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6600 Emergency Medicine Clerkship (4). This required rotation is designed to provide an in-depth exposure to the illnesses and injuries sustained by adults and children that necessitate emergency care. These educational experiences are intended to emphasize interview and examination skills and the performance of techniques and procedures essential to the proper management of emergency illness and injury. Prerequisite: Enrolled in the Physician Assistant Program.

PAS 6940 Elective Clinical Rotation (1-6). This elective clinical rotation provides practical clinical exposure and knowledge, whether in an area of primary care or specialty medicine. This course may be repeated. Prerequisite: Enrolled in the Physician Assistant Program.

Herbert Wertheim College of Medicine

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Physician Assistant Studies Program **Raisa Miller**
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Teaching and Learning **Samantha Lemus-Martinez**

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Zemskov, Evgeny, Ph.D. *(Institute of Developmental Biology Russian Academy of Sciences, Moscow Pedagogical State University, Moscow, Russia), Associate Professor*
Zinner, Michael, M.D. *(University of Florida), Chair, Surgery and Professor*

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Nicole Wertheim College of Nursing and Health Sciences

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Chair, Communication Sciences & Disorders **Monica Hough**
Chair, Health Services Administration **Chanadra Young-Whiting**
Graduate Program Director, Health Services Administration **Mariceli Comellas**
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Interim Assistant Chair, Nurse Anesthesia **Ann Miller**
Interim Chair, Graduate Nursing (MSN) **Rosa Roche**
Interim Director DNP program, Graduate Nursing **Charles Buscemi**
Director, PhD Nursing **Tami L. Thomas**
Chair, Undergraduate Nursing **Maria Olenick**
Chair, Occupational Therapy **Lynne Richard**
Chair, Physical Therapy **Mark D. Rossi**
Director, STAR Center **Henry Henao**
Director, Student Services **Natalie Rollan**

The Nicole Wertheim College of Nursing and Health Sciences was created in 2006 by the merger of the School of Nursing and the School of Health Sciences. In support of the University's mission as a major urban research institution, the College offers programs of professional study in selected health professions.

The College offers baccalaureate degrees in Nursing and Health Services Administration. Master's degrees are offered in Athletic Training, Health Services Administration, Occupational Therapy, Speech-Language Pathology, and Nursing, The Doctor of Philosophy in Nursing, the Doctor of Nursing Practice, and the Doctor of Physical Therapy and the Doctor of Athletic Training are offered by the College.

The Nicole Wertheim College of Nursing and Health Sciences' mission is to prepare diverse healthcare professionals who are providers and leaders in the delivery of high quality, accessible, culturally-competent, and compassionate care within a highly technological and global environment. Our Vision is to be globally recognized as the higher education destination organization that is innovative, inquiry-driven, and technologically advanced, drawing diverse top-class faculty, students, staff, and others for a positive transformation of society with a focus on the health care needs of underserved populations.

Students interested in the academic programs offered by the Nicole Wertheim College of Nursing and Health Sciences are urged to contact the Office of Student Services at (305) 348-7703 or via the web at http://cnhs.fiu.edu/

College Policies

Background checks and drug screenings

The practicum/field placement sites used by all programs in the Nicole Wertheim College of Nursing and Health Sciences require the disclosure of conviction records for misdemeanors and/or felonies and current screening for drug use. Therefore, students are required to submit to criminal background checks and drug screening tests before admission and to the initiation of the clinical education portion of their education. The student will be responsible for the financial cost of such screenings.

Findings in background checks and/or drug screening tests may affect a student's ability to participate in clinical experiences and complete the program, and/or obtain licensure or certification.

Standard disclaimer on policy/procedure changes

The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's and College's various publics and to respond to the mandates of the Florida Department of Education, Board of Governors, the Legislature, and other regulatory and accrediting agencies. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations. Please refer to the College's website for the most recent information regarding program requirements, policies, and procedures.

Changes to the Curriculum Requirements

The curricula described in this catalog are continually subject to review in order to respond to the mandates of the Florida Department of Education, Board of Governors, and the Legislature. This is especially true for the programs that are subject to national accreditation requirements. University policy changes in the curriculum may be made without advance notice.

Generally, the Nicole Wertheim College of Nursing and Health Sciences makes every effort to minimize the impact of curriculum changes on currently enrolled students by stipulating that students complete the requirements of their degree program in effect at the time of admission or readmission to the program. In the event that this is not possible due to accreditation standards or the deletion of courses, students may be required to complete alternative degree requirements in order to graduate. Students should review their files to ensure that all documentation of changes is noted.

Health Services Administration

Chanadra Young-Whiting, Ed.D., MPH/HSA, CHES
Chair and Clinical Associate Professor
Mariceli Comellas, Ed.D., *Director of the Master of Health Services Administration and Clinical Assistant Professor*
Wensheng Fan, Ph.D, MPH, *Clinical Assistant Professor*
Kellen Hassell, Ed.D, *MA*, *Clinical Education Coordinator and Clinical Assistant Professor*
Michelle Kameka, Ed.D., MPH, *Clinical Assistant Professor*
Yamile Marrero, JD, MPH, CSCS, *Clinical Assistant Professor*
Tina Yeung, PhD., MHA, *Clinical Assistant Professor*

Master of Health Services Administration

Admissions Requirements

Admission to the program will be based upon a combination of the upper-division (last 60 hours) grade point average and a personal statement. Each applicant must have a GPA for the last 60 hours of a 3.0 on a 4.0 scale.

Courses are sequenced to enhance the development of competencies as students progress through the curriculum. Students need to pay attention to course prerequisites and adhere to course sequencing.

Prerequisites

Demonstrated knowledge and ability in the areas of accounting, quantitative analysis, or research methods or statistics, economics, and Finance as approved by the Department.

Program Total: (48 credits)

Foundation Courses: 9 credits of required coursework

HSA 5125	Introduction to Health Policy and Management	3
HSA 6185	Management and Organization in Health Care	3
HSA 6176	Financing & Reimbursement of Health Systems	3

Health Services Administration Core Courses: 33 credits of required coursework
(must have completed at least 9 hours of foundation coursework)

HSA 6426	Health Law and Legal Aspects of Management	3
HSA 6175	Financial Management of Health Systems	3
HSA 6186	Leadership and Organizational Behavior in Health Care Systems	3
HSA 6759	Quality Assessment and Outcome in Health Care	3
HSA 6187	Managing Human Resources and Health Professions	3
HSA 6197	Design and Management of Health Information Systems	3
HSA 5655	Ethical Decisions in Health Services Administration	3
HSA 6149	Strategic Planning and Marketing of Health Care Services	3
HSA 6205	Hospital and Health Facilities Organization	3
HSA 6156	Economic and Decision Analysis in Health Care	3
HSA 5226	Management of Long Term Care Systems	3

Integrative Coursework: 5-9 credit hours

HSA 6717	Advanced Health Services Management and Research Seminar	3
HSA 6875	Administrative Residency (Prereq: HSA 6930 and Permission of Instructor)	2
HSA 6930	Professional Seminar	1
	or	
HSA 6977	Master's Research Project (Prereq: HSA 6930 Permission of Instructor)	3-6

Administrative Residency

An administrative residency in a health care organization is offered to all students. Students lacking health services administrative experience are encouraged to complete an administrative residency.

The residency is considered an integral part of the educational process. It is designed to provide practical experience with the theories, concepts, and administrative skills the students acquired in academic study. The residency is generally arranged in an agency or institution compatible with the student's area of interest. The student works with an organizational preceptor in the health agency during this period, and the experience is supervised by a faculty preceptor.

Students must apply for the administrative residency, complete an educational plan, be approved and be placed in an agency by the Residency Coordinator the semester before the residency begins.

Athletic Training

Michelle Odai, Ph.D., LAT, ATC, *Chair, MSAT Program Director and Clinical Associate Professor*
Jeff Konin, Ph.D., ATC, PT, FACSM, FNATA, *DAT Program Director and Clinical Professor*
Matthew Kutz, Ph.D., ATC, *Clinical Professor*
Rodrigo Martinez, DAT, LAT, ATC, *Coordinator of Clinical Education and Clinical Assistant Professor*
Ajaya Williams, Ed.D., LAT, ATC, *Clinical Assistant Professor*
Daniella Eiroa, DAT, LAT, ATC, *Coordinator of AT Services and Clinical Assistant Professor*

Master of Science in Athletic Training

The Athletic Training Program at Florida International University is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Students will graduate with a Master of Science degree in Athletic Training and be eligible to sit for the Board of Certification (BOC) examination.

The examination tests for knowledge and skill in five major domains:

(1) injury/illness prevention and wellness promotion;
(2) examination, assessment, and diagnosis;
(3) immediate and emergency care;
(4) therapeutic intervention; and
(5) healthcare administration and professional responsibility

Admission Requirements

To be admitted to the professional Master of Science Athletic Training Program, the student must:

1. Hold a bachelor degree from an accredited institution.
2. Have a minimum 3.00 GPA average (based on a 4.0 scale) in the last 60 credits of upper division courses of the bachelor degree.
3. Complete the following prerequisite courses with a minimum grade of "C":
   - General Biology and Lab (4 cr.)
   - ^Human Anatomy and Lab (4 cr.)
   - ^Human Physiology and Lab (4 cr.)
   - Physics and Lab (4 cr.)
   - Nutrition (3 cr.)
   - Statistics (3 cr.)
   - Psychology (3 cr.)
   - Kinesiology or Biomechanics (3 cr.)
   - Exercise Physiology (3 cr.)
   - Chemistry and Lab (4 cr.)

   ^ *Or, Anatomy and Physiology I and II with Lab for a total of 8 credits*
4. Three letters of recommendation (one must be from a faculty member)
5. A curriculum vitae/resume
6. A personal statement of professional and educational goals

Application and Admission Processes

Applying for admission to the MSAT program is via the Athletic Training Centralized Application Service (ATCAS) at the below address:
https://atcas.liaisoncas.com/

Required Courses

Semester I (Summer B) - 8 Credits

ATR 5105C	Principles of Athletic Training with Lab	4
ATR 5115C	Management of Medical Emergencies	3
ATR 5805	Clinical Education Seminar in Athletic Training	1

Semester II (Fall) - 11 Credits

ATR 5217C	Clinical Evaluation and Diagnosis in Athletic Training I	4
ATR 5305C	Therapeutic Interventions in Athletic Training I	4
ATR 5815L	Clinical Education I	3

Semester III (Spring) - 11 Credits

ATR 5218C	Clinical Evaluation and Diagnosis in Athletic Training II	4
ATR 5316C	Therapeutic Interventions in Athletic Training II	4
ATR 5825L	Clinical Education II	3

Semester IV (Summer C) - 10 Credits

ATR 5219C	Clinical Evaluation and Diagnosis in Athletic Training III	4
ATR 5835L	Clinical Education III	3
ATR 6620	Research and Evidence-Based Practice in Athletic Training	3

Semester V (Fall) - 9 Credits

ATR 5517	Administration and Professionalism in Athletic Training	3
ATR 5845L	Clinical Education IV	3
ATR 6621	Research and Evidence-Based Practice in Athletic Training II	3

Semester VI (Spring) - 9 Credits

ATR 6855L	Clinical Education V	6
ATR 6935	Contemporary Issues in Athletic Training	3

All courses must be taken in sequence. Course sequence may be modified by the department

Academic Standing

Good Standing: To achieve and maintain a classification of good standing, the student must maintain a minimum GPA of 3.0 in the courses required for the Master of Science in Athletic Training degree.

Progression in the Program

The student must maintain a cumulative GPA of 3.0 in required Master of Science in Athletic Training graduate courses with a minimum grade of B- or better in all required courses. Courses in which the athletic training student earns a grade of C or below must be retaken. In accordance with the program course sequencing requirements, matriculation in the program is suspended until the student earns a passing grade of B- or higher. However, only two courses can be repeated. Any student who earns a grade of C or below in more than two courses will be terminated from the program.

Graduation Requirements

To be eligible for graduation the student must:

- Meet all University Graduate School requirements for graduation
- Satisfactorily complete all didactic and clinical education requirements within the Master of Science in Athletic Training degree program

• Have a minimum graduate GPA of 3.0 in program required courses.

Doctor of Athletic Training

Admission Requirements

To be admitted to the post-professional DAT program, a student must:

1. Hold a Master's degree with a minimum of 27 graduate credits;
2. Have a minimum cumulative GPA of 3.0 (on a 4.0 scale) in graduate coursework;
3. Submit proof of athletic training certification through the Board of Certification;
4. Submit proof of state credential (if applicable in the student's current state of residence/practice);
5. Have 2-3 years of athletic training work experience (recommended)
6. Submit three letters of recommendation
7. Submit resume or curriculum vitae
8. Submit a statement of professional and personal goals to include reasoning for completing the FIU DAT.

Graduation Requirements

To be eligible for graduation from the post-professional DAT program, a student must complete a total of 48 credits. Students are required to attend a 1-week residency on campus each year. Additionally, a student must be in compliance with the FIU Graduate School graduation requirements to be eligible for graduation.

Required Courses (48 credits)

Applied Scholarship Core

ATR 7630	DAT Applied Scholarship I	3
ATR 7631	DAT Applied Scholarship II	3
ATR 7632	DAT Applied Scholarship III	3

Entrepreneurial Leadership Core

ATR 6507	Entrepreneurial Leadership in Athletic Training	3
ATR 6546	Successful Business Strategies in Athletic Training	3
ATR 6547	Financial Planning for Athletic Training	3
ATR 6548	Athletic Training Consulting	3

Academic Leadership Core

ATR 6557	Navigating Academic in Athletic Training	3
ATR 6555	Academic Leadership in Athletic Training	3
ATR 6556	Curricular Planning and Development in Athletic Training	3
ATR 6558	Teaching and Learning Strategies in Athletic Training	3
ATR 7955	Athletic Training Globalization	3
ATR 7806	DAT Capstone Project (repeated 4 times)	3

Communication Sciences & Disorders

Monica S. Hough, Ph.D., CCC-SLP, *Chair and Professor*
Alliete Alfano, Ph.D., CCC-SLP, *Assistant Professor*
Jean Mead, Ed.D., CCC-SLP, *Coordinator of Clinical Education and Clinical Assistant Professor*
Angela Medina, Ph.D., CCC-SLP, *Assistant Professor*
Mariateresa (Teri) Muñoz, SLP.D, MS, CCC-SLP, *Clinical Assistant Professor*
Eliane Ramos, Ph.D., CCC-SLP, *Clinical Associate Professor*
Chelsea Sommer, Ph.D., CCC-SLP, *Assistant Professor*

Communication Sciences and Disorders (CSD) is one of the Departments in the Nicole Wertheim College of Nursing and Health Sciences. This CSD Department offers a master's degree program in Speech Language Pathology. Additionally, ten required graduate prerequisite courses are offered for interested applicants who have a bachelor's degree in another discipline via the Graduate Certificate in CSD. The unique focus of the CSD department is one of Cultural and Linguistic Diversity (CLD). The goal of the department is to educate CLD professionals to meet the needs of multicultural populations with communication disorders. Students matriculating in the program will benefit from the infusion of CLD throughout the curriculum. Special emphasis is placed on the provision of services to the bilingual population of the Metropolitan Miami area. Students will take extra coursework that emphasize multilingual/multicultural issues as they apply to language acquisition as well as assessment and intervention of speech and language disorders in adults and children.

Students will have opportunities to receive clinical education from a variety of clinical settings in the Miami Metropolitan area including hospitals, schools, private practices and community based clinics that will further their experience with multilingual/multicultural populations. They also will be required to engage in research projects with faculty members. A description of the admission requirements and a description of the master's program follow.

Admission Criteria

Applicants for admission to the master's degree program must meet the current FIU minimum standards for admission to graduate school.

1. A grade point average of 3.0 in the last 60 hours of undergraduate study
2. Bachelor's degree
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Additionally, the CSD department requires the following for admission to the graduate program:

1. Departmental application
2. FIU Graduate School online application
3. Statement of purpose summarizing skills and interests in the program
4. Two letters of recommendation from persons with knowledge of academic performance
5. Bachelor's degree in Communication Sciences and Disorders or completion of the 10 required prerequisite courses.
6. Students considered for Masters' SLP admission will be invited for an interview and asked to complete a spontaneous writing sample. Accommodations will be made for invited students who are not able to come to campus.

Requirements for students without a bachelor's degree in Communication Sciences and Disorders

The Department of Communication Sciences and Disorders requires an individual applying for the master's degree to hold a bachelor's degree in communication disorders or its equivalent. An applicant's undergraduate background influences the time necessary to complete the graduate degree, as there are 10 prerequisite courses required for entrance to the graduate program via the Graduate Certificate program in CSD (28 credits). The following courses or their equivalents are required in the Graduate Certificate in CSD:

LIN 5018	Introduction to Linguistics	3
SPA 5012C	Introduction to Communication Sciences and Disorders	3
SPA 5009C	Normal Communication Development and Disorders	3
SPA 5150C	Acoustics of the Sciences of Speech and Hearing	3
SPA 5035C	Disorders of Hearing and Audiological Sciences	3
SPA 5051C	Clinical Observation, Management, and Procedures in Communication Disorders	3
SPA 5102C	Advanced Human Anatomy and Physiology of Mechanisms of Communication	3
SPA 5102L	Laboratory in Advanced Human Anatomy and Physiology of Mechanisms of Communication	1
SPA 5113C	Advanced Applied Phonetics	3
SPA 6322	Aural Habilitation and Rehabilitation	3

Master of Science in Speech-Language Pathology

The Master of Science in Speech-Language Pathology consists of 61 graduate hours. Full time enrollment is required. Students will complete six semesters in the program. Student progress will be monitored each semester by departmental faculty.

An overall GPA of 3.0 is required for graduation. A grade of "B" or higher is required for all courses in the program of study. If a student receives a grade of "B-" or below, then that course must be retaken; however, only two courses can be repeated. Any student who earns a grade of "B-" or lower in more than two courses will be terminated from the program.

Clinical practicum hours will be obtained in a variety of community settings. A minimum of 400 clinical clock hours are required for graduation. Passing the PRAXIS examination (162 passing score) is required for degree completion.

The program of study provides students with theoretical

and clinical education to develop the competencies needed to practice as a speech-language pathologist. Upon completion of the master's degree, the graduate will have met all academic and practicum requirements for applying for the Certificate of Clinical Competence awarded by the American Speech-Language-Hearing Association.

The Master of Science (M.S.) in Speech-Language Pathology at Florida International University is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association, 2200 Research Blvd, Rockville, MD 20850, (301) 296-5700. Please feel free to contact the CAA if you have any questions about accreditation.

Program of Study

Core Courses in Speech-Language Pathology (52)

Speech: (18)

SPA 5204	Phonological Disorders	3
SPA 5216	Vocal and Velopharyngeal Disorders	3
SPA 5225	Fluency Disorders	3
SPA 5107	Neurological Bases of Communication Disorders	3
SPA 6232	Neuromotor Communication Disorders	3
SPA 6565	Dysphagia	3

Language: (18)

SPA 5402	Language Learning in Preschool Children	3
SPA 5403	Language Learning in School-Aged Children	3
SPA 6406	Dual Language Acquisition and Disorders	3
SPA 6410	Aphasia and Related Disorders	3
SPA 6005	Assessment & Treatment of the Bilingual Child with Communication Disorders	3
SPA 6479	Communication Disorders and Aging in a Bilingual Society	3

Practical Courses: (16)

SPA 5553	Differential Diagnosis of Communicative Disorders	3
SPA 5935L	Pre-Clinic Seminar	1
SPA 5500	Basic Clinical Practicum	3
SPA 5502	Intermediate Clinical Practicum	3
SPA 6505	Advanced Clinical Practicum**	3

***This clinical practicum must be repeated for a total of 12 credits in clinical practice.*

Research

[Thesis–9 credits]

SPA 5805	Research Methodology in Communication Disorders	3
SPA 6971	Master's Thesis	6

[Non-Thesis–6 credits]

SPA 5805	Research Methodology in Communication Disorders	3
SPA 6930	Master's Project	3

Students will enroll in 1 credit of Master's Project per semester in each of their last 3 semesters in the program.

Electives: (3)

The non-thesis option also mandates the selection of 1 of the following elective courses for an additional 3 credits.

**SPA 6322	Aural Habilitation and Rehabilitation	3
SPA 6254	Adult Communication Disorders and Cognition	3
SPA 6559	Augmentative and Alternative Communication	3
SPA 6938	Topics in Speech Pathology	3

**Students who have not taken this course via the Graduate Certificate or in their undergraduate CSD program at another university will be required to take this course for the elective requirement.

Nursing

Strickland, Ora, Ph.D., DSc (Hon), RN, FAAN *Dean and Professor, Nursing*
Alfonso, Fernando, DNP, CRNA, APRN, *Clinical Assistant Professor, Nurse Anesthesia*
Brenes, Francisco, Ph.D., APRN, PMHNP-BC, FNP-BC, *Clinical Assistant Professor and Psychiatric-Mental Health NP Program Leader*
Brooten, Dorothy, Ph.D., RN, FAAN, *Professor Emeritus*
Brown, Ellen, Ed.D., RN, APRN, *Associate Professor and Erica Wertheim Zohar Endowed Chair in Community Mental Health, Graduate Nursing*
Buscemi, Charles, Ph.D., APRN, FNP-BC, CWCN, *Interim Director, Doctor of Nursing Practice Program and Clinical Associate Professor*
Campbell, Yasmine, DNP, CRNA, APRN, RN, *Clinical Assistant Professor, Nurse Anesthesia*
Diaz, Valerie, DNP, CRNA, APRN, RN, *Clinical Assistant Professor, Nurse Anesthesia*
Dlugasch, Lucie, Ph.D., APRN, CNE, FAANP, *Clinical Associate Professor, Adult-Gerontology Nurse Practitioner Program Leader*
Fenkl, Eric, Ph.D., RN, CNE, *Associate Professor*
Framil, Carmen, DNP, APRN, ANP-BC, *Clinical Assistant Professor*
Newman-Giger, Joyce, Ed.D., APRN, BC, FAAN, *Professor, Nursing*
Glymph, Derrick C., DNP-NA, CRNA, APRN, *Clinical Associate Professor and Enrollment and Global Initiatives Coordinator, Nursing*
Goldin, Deana, Ph.D, DNP, APRN, FNP-BC, PMHNP-BC, *Clinical Associate Professor and FNP Program Leader*
Gonzalez, Arturo, DNP, APRN, NP-C, ANP-BC, CWCN-AP, RN, *Clinical Associate Professor*
Gonzalez, Vicente, DNP, CRNA, APRN, *Coordinator of Clinical Education and Clinical Assistant Professor, Nurse Anesthesia*
Gordon, Vanessa, APRN, RN, FNP-BC, *Director of Graduate Clinical Placement and Clinical Assistant Professor*
Gordon, Yhovana, Ed.D., DNP, RN, APRN, FNP-BC, *Associate Dean of Academic Affairs and Clinical Associate Professor*
Miller, Ann, DNP, CRNA, APRN, *Assistant Chair and Clinical Associate Professor, Nurse Anesthesia*
Miller, Audrey P., Ph.D., MSN Ed, APRN, PPCNP-BC, CPN, CNE, *Clinical Associate Professor, Nurse Educator Program Leader*
Porter, Luz, Ph.D., RN, APRN, FAAN, *Professor Emeritus*
Roche, Rosa, Ph.D., APRN, PPCNP-BC, *Interim Chair, Graduate Nursing Advanced Practice Nursing Programs, Clinical Associate Professor, Pediatric NP Program Leader*
Sherman, Dana, DNP, ANP-BC, FNP-BC, *Clinical Assistant Professor*
Sherman, Deborah, Ph.D., APRN, ACHPN, FAAN, *Professor*
Thomas, Tami, Ph.D., RN, CPNP, FAANP, FAAN *Associate Dean of Research, Director of PhD Program, Professor and Dr. Herbert and Nicole Wertheim Endowed Chair in Prevention and Family Health*
Valdes, Jorge, DNP, CRNA, APRN, *Chair and Clinical Associate Professor, Nurse Anesthesia*
Youngblut, Jo-Anne, Ph.D., RN, FAAN, *Professor Emeritus*

The Master of Science in Nursing (MSN) program is accredited by the Commission on Collegiate Nursing Education (CCNE), 655 K Street, NW, Suite 750 (202) 887-8476 and and is approved by the Florida Board of Nursing (4052 Bald Cypress Way, BIN CO2, Tallahassee, FL 32399, 850-245-4125).

The Nicole Wertheim College of Nursing and Health Sciences also offers a Ph.D. in Nursing and Doctor of Nursing Practice degree, as well as selected continuing education courses.

Master of Science in Nursing

The College offers a program of study leading to the Master of Science in Nursing (MSN) degree. This degree is typically completed curriculum, as part of the post-BSN-TO-DNP curriculum, to prepare qualified professional nurses for advanced nursing roles in the care of adults, children, and families; as well as a separate program of study to prepare qualified professional nurses to function as nurse educators for teaching positions in colleges, universities, and clinical practice settings. The program offers clinical majors in adult-gerontology primary care advanced practice nursing (AGNP), pediatric primary care advanced practice nursing (PNP), family health advanced practice nursing (FNP), psychiatric-mental health advanced practice nursing (PMHNP), and nurse anesthetist (AN), and tracks for the Nurse Executive (NE) and Nurse Educator. The design of the program allows for the development of the nurse practitioner role, the nurse anesthetist role or nurse educator role.

Throughout the curriculum, students are guided in the process of self-development to pursue excellence in professional and scholarly endeavors. The program allows flexibility within the basic curricular structure through individualized learning experiences, electives, a thesis, masters paper, research project or translational research and the opportunity to investigate an area of interest in advanced study.

The curriculum model is structured so that students will complete the program in 6 semesters (2 years) only with credits varying from 6-11 credit hours per semester. Courses are offered online and/or on ground allowing students flexibility.

Graduates of these programs are eligible to sit for national certification examinations in their respective specialties and apply for APRN licensure (APRN roles) as/if appropriate.

Program Objectives

The objectives of the MSN program are to prepare graduates as:
1. Leaders, educators, and change agents in the delivery of high-quality, accessible, culturally competent healthcare in local and global societies.
2. Professional advanced practice nurses who use communication, interprofessional collaboration, and synthesis of evidence-based practice, scholarship, and research in the delivery of health care for local and global societies.
3. Facilitators and leaders of interprofessional health care teams who use an understanding of organizational

systems and the environment and are able to integrate care services and heath care policy across local and global societies.
4. Critical thinkers who actively and skillfully utilize ethical principles into the translation of evidence into safe, affordable, accessible, innovative, quality care.
5. Advanced practice nurses who deliver patient and family centered holistic care using knowledge of basic sciences including genetics/genomics, preventive health, and advances in health technology
6. Advanced practice nurses who analyze, influence, and develop health policy that promotes access and delivery of high quality healthcare to diverse populations.

Common Prerequisite Courses and Equivalencies

FIU Course(s)	Equivalent Course(s)
STA 3145	STA X014
CHM 1033/L	CHM X033
PCB 2099/L	BSC X085C
ZOO 3731/L	BSC X086C
MCB 2000/L	MCB X010C
DEP 2000	DEP X004
PSY 2012	PSY X012
HUN 2201	HUN X201

Courses which form part of the statewide articulation between the State University System and the Community College System will fulfill the Lower Division Common Prerequisites.

For generic course substitutions/equivalencies for Common Program Prerequisites offered at community colleges, state colleges, or state universities, visit: **http://www.flvc.org**, See Common Prerequisite Manual.

Program Policies

Nursing majors are responsible for transportation expenses related to clinical experiences. They are required to carry health and accident insurance. To safeguard the health of clients, nursing students are required to submit proof of immunizations upon entry to into the nursing program. Students must submit proof of basic cardiopulmonary resuscitation (CPR) certification (American Heart Association) prior to entering clinical courses in the nursing major. This CPR certification must cover the period of enrollment in the major.

The College reserves the right to terminate a student from the nursing program for reasons related to the inability to safely carry out professional responsibilities.

Application Process

Applicants must complete the following steps in order to be considered for admission:

STEP 1 – Submit an application to Nursing CAS (the Centralized Application Service for Nursing Programs)

1. Complete an online application via Nursing CAS **http://www.nursingcas.org** and pay the appropriate fee to Nursing CAS.
2. Complete the required FIU supplemental application and pay the $30 fee.
3. Send official transcripts from **ALL SCHOOLS attended** (all Associates & Bachelors degree coursework) to Nursing CAS for upload and verification. **EXCEPTION:** Foreign transcripts, along with their official evaluations (grades, credits, and GPA in U.S. terms), should be sent directly to the college at the following address: Nicole Wertheim College of Nursing & Health Sciences, AHC-3, Room 121, 11200 S.W. 8th Street, Miami, FL, 33199.
4. Upload all required supplemental items including three (3) professional nursing references, professional CV, copy of an active Florida RN License, and Personal Statement to Nursing CAS.

STEP 2 – Professional Interview

1. Following a review of all completed applications a select number of applicants will be offered the opportunity to participate in a panel interview.
2. Interview candidates may be instructed to bring an additional set of official transcripts to their interview appointment.

Anesthesia Nursing Application Process

Applicants must complete the following steps in order to be considered for admission:

1. Complete two applications as indicated and return to the appropriate offices:
   a. Complete a FIU graduate admissions application online available at **https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html**
   b. Complete an online application via Nursing CAS **http://www.nursingcas.org** and pay the appropriate fee to Nursing CAS
2. Request an official transcript of records from each college or university attended for undergraduate and graduate work. A transcript must be sent to Florida International University OneStop, 11200 SW 8 street, SASC First Floor, Miami, Florida 33199 and to the Anesthesiology Nursing program as described in the program application package.
3. Applicants to the Anesthesiology Nursing program are reviewed by the program Admissions Committee and selected applicants are invited for interview. The program Admissions Committee makes final recommendations for admission.

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Academic Standing

Good Standing: To achieve and maintain a classification of good standing, the student must maintain a minimum G.P.A. of 3.0 in the courses required for the MSN and DNP degrees

Progression in the Program

The student must maintain a cumulative GPA of 3.0 in required graduate courses with a minimum of a "B" (85%) or better in all required courses.
If a student earns less than an 85 in any course, the course must be repeated and earn a grade of "85" or better. If this course is a pre requisite for another course,

the student will not be allowed to continue enrollment for that course and may be allowed to enroll in other courses if applicable to the program. Only one course repeat in the program will be allowed. Therefore, a student who earns a grade below an 85 in more than one course will be dismissed from the program.
Students may not have a cumulative GPA below 3.0 in the courses for more than two semesters. If the cumulative GPA for required coursework is below 3.0 for a third semester, the student will be dismissed from the program.

Graduation Requirements

To be eligible for graduation the student must:
• Meet all University Graduate School requirements for graduation.
• Satisfactorily complete all didactic and fieldwork requirements within degree program guidelines.
• Have a minimum graduate GPA of 3.0 in the degree required courses.

Master of Science in Nursing – Adult-Gerontology Primary Care Nurse Practitioner

Admission Requirements

1. Successful completion of all the admission requirements for graduate education at Florida International University and the Nicole Wertheim College of Nursing and Health Sciences.
2. Cumulative undergraduate GPA of 3.0 or greater in a 4.0 scale (CUM GPA is a calculation inclusive of all academic coursework including courses at the community college level.)
3. UG 60 GPA of 3.0 or greater in Bachelor of Nursing upper division coursework.
4. Current State of Florida RN license. Out-of-state students must obtain a license to practice in Florida prior to admission.
5. Baccalaureate degree in Nursing (BSN) from a program accredited by the Commission on Collegiate Nursing Education (CCNE) or by the Accreditation Commission for Education in Nursing (ACEN) formerly known as the National League for Nursing Accrediting Commission (NLNAC). Applicants from Programs without such accreditation will be considered on an individual basis.
6. Completion of all MSN admission paperwork including the NursingCAS application, FIU supplemental application, a written essay, recommendations, and Curriculum Vitae, as well as favorable personal interview with MSN Committee.

Graduation Requirements

1. Successful completion of 45-48 semester credits in nursing required courses and all clinical experience requirements.
2. Completion of a thesis (6 credits), a master's paper (3 credits), or a research project (3 credits).
3. Achievement of an overall cumulative GPA of 3.0 or above. See Graduate Catalog in University Graduate School Rules and Regulations for information on Academic Warning, Probation, and Dismissal.
4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "B-"or below will not count toward satisfying graduate degree requirements.
5. With the exception of thesis courses, students are expected to register for courses with letter grades.

Curriculum

MSN Level Course Requirements

Graduate Nursing Core: (9 credits)

NGR 5110	Theories in Nursing	3
NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3

Advanced Practice Nursing Core: (13 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice	3
NGR 5064C	Diagnostic and Therapeutics in Advanced Nursing Practice	3

Clinical Education Seminar (1)

NGR 6743	Clinical Education Seminar	1

Advanced Adult-Gerontology Nursing: (15 credits)

NGR 6201C	Advanced Adult-Gerontology Nursing I	3
NGR 6201L	Advanced Adult-Gerontology Nursing Practice I	3
NGR 6202C	Advanced Adult-Gerontology Nursing II	3
NGR 6202L	Advanced Adult-Gerontology Nursing Practice II	3
NGR 6209	Clinical Decision Making in Advanced Adult-Gerontology Nursing	3

Role Development: (4 credits)
Advanced Practice Nurse

NGR 6700L	Role Synthesis in Advanced Adult-Gerontology Nursing Practice	4

Master of Science in Nursing – Pediatric Primary Care Nurse Practitioner

Admission Requirements

1. Successful completion of all the admission requirements for graduate education at Florida International University and the Nicole Wertheim College of Nursing and Health Sciences.
2. Cumulative undergraduate GPA of 3.0 or greater in a 4.0 scale (CUM GPA is a calculation inclusive of all academic coursework including courses at the community college level.)
3. UG 60 GPA of 3.0 or greater in Bachelor of Nursing upper division coursework.
4. Current State of Florida RN license. Out-of-state students must obtain a license to practice in Florida prior to admission.
5. Baccalaureate degree in Nursing (BSN) from a program accredited by the Commission on Collegiate Nursing Education (CCNE) or by the Accreditation Commission for Education in Nursing (ACEN) formerly known as the National League for Nursing Accrediting Commission (NLNAC). Applicants from Programs without such accreditation will be considered on an individual basis.
6. Completion of all MSN admission paperwork including the NursingCAS application, FIU supplemental

application, a written essay, recommendations, and Curriculum Vitae, as well as favorable personal interview with MSN Committee.

Graduation Requirements

1. Successful completion of 45-48 semester credits in nursing required courses and all clinical experience requirements.
2. Completion of a thesis (6 credits), a master's paper (3 credits), or a research project (3 credits).
3. Achievement of an overall cumulative GPA of 3.0 or above. See Graduate Catalog in University Graduate School Rules and Regulations for information on Academic Warning, Probation, and Dismissal.
4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "B-" or below will not count toward satisfying graduate degree requirements.
5. With the exception of thesis courses, students are expected to register for courses with letter grades. Electives may be taken as pass/fail subject to the approval of the advisor.

Curriculum

MSN Level Course Requirements

Graduate Nursing Core: (9 credits)

NGR 5110	Theories in Nursing	3
NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3

Advanced Practice Nursing Core (ACNP): (13 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice	3
NGR 5064C	Diagnostic and Therapeutics in Advanced Nursing Practice	3

Clinical Education Seminar (1)

NGR 6743	Clinical Education Seminar	1

Advanced Child Health Nursing: (15 credits)

NGR 6301C	Advanced Child Health Nursing I	3
NGR 6301L	Advanced Child Health Nursing Practice I	3
NGR 6302	Advanced Child Health Nursing II	3
NGR 6302L	Advanced Child Health Nursing Practice II	3
NGR 6337	Clinical Decision Making in Advanced Child Health Nursing	3

Role Development: (4 credits)
Advanced Practice Nurse

NGR 6337L	Role Synthesis in Advanced Child Health Nursing Practice	4

Master of Science in Nursing –Family Nurse Practitioner

Admission Requirements

1. Successful completion of all the admission requirements for graduate education at Florida International University and the Nicole Wertheim College of Nursing and Health Sciences.
2. Cumulative undergraduate GPA of 3.0 or greater in a 4.0 scale (CUM GPA is a calculation inclusive of all academic coursework including courses at the community college level.)
3. UG 60 GPA of 3.0 or greater in Bachelor of Nursing upper division coursework.
4. Current State of Florida RN license. Out-of-state students must obtain a license to practice in Florida prior to admission.
5. Baccalaureate degree in Nursing (BSN) from a program accredited by the Commission on Collegiate Nursing Education (CCNE) or by the Accreditation Commission for Education in Nursing (ACEN) formerly known as the National League for Nursing Accrediting Commission (NLNAC). Applicants from Programs without such accreditation will be considered on an individual basis.
6. Completion of all MSN admission paperwork including the NursingCAS application, FIU supplemental application, a written essay, recommendations, and Curriculum Vitae, as well as favorable personal interview with MSN Committee.

Graduation Requirements

1. Successful completion of 49-52 semester credits in nursing required courses and all clinical experience requirements.
2. Completion of a thesis (6 credits), a master's paper (3 credits), or a research project (3 credits).
3. Achievement of an overall cumulative GPA of 3.0 or above. See Graduate Catalog in University Graduate School Rules and Regulations for information on Academic Warning, Probation, and Dismissal.
4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "B-" or below will not count toward satisfying graduate degree requirements.
5. With the exception of thesis courses, students are expected to register for courses with letter grades.

Curriculum

MSN Level Course Requirements

Graduate Nursing Core: (9 credits)

NGR 5110	Theories in Nursing	3
NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3

Advanced Practice Nursing Core (FNP): (13 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice	3
NGR 5064C	Diagnostic and Therapeutics in Advanced Nursing Practice	3

Clinical Education Seminar (1)

NGR 6743	Clinical Education Seminar	1

Advanced Family Health Nursing: (19 credits)

NGR 6601C	Advanced Family Health Nursing I	4
NGR 6601L	Advanced Family Health Nursing Practice I	4
NGR 6602C	Advanced Family Health Nursing II	4
NGR 6602L	Advanced Family Health Nursing Practice II	4

NGR 6748	Clinical Decision Making in Advanced Family Nursing Practice	3

Role Development: (4 credits)
Advanced Practice Nurse

NGR 6619L	Role Synthesis in Advanced Family Health Nursing Practice	4

Master of Science in Nursing – Psychiatric-Mental Health Nurse Practitioner

Admission Requirements

1. Successful completion of all the admission requirements for graduate education at Florida International University and the Nicole Wertheim College of Nursing and Health Sciences.
2. Cumulative undergraduate GPA of 3.0 or greater in a 4.0 scale (CUM GPA is a calculation inclusive of all academic coursework including courses at the community college level.)
3. UG 60 GPA of 3.0 or greater in Bachelor of Nursing upper division coursework.
4. Current State of Florida RN license. Out-of-state students must obtain a license to practice in Florida prior to admission.
5. Baccalaureate degree in Nursing (BSN) from a program accredited by the Commission on Collegiate Nursing Education (CCNE) or by the Accreditation Commission for Education in Nursing (ACEN) formerly known as the National League for Nursing Accrediting Commission (NLNAC). Applicants from Programs without such accreditation will be considered on an individual basis.
6. Completion of all MSN admission paperwork including the NursingCAS application, FIU supplemental application, a written essay, recommendations, and Curriculum Vitae, as well as favorable personal interview with MSN Committee.

Graduation Requirements

1. Successful completion of 45-48 semester credits in nursing required courses and all clinical experience requirements.
2. Completion of a thesis (6 credits), a master's paper (3 credits), or a research project (3 credits).
3. Achievement of an overall cumulative GPA of 3.0 or above. See Graduate Catalog in University Graduate School Rules and Regulations for information on Academic Warning, Probation, and Dismissal.
4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "B-" or below will not count toward satisfying graduate degree requirements.
5. With the exception of thesis courses, students are expected to register for courses with letter grades.

Curriculum

MSN Level Course Requirements

Graduate Nursing Core: (9 credits)

NGR 5110	Theories in Nursing	3
NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3

Advanced Practice Nursing Core (APNP): (11 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice	3
NGR 6743	Clinical Education Seminar	1

Advanced Psychiatric-Mental Health Nursing: (18 credits)

NGR 6503	Advanced Psychiatric-Mental Health Nursing I	3
NGR 6503L	Advanced Psychiatric-Mental Health Nursing Practice I	3
NGR 6504C	Advanced Psychiatric-Mental Health Nursing II	3
NGR 6504L	Advanced Psychiatric-Mental Health Nursing Practice II	3
NGR 6538	Psychopharmacology for Advanced Practice Nursing	3
NGR 6560	Advanced Psychiatric Mental Health Clinical Decision Making	3

Role Development: (4 credits)
Advanced Practice Nurse

NGR 6505L	Role Synthesis in Advanced Psychiatric Mental Health Nursing Practice	4

Master of Science in Nursing – Nurse Educator Track

Curriculum – Total 38 credits

MSN Level Common Core Requirements -
Graduate Nursing Core: (12 credits)

NGR 5110	Theories in Nursing	3
NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3
NGR 6910C	Research Project	3

Advanced Practice Nursing Core • Direct Care Core Courses (10 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiologic Basis of ANP	3
NGR 6172	Pharmacological Concepts in ANP	3

Nursing Educator Course Requirements (16 credits)

NGR 6713	Curriculum Development in Nursing	3
NGR 6715	Instructional Technology in Nursing and Health Sciences	3
NGR 6714C	Clinical Teaching Strategies for Nursing	3
NGR 6708C	Classroom Teaching Strategies for Nursing	3
NGR 6718	Testing and Evaluation in Nursing Education	3
NGR 6710L	Clinical Specialty Practicum for the Nurse Educator	1

Master of Science in Nursing – Nurse Executive Track

Note: A moratorium has been placed on admissions to the Nurse Executive Track.

Admission Requirements

The applicant must:

1. Have completed a baccalaureate degree in nursing which is accredited by the National League for Nursing Accrediting Commission (NLNAC), or the Commission on Collegiate Nursing Education (CCNE). Applicants with a baccalaureate degree from nursing programs without NLNAC or CCNE accreditation will be considered on an individual basis. RN applicants (with a baccalaureate degree in another field) to the MSN program must have completed a non-nursing baccalaureate degree with a GPA of 3.0 or higher from a nationally accredited college or university.
2. Have evidence of a current RN licensure in Florida.
3. Have completed introductory courses in statistics (3 credits), and basic health assessment (3 credits). RN applicants with an Associate Degree in Nursing and a baccalaureate degree in another field who are applying to the MSN program must have completed a non-nursing baccalaureate degree with a GPA of 3.0 or higher from a nationally accredited college or university. These RN applicants must have completed undergraduate courses with a grade of "C" or higher: 4 credits each of human anatomy & lab, human physiology & lab, microbiology & lab, and survey of chemistry & lab; and 3 credits each of human growth & development, statistics, psychology, principles of nutrition, and ethics.
5. Submit evidence of basic computer application (word processing) skills.
6. Have a faculty interview.
7. Provide the following:
   a. Statement of philosophy of nursing and professional goals.
   b. Letters of reference from: 1) a previous nursing faculty; 2) a current immediate supervisor; and 3) a co-worker.
8. For international students (graduates of foreign nursing schools) only:
   a. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) of 550 or for the International English Language Testing System (IELTS). Minimum required scores is 550 on the paper-based TOEFL, 80 on the internet-based TOEFL (iBT) or 6.5 overall on the IELTS.
   b. CGFNS certification or Florida RN license.
9. The Florida Board of Nursing and clinical agencies require the disclosure of conviction records for misdemeanors and/or felonies; therefore, this information will be required at the time of application. Applicants are required to submit to criminal background checks and drug testing. Expenses associated with background checks and drug testing (including repeat testing) are the responsibility of the student. Findings may affect a student's ability to be admitted, to participate in clinical experiences and complete the program, and/or obtain advanced licensure/ certification.

Degree Requirements

1. Completion of 43 semester credits. Minimum of 36-40 credits in nursing and 3-6 credits of non-nursing electives. The non-nursing electives are restricted to supporting courses for the specialty area.
2. Completion of a thesis (6 credits), a master's paper (3 credits), or a research project (3 credits). Students electing a master's paper or research project must complete an additional three hours of cognate course(s).
3. Achievement of an overall cumulative GPA of 3.0 or above. See Graduate Catalog in University Graduate School Rules and Regulations for information on Academic Warning, Probation, and Dismissal.
4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "B-" or below will not count toward satisfying graduate degree requirements.
5. With the exception of thesis courses, students are expected to register for courses with letter grades. Electives may be taken as pass/fail subject to the approval of the advisor.

Curriculum

MSN Level Course Requirements

Graduate Nursing Core: (9 credits)

NGR 5110	Theories in Nursing	3
NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3

Advanced Practice Nursing Core (NE): (9 credits)

NGR 5720C	Org Dynamics of Nursing Systems	3
NGR 6726C	Nursing Management and CQI	3

Nurse Executive: (8 credits)

NGR 5723C	Advanced Nursing Administration I	4
NGR 6724C	Advanced Nursing Administration II	4

Nursing Administration: (7 credits)

NGR 6712C	Advanced Nursing Administration III	4
NGR 6727	Issues & Strategies of Nursing Administration	3

Nursing Education: (7 credits)

NGR 6710	Role Synthesis in Nursing Education	4
NGR 6713	Curriculum Development in Nursing	3

Nurse Executive: (10 credits)

NGR 6712L	Role Synthesis in Nursing Administration	4
HSA 6176	Financing and Reimbursement of Health Systems	3
PHC 6443	Ethical Issues	3

Research: (6 credits)

Master's Thesis Option

NGR 6970	MSN Thesis I	3
NGR 6971	MSN Thesis II	3

OR

Master's Paper Option

NGR 6970	MSN Thesis I (Research Paper)	3
Elective		3

OR

Master's Project Option

NGR 6910C	Research Project	3
Elective		3

Combined BSN/MSN for Foreign-Educated Physician Degree Pathway Track

Note: A moratorium has been placed on admissions to the Foreign-Educated Physician Track.

Admission Requirements

The Combined BSN/MSN track is a pathway for foreign-educated physicians (FEPs) from culturally diverse backgrounds to:

- obtain the BSN degree
- become Registered Nurses (RNs)
- attain the MSN degree
- become eligible to take the Advanced Registered Nurse Practice (APRN) national certification exam

The combined BSN/MSN track is an accelerated program that builds upon the knowledge and skills of the social and physical sciences from a prior BS degree. It is comprised of **63** upper division credits and 44-48 graduate credits, totaling 106 to 110 credit hours. Admission to the MSN component is contingent upon meeting the MSN admission requirements.

To be admitted to the BSN/MSN track, students must:

1. Have completed a medical degree from an accredited non-US university;
2. Have transcripts evaluated by Josef Silny & Associates or by an equivalent transcript evaluation company;
3. Obtain a TOEFL score of 550;
4. Meet nursing entry requirements for computation and reading skills;
5. Meet the admission criteria to be admitted to the University and to the College of Nursing and Health Sciences; and
6. Successfully complete the following nursing prerequisites (with grade of 'C' or above): statistics, human growth & development across the life span, human nutrition, anatomy & physiology, microbiology, chemistry. Transcripts will be evaluated by NWCNHS.
7. The Florida Board of Nursing and clinical agencies require the disclosure of conviction records for misdemeanors and/or felonies; therefore, this information will be required at the time of application. Applicants are required to submit to criminal background checks and drug testing. Expenses associated with background checks and drug testing (including repeat testing) are the responsibility of the student. Findings may affect a student's ability to be admitted, to participate in clinical experiences and complete the program, and/or obtain advanced licensure/ certification.

To advance to the MSN component of this track, (Semesters V-VIII), students must:

1. Have a cumulative GPA of 3.2 or above for Semesters I to IV; and
2. Be licensed as a registered nurse (RN) by the end of Semester V.

Degree Conferrals

Students enrolled in the MSN component must apply to graduate with the BSN during the 4th week of semester VI; BSN degree will be posted at the end of semester VI. Students will graduate with the MSN at the end of semester VIII.

BSN Stop-out Options

1. Low GPA Stop-out Option: Students with <3.2 cumulative GPA for Semesters I to IV will take NUR 4636C (Care of Communities: Community Health Nursing, 4 credits) and NUR 4945L (Senior Clinical Practicum, 4 credits) in Semester V. BSN degree will be awarded at the end of semester V or semester VI depending on availability of NUR 4945L. Students must apply for graduation of the BSN component by the 4th week of the semester they intend to graduate.
2. Failure to Pass NCLEX Stop-out Option: Students not passing NCLEX-RN by the end of Semester V will take NUR 4945L (Senior Clinical Practicum, 4 credits) in Semester VI. BSN degree will be awarded at the end of semester VI. Students must apply for graduation of the BSN component by the 4th week of the semester they intend to graduate.
3. Stop out students will graduate with BSN and will be discontinued from the combined BSN-MSN track.

Curriculum

Semester I – 18 (15 UG/3 Grad)

NUR 3029	Foundations of Nursing Practice	3
NUR 3029C	Foundations of Nursing Practice Laboratory	2
NUR 3029L	Foundations of Nursing Practice Clinical	3
NUR 3066C	Health Assessment and Promotion in Nursing Practice	4
NUR 3119	Professional Nursing: Concepts and Issues	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice (*MSN Requirement*)	3

Semester II – 15 (12 UG/3 Grad)

NUR 3226	Nursing Care of Adults I	3
NUR 3226L	Nursing Care of Adults I Clinical	3
NUR 3227	Nursing Care of Adults II	3
NUR 3227L	Nursing Care of Adults II Clinical	3
NUR 3685L	Integrative Nursing Care I	0
NGR 5141	Pathophysiological Basis of Advanced Nursing Practice (*MSN Requirement*)	3

Semester III – 14 (11 UG/3 Grad)

NUR 3535	Psychosocial Nursing	3
NUR 3535L	Psychosocial Nursing Clinical	3
NUR 4686L	Integrative Nursing Care II	0
NUR 4286	Nursing Care of Older Adults	2
NUR 3821	Professional Nursing Leadership: Concepts and Issues	3
NGR 5110	Theories in Nursing (*MSN Requirement – Not required for BSN*)	3

Semester IV – 17 (17 UG)

NUR 4455	Care of Families: Childbearing Nursing	3
NUR 4455L	Care of Families: Childbearing Nursing Clinical	3
NUR 4355	Care of Families: Childrearing Nursing	3
NUR 4355L	Care of Families: Childrearing Nursing Clinical	3
NUR 4667	Nursing in Global Health Care Systems – *GL*	3
NUR 4940	Senior Clinical Synthesis	2

Low GPA Stop-out Option: Students with <3.2 cumulative GPA for Semesters I to IV will take NUR 4636C (Care of Communities: Community Health Nursing, 4 credits) and NUR 4945L (Senior Clinical Practicum, 4 credits) in Semester V or VI, and end with a BSN degree.

Semester V – 13 (4 UG/10 Grad)

NUR 4636C	Care of Communities: Community Health Nursing	4
NGR 5131	Culture and Advanced Nursing Practice (*MSN Requirement – Not required for BSN*)	3
NGR 6002C	Advanced Health Assessment (*MSN Requirement – Not required for BSN*)	4
NGR 5810	Research Methods in Nursing (*MSN Requirement*)	3

Failure to Pass NCLEX Stop-out Option: Students must pass the NCLEX during semester V. Students not passing the NCLEX-RN by the end of the semester V will take NUR 4945L (Senior Clinical Practicum, 4 credits) in semester VI and will be eligible for a BSN degree at the end of semester VI. (+4 UG credits for Stop Out Students only)

Semester VI

NGR 6201C, or 6301C, or 6601C	Advanced Adult-Gerontology, Child, or Family Health Nursing I	3-4
NGR 6201L, or 6301L, or 6601L	Advanced Adult-Gerontology, Child, or Family Health Nursing Practice I*	3-4
NGR 5XXX	Elective	3

Students must apply for graduation from the BSN by 4th week of semester VI.

Semester VII

NGR 6202C, or 6302C, or 6602C	Advanced Adult-Gerontology, Child, or Family Health Nursing II	3-4
NGR 6202L, or 6302L, or 6602L	Advanced Adult-Gerontology, Child, or Family Health Nursing Practice II*	3-4
NGR 6910C	Research Project	3

Semester VIII

NGR 6209, or 6337, or 6748	Clinical Decision Making in Advanced Adult-Gerontology, Child or Family Health Nursing	3
NGR 6700L, or 6337L, or 6619L	Role Synthesis in Advanced Adult-Gerontology, Child, or Family Health Nursing Practice*	4

Eligible to take APRN National Certification Exam after completion of semester VIII.
Students must apply for graduation from MSN at the beginning of semester VIII.

*All students must have a majority of APRN preceptors in all NP practicum courses.

Repeating Nursing Courses and Dismissal

A grade of "C" or higher in all NUR courses and a grade of "B" or higher in all NGR courses is necessary for continuing in the combined BSN/MSN track. A course in the BSN/MSN track can be repeated only once. If a student fails the same NUR course twice, or two NUR clinical and/or clinical-related courses, or two NGR courses, he/she will be dismissed from the BSN/MSN for FEP track.

RN to BSN/MSN

The RN-to-BSN/MSN track is for students currently licensed to practice as a Registered Nurse (RN). The RN-to-BSN/MSN option allows an RN with an associate degree in nursing from an ACEN (Accreditation Commission for Education in Nursing, formerly NLNAC) accredited institution to: • obtain the BSN degree • attain the MSN degree • become eligible to take national certification exam associated with the selected advanced practice role of preparation

The RN to BSN/MSN requires a minimum of 120 credits for completion of the BSN portion, comprised of 33 upper division and graduate credits, 27 Prior Learning Assessment (PLA) credits (granted upon evaluation of clinical proficiency), and 60 lower division credits that must include:

- human anatomy & lab 4 credits
- human physiology & lab 4 credits
- microbiology & lab 4 credits
- chemistry & lab 4 credits
- human growth & development 3 credits
- statistics 3 credits
- psychology 3 credits
- nutrition 3 credits
- ethics 3 credits,

No more than six (6) transferable credits from other nursing baccalaureate programs will be accepted for the BSN portion of the program of study.

Each applicant's educational record is individually evaluated by the nursing unit. To progress through the curriculum, the RN must successfully complete prerequisite, corequisite and required courses for the curriculum plan in effect at the time of admission.

Students must complete the University Core Curriculum, an evaluation of prior learning, and be provisionally be admitted to the MSN Program prior to enrollment in Level III courses. Applicants must have a 3.2 cumulative GPA to be provisionally admitted to the MSN Program and progress to Level III. Students with less than a 3.2 GPA will be transferred to the RN-BSN track to complete their baccalaureate.

Admission to the Master of Science in Nursing (MSN) program is contingent upon meeting Graduate Nursing and University Graduate School (UGS) admission requirements.

The MSN degree prepares the RN for advanced nursing roles. Upon admission in the MSN program, students select one of the following concentration tracks: a) nurse educator, b) adult-gerontology primary care nurse practitioner, c) family nurse practitioner, d) pediatric primary care nurse practitioner, or e) psychiatric-mental health nurse practitioner; and enroll in a prescribed set of core courses central to all graduate nursing roles as well as courses specific to their concentration.

Successful completion of the nurse practitioner program qualifies students to take appropriate national certification examinations and apply for licensure as an APRN in Florida and other states. Nurse Educator graduates are eligible for national certification from the National League of Nursing, and the American Association of the Colleges of Nursing. Note that all the above concentration tracks lead to the APRN eligibility except the nurse educator track.

Students must be provisionally admitted to the MSN program prior to taking graduate level NGR 5141 Pathophysiological Basis of Advanced Nursing Practice, NGR 5131 Culture and Advanced Nursing Practice, and NGR 6002C Advanced Health Assessment courses. RNs must have one-year clinical nursing experience and obtain professional liability insurance prior to registering for clinical/practicum courses.

Admission Requirements

Degree seeking applicants with fewer than 60 semester hours of transfer credit must satisfy the same admission requirements as beginning freshmen. Visit the information website for this program at **http://rn2bsn.fiu.edu/** for program information.

For admission to the RN-BSN-MSN track a student must:

1. Active, Unencumbered Florida RN license or enhanced licensure through the Nurse Licensure Compact (eNLC)
2. Cumulative 3.2 GPA (no prerequisite grade below a C) from an ACEN (Accreditation Commission for Education in Nursing, formerly NLNAC) accredited ASN program
3. Minimum 60 transferable lower division college credits,
4. Meet a) Florida mandated Gordon Rule requirements; b) University Core Curriculum requirements; and c) University foreign language requirement. These requirements can be met with an Associate in Arts (AA) from a Florida College System or non-nursing Bachelor's degree in another field from an accredited institution.
5. Applicants with foreign degrees that have Florida RN licensure can apply if degree earned is evaluated to be equivalent to a Bachelor's degree or Doctorate in Medicine degree at an accredited U.S. institution,
6. RN-BSN applicants who have taken BSN courses at another accredited institution and are requesting a transfer into the NWCHNS RN-BSN track must have all coursework evaluated by FIU Nursing Faculty to determine course equivalency and are allowed a maximum of 6 transfer upper division Nursing credits and,
7. Approved transferred nursing coursework must be completed within 5 years of enrollment at the time of admission.
8. See Generic BSN for program policies related to background checks, immunizations, health requirements, and CPR.

Advanced Placement of RNs

Advanced placement in both nursing and non-nursing courses is facilitated by earning credits through examination, i.e., challenge or equivalency exams such as CLEP or Excelsior College examinations (Psychiatric-Mental Health Nursing, Adult Health Nursing, and Maternal-Child Nursing) with a grade of "C" or higher, or completion of Prior Learning Assessment (PLA) of clinical competencies*

*Up to 27 PLA credits towards completion of the BSN at FIU can be awarded through FIU faculty-led evaluation of competency** in specific subjects within the nursing curricula (i.e. Adult Health, Psychiatric-Mental Health, and Obstetrics/Pediatrics).

**Upon admission into the program, students will be provided with the steps to complete this process.

RNs who are provisionally admitted to the MSN program complete three graduate level courses (Advanced Health Assessment, Pathophysiological Basis of ANP and Culture & Advanced Nursing Practice) while taking BSN courses.

Repeating Nursing Courses and Dismissal
A grade of 'C' or higher in all NUR courses and a grade of 'B' or higher in all NGR courses is necessary for continuing in the combined RN-to-BSN/MSN track. A course in the RN-to-BSN/MSN track can be repeated only once. If a student fails the same NUR/NGR course twice, or two different NUR/NGR courses, they will be dismissed from the RN-to-BSN/MSN track.

Degrees Conferral
Students enrolled in the RN-to-BSN/MSN must apply to graduate with the BSN and meet University Graduation application deadlines for semester IV. Students must apply to graduate with the MSN and meet University Graduation application deadlines for semester VIII [Nurse Educator track] or semester IX [Nurse Practitioner tracks].

Curriculum

RN Baccalaureate Level Course Requirements: (10)

(For RN with BS/BA in another field)

NUR 3119	Professional Nursing: Concepts and Issues	3
NUR 3668	Nursing Leadership in Global Health Care	3
NUR 4636C	Care of Families: Community Health Nursing	4

Level I: (up to 33 credits)

NUR 3821	Professional Nursing Leadership: Concepts and Issues	3
NUR 3805	Professional Nursing 1: Socialization (up to 27 PLA credits)*	3

Prior Learning Assessment (PLA) process is integrated as part of this 3-credit course, designed to support RN-BSN nursing students' transition and socialization to the role of BSN prepared professional nurses, as well signal students' success in demonstrating mastery of prior learning in specific nursing subject areas (i.e., Adult Health, Psychiatric-Mental Health, and Obstetrics/Pediatrics).

Level II: (9 credits)**

NUR 3666	Evidence-Based Nursing and Research in Global Health Care	3
NUR 3119	Professional Nursing: Concepts and Issues	3

** Students must apply to the MSN program at this point; Applicants must have a 3.2 GPA to be provisionally admitted to the MSN program. See University catalog/nursing advisor for pre-and-co-requisite courses.

Level III: (10 credits)

NGR 5141	Pathophysiological Basis of ANP	3
NGR 5131	Culture and Advanced Nursing Practice	3

Level IV: (8 credits)

NUR 4945L	Senior Clinical Practicum	4
NGR 6002C	Advanced Health Assessment (45-hours Clinical)	4

BSN degree awarded at the completion of Level IV and students will be fully admitted to the MSN.
MSN Progression

MSN Level Course Requirements begin in Semester V and vary in length depending on the role specialty plan of study selected (i.e., across semesters V to VII for the Nurse Educator track or V to IX for Nurse Practitioner tracks). Upon admission into the MSN program, students will be provided with plan of study for selected role specialty track.

MSN Level Course Requirements
Graduate Nursing Core: (9 credits)

NGR 5110	Theories in Nursing	3
NGR 5131	Culture and Advanced Nursing Practice [taken during BSN enrollment, Level III]	3
NGR 5810	Research Methods in Nursing	3

Direct Care Core: (10-13 credits)

NGR 6002C	Advanced Health Assessment [taken during BSN enrollment, Level IV]	4
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice [taken during BSN enrollment, Level III]	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice	3
NGR 5064C	Diagnostic and Therapeutics in Advanced Nursing Practice [Nurse Practitioner tracks only]	3

Clinical Education Seminar and Role Development of the APN (3) [Nurse Practitioner tracks only]

NGR 6743	Clinical Education Seminar	1
NGR 6703	Role Development of the Advanced Practice Nurse	2

Advanced Nursing Practice Role:
Select one Specialty

Nursing Educator: (16 credits)

NGR 6713	Curriculum Development in Nursing	3
NGR 6715	Instructional Technology in Nursing and Health Sciences	3
NGR 6714C	Clinical Teaching Strategies for Nursing	3
NGR 6708C	Classroom Teaching Strategies for Nursing	3
NGR 6718	Testing and Evaluation in Nursing Education	3
NGR 6710L	Clinical Specialty Practicum for the Nurse Educator	1

Or
Adult-Gerontology Primary Care Nurse Practitioner: (19 credits)

NGR 6201C	Advanced Adult-Gerontology Nursing I	3
NGR 6201L	Advanced Adult-Gerontology Nursing Practicum I	3
NGR 6202C	Advanced Adult-Gerontology Nursing II	3
NGR 6202L	Advanced Adult-Gerontology Nursing Practicum II	3
NGR 6209	Clinical Decision Making in Advanced Adult-Gerontology Nursing	3
NGR 6700L	Role Synthesis in Advanced Adult-Gerontology Nursing Practice	4

Or
Pediatric Primary Care Nurse Practitioner: (19 credits)

NGR 6301C	Advanced Child Health Nursing I	3
NGR 6301L	Advanced Child Health Nursing Practicum I	3
NGR 6302	Advanced Child Health Nursing II	3
NGR 6302L	Advanced Child Health Nursing Practicum II	3
NGR 6337	Clinical Decision Making in Advanced Child Health Nursing	3
NGR 6337L	Role Synthesis in Advanced Child Health Nursing Practice	4

Or
Psychiatric-Mental Health Nursing: (22 credits)

NGR 6503	Advanced Psychiatric-Mental Health Nursing I	3
NGR 6503L	Advanced Psychiatric-Mental Health Nursing Practice I	3
NGR 6504C	Advanced Psychiatric-Mental Health Nursing II	3
NGR 6504L	Advanced Psychiatric-Mental Health Nursing Practice II	3
NGR 6538	Psychopharmacology for Advanced Practice Nursing	3
NGR 6560	Advanced Psychiatric Mental Health Clinical Decision Making	3
NGR 6505L	Role Synthesis in Advanced Psychiatric Mental Health Nursing Practice	4

Or
Family Nurse Practitioner: (23 credits)

NGR 6601C	Advanced Family Health Nursing I	4
NGR 6601L	Advanced Family Health Nursing Practicum I	4
NGR 6602C	Advanced Family Health Nursing II	4
NGR 6602L	Advanced Family Health Nursing Practicum II	4
NGR 6748	Clinical Decision Making in Advanced Family Nursing Practice	3
NGR 6619L	Role Synthesis Advanced Family Health Nursing Practice	4

Master of Science in Nursing – Generalist Leadership Track

This track is not a direct admission program, but planned to be awarded to Doctorate in Nursing Practice – Nurse Anesthetist (DNP-NA) students as they progress through their DNP-NA program of study in recognition of meeting certain content milestones.

The Generalist Leadership track is designed to recognize RN's clinical experience and build upon prior knowledge while focusing on the core knowledge, skills, and abilities that are essential to meet the complexities of advanced health care. The generalist leadership curriculum provides a foundation for the advanced nursing practice – nurse anesthetist role. The program includes coursework in the following areas: Graduate Nursing Core, Advanced Practice Nursing (APN) Core, and Functional Role Fundamentals - Generalist Leadership.

Graduate Core – 12 credits
Theoretical Underpinning and Research Process – 6 credits

NGR 7121	Scientific and Theoretical Foundations of Adv Nursing Practice	3
NGR 5810	Research Methods	3

Applications of Research and Evidence-Based Clinical Practice – 6 credits

NGR 7854	Analytical Methods for Evidence Based Clinical Practice	3
NGR 7853	Translational Research	3

APN Core – 10 credits

NGR 6172	Pharmacological Concepts in Adv. Practice Nursing	3
NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiology for Advanced Practice Nursing	3

Functional Role - Generalist Leadership – 13 credits

Direct Care – 6 credits

NGR 5131	Culture and Advanced Practice Nursing	3
NGR 7716	Fundamentals of Clinical Education	3
NGR 6497	Advanced Anesthesia Life Support (BCLS/ACLS/PALS)	1

Professional Aspects of Practice – 7 credits

NGR 6493	Technology & Equipment in Anesthesiology Nursing	2
NGR 6492	Professional Aspects of Nurse Anesthetist Practice	2
NGR 7769	Patient Safety and Quality Improvement in Healthcare	3
NGR 7892L	Health Policy Practicum	3

Degree Requirements (MSN-Generalist Leadership)

The Master of Science – Generalist Leadership requires successful completion of 39 semester credits in the post-BSN-to-DNP Nurse Anesthetist program, as outlined in the plan of study. DNP-NA students will be expected to progress in their plan of study and demonstrate satisfactory attainment of course objectives and program competencies. All course work must be completed with a minimum grade of "B" or "Pass" for non-letter grade courses. Conferral of the MSN-Direct Care Leadership occurs en-route to DNP-Nurse Anesthetist degree. Completion of the MSN-Generalist Leadership alone DOES NOT prepare students to meet educational eligibility requirements to sit for the National Board of Certification and Recertification for Nurse Anesthetist (NBCRNA) national certification exam (NCE) nor any other Advanced Practice Registered Nurse (APRN), direct care focus Certification Board examination at the MSN level.

Ph.D. in Nursing

The Ph.D. in Nursing program is designed to prepare its graduates for leadership roles and research careers in academia, the health care industry, as well as government and private organizations focused on health care. The program purpose is to develop individuals who will be leaders in generating and applying the science needed to guide nursing practice, and who have the knowledge and skills to direct and guide application of other evidence-based health care findings to improve the health of people from diverse cultures. Students in the program will pursue individualized courses of study under the mentorship of research active faculty. A major program emphasis is the preparation of Ph.D. educated minority nursing leaders and focused research on health issues for minority and underserved populations. There are two tracks in the PhD in Nursing, MSN to PhD and BSN to PhD.

Admission Requirements MSN to PhD Track

A prospective student must meet all admission requirements stipulated in the University's Graduate Policies and Procedures. Additional requirements are as follows:

1. A master's degree in nursing from an accredited institution.
2. A master's program grade point average (GPA) of 3.3/4.0 or higher.
3. (Verbal and Quantitative) Graduate Record Examination (GRE) scores.
4. Three letters of recommendation from academic and professional references.
5. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). Minimum required scores is 550 on the paper-based TOEFL, 80 on the internet-based TOEFL (iBT) or 6.5 overall on the IELTS.
6. A statement of the applicant's goals for pursuing the PhD degree in nursing. This statement must be typed, double-spaced, in a narrative format of no more than 500 words, using Times New Roman or Arial 12 Font.
7. Current Registered Nurse (RN) licensure or RN licensure with Advanced Registered Nurse Practitioner (APRN) certification in the State of Florida if applicable. The license must remain current throughout the program. Registered Nurse (RN) licensure in Florida is waived for international students.
8. Current professional liability insurance. The graduate student must maintain liability insurance throughout the program.
9. A satisfactory interview by members of the College's Doctoral Program Admissions Committee. The Committee will examine the credentials of all applicants.

Admission Requirements BSN to Ph.D. Track

Prospective student must meet all admissions requirements stipulated in the University's Graduate Policies and Procedures. Additional requirements are as follows:

1. An overall undergraduate GPA of 3.3 on a 4.0 scale.
2. Curriculum Vitae
3. Evidence of scholarship in nursing science, for example: Term paper/special project report; research report; published article or manuscript submitted for publication
4. Demonstrated computer proficiency in word processing and electronic library searches
5. Applicants, whose native language is not English, must take the TOEFL (Test of English as a Foreign Language) and obtain a minimum of 80 on the iBT TOEFL (equivalent to 550 on the paper based version).
6. The Graduate Record Examination (GRE) is required for admissions into the Ph.D. in Nursing Program.
7. Three letters of recommendation from academic and professional references.
8. A statement of the applicant's goals for pursuing the Ph.D. degree in nursing. This statement must be typed, double-spaced, in a narrative format of no

more than 500 words, using Times New Roman or Arial 12 Font.

9. Current Registered Nurse (RN) licensure in the State of Florida. License must remain current throughout the program.
10. Current professional liability insurance. The graduate student must maintain liability insurance throughout the program.
11. A satisfactory interview by members of the College's Doctoral Program Admissions Committee. The Committee will examine the credentials of all applicants.

Application Process

Applicants must complete the following steps in order to be considered for admission:

1. Complete two on-line applications as indicated include all identified supporting documents to these.
   a. Complete a graduate admissions application online available at **https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html**
   b. Complete the FIU NWCNHS-PhD Application for Admission via NursingCAS (The Centralized Application Service for Nursing Programs) at **https://nursingcas.liaisoncas.com/applicant-ux/#/login**.
2. Request an official transcript of records from each college or university attended for undergraduate and graduate work. Transcripts must be sent to both 1) FIU, Office of Admissions, P.O. Box 659004, Miami, Florida 33265-9004 and 2) uploaded to your NursingCAS profile.
3. Submit the required documents (transcripts, GRE scores, TOEFL scores if applicable, letters of recommendation, statement of goals, RN licensure, liability insurance) for admission evaluation. The application and required documents do not have to be sent to the University Graduate Admissions Office or the College Admissions Office as one package; however, all required documents MUST be received on or before the deadline date.
4. The application file must be complete before the College's Doctoral Program Committee will consider the applicant for admission. The application and supporting documents must be received on or before June 1 for Fall admission. If the application and supporting documents are not received by the appropriate deadline, the application will be considered for admission for the following term.

General Degree Requirements

1. Achievement of an overall cumulative GPA of 3.0 or above. A cumulative GPA of less than 3.0 will place the student on probation for one semester, and she/he may be subject to dismissal if the 3.0 GPA requirement is not met after the probationary period.
2. Removal of all conditions, deficiencies, and incomplete grades. With the exception of doctoral dissertation courses, students are expected to register for courses with letter grades. Credit hours for courses in which the grade is "B-" or below will not count toward satisfying graduate degree requirements.
3. Student is expected to complete the dissertation five (5) years from the date of advancement to candidacy (i.e., successful completion of written and oral examinations, favorable recommendation of supervisory/guidance committee, and an approved dissertation proposal.
4. All requirements must be completed within nine years of first enrollment in the doctoral program.

Curriculum MSN to PhD Track: (60 Credits)

The MSN to PhD track requires completion of 60 credit hours of coursework and dissertation credits. The program can be completed in 4 years of full-time study.

The track requires completion of the following courses: A research sequence (1 course on knowledge development, 2 courses in research methods and design, 2 courses in statistics, and 2 courses on grantsmanship); research in health care for multicultural, diverse and vulnerable populations; academic, health care and political systems: function, structure, leadership and survival; accessing, managing, and packaging information; and a minimum of 2 cognate courses in a specific knowledge area.

Core Knowledge: (12)

NGR 6123	Knowledge Development in Nursing Science	3
NGR 7736	Academic, Health Care, and Political Systems: Function, Structure, Leadership, and Survival	3
NGR 7830	Research in Health Care for Multicultural, Diverse, and Vulnerable Populations	3
NGR 7873	Accessing, Managing and Packaging Information	3

Research Methods and Design: (9)

NGR 6800	Advanced Nursing Research Methods I: Design and Sampling	3
NGR 6801	Advanced Nursing Research Methods II: Measurement and Dissemination	3
NGR 6815	Qualitative Methods	3

Statistics: (6)

NGR 6851	Empirical Evidence for Clinical Research and Practice II	3
NGR 6857	Empirical Evidence for Clinical Research and Practice III	3

Grantsmanship: (6)

NGR 6917	Grantsmanship I	3
NGR 6918	Grantsmanship II	3

Cognate Electives: (6)

(Electives by advisement)

NGR 6850	Empirical Evidence for Clinical Research and Practice I	
(recommended if no Stats taken in the last 3 years)		3

Candidacy Examination (3-9)

NGR 7982	Candidacy Examination	3-9

Dissertation: (18)

NGR 7980	Dissertation I	3-18

Curriculum BSN to PhD Track (Minimum of 94 credits)

The BSN to PhD track builds on student's general nursing knowledge and skills at the baccalaureate level and provides a course of study for advanced nursing practice at the master's level. The curriculum includes master's level courses designed to prepare students for advanced practice roles and provide the foundation from which students can engage in a program of intellectual inquiry at the doctoral level. If a student in the BSN- PhD track desires specialty certification (e.g., adult nurse practitioner), all required course work and clinical practice must be completed for that clinical specialty. Students on this track will receive the MSN degree upon completion of their required courses as outlined on their individual plan of study. The program can be completed in 4 ½ - 5 years of full-time study.

The BSN- PhD in Nursing track requires a minimum of 91 credits, including 6 credits of MSN core, 9 credits of APN (Advanced Practice Nursing) core; 12-16 credits of nursing specialty; 4 credits of role development; 12 credits of core knowledge (scientific inquiry & nursing science, cultural competence in research), 6 credits of statistics, 9 credits of advanced research methods, 6 credits of grantsmanship, 6 credits of cognate electives, and a minimum of 18 credit hours of dissertation.

MSN Core: (6)

NGR 5604	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3

APN Core: (10)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiological Basis of ANP	3
NGR 6192	Pharmacological Concepts in ANP	3

Clinical Nursing Specialty/EDU/ADM: (12)

AGPCNP/PPCNP/PMHNP/ADM clinical track courses. Note: Family Nurse Practitioner (FNP) and Nurse Anesthesia tracks require greater than 12 clinical track credits to meet accreditation and certification requirements for clinical contact hours.

Role Development: (4)

NGR 6700L	Role Synthesis in Advanced Adult-Gerontology Nursing Practice	4
	or	
NGR 6337L	Role Synthesis in Advanced Child Health Nursing Practice	4
	or	
NGR 6505L	Role Synthesis in Advanced Psychiatric-Mental Health Nursing Practice	4
	or	
NGR 6619L	Role Synthesis in Advanced Family Health Nursing Practice	4

Core Knowledge: (12)

NGR 6123	Knowledge Development in Nursing Science	3
NGR 7736	Academic, Health Care, and Political Systems: Function, Structure, Leadership, and Survival	3
NGR 7830	Research in Health Care for Multicultural, Diverse, and Vulnerable Populations	3
NGR 7873	Accessing, Managing and Packaging Information	3

Statistics: (6)

NGR 6851	Empirical Evidence for Clinical Research and Practice II	3
NGR 6857	Empirical Evidence for Clinical Research and Practice III	3

Research Methods and Design: (9)

NGR 6800	Advanced Nursing Research Methods I	3
NGR 6801	Advanced Nursing Research Methods II	3
NGR 6815	Qualitative Methods	3

Grantsmanship: (6)

NGR 6917	Grantsmanship I	3
NGR 6918	Grantsmanship II	3

Cognate Electives: (6)

(Electives by advisement)

NGR 6850	Empirical Evidence for Clinical Research and Practice I (recommended if not Stats taken in the last 3 years)	3

Candidacy Examination (3-9)

NGR 7982	Candidacy Examination	3-9

Dissertation (18)

NGR 7980	Dissertation I	3-18

Examinations

A student must successfully complete the following written examination and oral defenses in partial fulfillment of requirements for the Ph.D. degree in Nursing:

1. Candidacy Examination: The purpose of the Candidacy Examination is to demonstrate the student's ability to 1) synthesize knowledge in the student's research (substantive and methods) and cognate areas; 2) visualize the long-term development of a program of research in the defined area; and 3) place the planned Dissertation research in the context of that program of research and the area of knowledge. Upon successfully passing the written and oral Candidacy Examination and completing all required coursework, the student is admitted to Dissertation Candidacy. The Candidacy Examination is held after completion of course work requirements as represented in the student's Plan of Study, and prior to the Defense of the Dissertation Proposal.
2. Dissertation Proposal Defense: The proposal defense must be completed after the student has identified the major substantive and methodological issues of the research problem and the proposal is written in excellent form. The Proposal should consist of:
   a) An introduction to research problem, with a statement of the research question or hypothesis;
   b) A review of relevant literature sufficient to provide context for the research problem as well as a review of literature focused on the specific question to be examined;
   c) A description of the research methods to be utilized in answering the research question, including a complete definition of the data to be collected and extant data bases that could be used; and
   d) A list of references.

The proposal oral defense must be successfully completed and approved by the Dissertation Committee prior to the defense of the dissertation.

3. Dissertation Defense: All Committee members must preliminarily approve the Dissertation document before the student can apply for Dissertation Defense.

By their signatures, Committee members certify that the Dissertation is ready for Defense.

The student should consult with his/her Chairperson on the format and the time parameters of the oral Defense. After the Committee determines that the Defense was successful, the student should obtain signatures of all Committee members on the required form. Students should become familiar with the Nicole Wertheim College of Nursing and Health Sciences Ph.D. in Nursing Policies and Procedures at **http://cnhs.fiu.edu/** and the University Graduate School's regulations and deadlines at **http://gradschool.fiu.edu**.

Doctor of Nursing Practice

The Doctorate of Nursing Practice (DNP) is a program of graduate doctoral study for the registered nurse with specialty preparation in advanced practice nursing. The DNP program of study includes or builds upon the clinical specialization to include study of: advanced specialty practice; systematic practice and program outcome evaluation; application of health information resources; development of safe, equitable, and cost effective health policy; innovation, implementation and evaluation of care delivery models; leadership development in health care delivery and clinical expertise for advanced nursing practice and education. The goals of the DNP program are to prepare nurses for leadership roles in a specialized area of advanced practice nursing with an emphasis on: philosophical, ethical, and scientific principles that provide the foundation for leadership in professional nursing care; continued acquisition of knowledge and clinical skills in an area of advanced practice specialization; and leadership and clinical expertise in healthcare delivery, evaluation, quality improvement and advanced practice nursing education. The DNP is offered as a MSN-to-DNP track or as a Dual Degree MSN + DNP option for adult-gerontology primary care nurse practitioner, pediatric primary care nurse practitioner, family health nurse practitioner, psychiatric-mental health nurse practitioner, and clinical specialty areas.

The DNP Scholarly Project is a program culmination evidence-based scholarly project which unfolds in a 3 - course series that provides the DNP students with mentored opportunities to identify, develop, implement, evaluate, and disseminate an independent, analytic scholarly project within the domain of advanced nursing practice. DNP students enter the DNP Scholarly Project series upon successful completion of all established DNP coursework and are required to submit a formal proposal, obtain approval by the DNP Project Team, submit and obtain approval of Institutional Review Board (IRB), implement, and evaluate their respective evidence-based scholarly project commensurate of doctoral education during this course series. A successful public presentation of scholarly project outcomes and defense is also required. Enrollment in the DNP Scholarly Project Course series, NGR 7940C (4 credits), NGR 7941C (4 credits), NGR 7942C (4 credits), NGR 7943 (1 credit) with a minimum of 1 credit, provides eligibility for DNP students to be considered "enrolled half- time equivalent" to meet financial aid qualification.

Academic Standing

Good Standing: To achieve and maintain the classification of good standing, the student must maintain a minimum G.P.A. of 3.0 in the courses required for the MSN and DNP degrees. Full-time enrollment is required in Nurse Anesthesiology Program.

Progression in the Program

The student must maintain a cumulative GPA of 3.0 in required graduate courses with a minimum of a "B" (85%) or better in all required courses.

If a student earns less than an 85 in any course, the course must be repeated and earn a grade of "85" or better. If this course is a pre-requisite to a subsequent course, the student will not be allowed to enroll in that subsequent course until satisfactory completion of the pre-requisite course is achieved but may be allowed to enroll in other courses if applicable to the program. Only one-course repeat in the program will be allowed. Therefore, a student who earns a grade below an 85 in more than one course will be dismissed from the program.

A student who fails a DNP project course (pass or fail course) will be allowed to repeat only once even if they have less than an 85 in one MSN level course.

Students may not have a cumulative GPA below 3.0 in the courses for more than two semesters. If the cumulative GPA for required coursework is below 3.0 for a third semester, the student will be dismissed from the program.

A student who fails a DNP project course (pass or fail course) will be allowed to repeat only once even if they have less than an 85 in one MSN level course.

BSN-to-DNP Anesthesiology Nursing Program are not allowed to fail clinical residency courses as a clinical failure are immediate grounds for dismissal

Graduation Requirements

To be eligible for graduation the student must:

- Meet all University Graduate School requirements for graduation.
- Satisfactorily complete all didactic and fieldwork requirements within degree program guidelines.
- Have a minimum graduate GPA of 3.0 in the degree required courses.

Admission Requirements (Post -MSN-to-DNP track)

Admission to the DNP Program is competitive and is based on evaluations of the applicant's abilities, past performance, recommendations and match of FIU's DNP Program goals with the applicant's professional practice goals. In addition to the general FIU graduate admission requirements, applicants to the DNP Program must meet the following requirements:

1. Completed Master's degree in Advanced Practice Nursing specialty role (e.g. ANP, PNP, FNP, CRNA, CNM, CNS, etc.) from an accredited institution with minimum cumulative GPA of 3.25;
   Or
   Completed Master's Degree in Nursing and a completed Post Graduate Certificate in Advanced Practice Nursing specialty role (e.g. ANP, PNP, FNP, CRNA, CNM, CNS, etc.)
2. Current licensure with no restrictions as an APRN in your state of residence;
3. Proof of Advanced Practice Specialty Certification;
4. Completion CNHS DNP Program Application;

5. Essay (500 words) addressing desired focus and areas of interest for practice in DNP program;
6. Three (3) professional recommendations describing the applicant's ability to be successful in a DNP program;
7. Curriculum Vitae;
8. Successful personal Interview with DNP admissions committee;

Degree Requirements (Post MSN-to-DNP track)

The Doctor of Nursing Practice program requires completion of a minimum of 36 credits (beyond a Master of Science in Nursing) and a DNP Scholarly Project. DNP students will be expected to progress in their plan of study and demonstrate satisfactory attainment of course objectives and terminal program competencies. All course work must be completed with a minimum grade of "B" or "Pass" for non-letter grade courses. Clinical performance in residency/preceptorship experiences must be evaluated at a satisfactory level and completed with a grade of "Pass." The DNP Scholarly Project must be approved by the DNP Scholarly Project Team. A successful public presentation and defense of the DNP Scholarly Project is also required.

Doctoral Nursing Practice Core (36 credits)

NGR 7121	Scientific and Theoretical Foundations for Advanced Nursing Practice	3
NGR 7769	Patient Safety and Quality Improvement in Healthcare	3
NGR 7891	Healthcare Finance and Economics in Advanced Clinical Practice	3
NGR 7871	Health Informatics	3
NGR 7854	Analytical Methods for Evidence-Based Clinical Practice	3
NGR 7892L	Health Policy Practicum (60 Clinical hours)	3
NGR 7733	Organizational Dynamics of Health Systems	3
NGR 7853	Translational Research	3
NGR 7940C	DNP Project I	4
NGR 7941C	DNP Project II	4
NGR 7942C	DNP Project III	4

Admission Requirements (BSN-to-DNP Nurse Anesthetist)

Admission to the **BSN-to-DNP Nurse Anesthetist** is competitive and is based on evaluations of the applicant's abilities, past performance, recommendations and match of FIU's DNP program goals with the applicant's professional practice goals. In addition to the general FIU graduate admission requirements, applicants to the DNP-NA Program must meet the following requirements:

1. Successful completion of all the admission requirements for graduate education at Florida International University, the Nicole Wertheim College of Nursing and Health Sciences, and the Department of Nurse Anesthetist Practice (DNP-NA).
2. Baccalaureate degree in Nursing (BSN) from a National League for Nursing Accrediting Commission (NLNAC) or the Commission on Collegiate Nursing Education (CCNE) accredited nursing program and from an accredited institution.
3. Cumulative undergraduate GPA of 3.0 or greater in a 4.0 scale and a minimum GPA of 3.0 for upper division coursework (UG 60).
4. Official GRE scores (Verbal, Quantitative, and Analytical); NOTE: There is no minimum GRE score recommended for this program.
5. Current State of Florida RN license. Out of state students must obtain a license to practice in Florida prior to admission.
6. Completion NWCHNS DNP-NA Program Application.
7. Essay (500 words)
8. Three professional recommendations.
9. Curriculum Vitae.
10. Successful personal interview with DNP-NA admissions committee.

Degree Requirements (BSN-to-DNP Nurse Anesthetist)

The Doctorate of Nursing Practice – Nurse Anesthetist requires the completion of all required courses and clinical experience requirements and a Quality Improvement Project. DNP-NA students will be expected to progress in their plan of study and demonstrate satisfactory attainment of course objectives and terminal program competencies. All course work must be completed with a minimum grade of "B" or "Pass" for non-letter grade courses. Clinical performance in residency must be evaluated at a satisfactory level and completed with a minimum letter grade of "B." The Quality Improvement Project must be approved by the DNP Project Committee. A successful public presentation and defense of the DNP Project is also required.

Doctoral Nursing Practice Core (37 credits)

NGR 7121	Scientific and Theoretical Foundations for Advanced Nursing Practice	3
NGR 7769	Patient Safety and Quality Improvement in Healthcare	3
NGR 7891	Healthcare Finance and Economics in Advanced Clinical Practice	3
NGR 7871	Health Informatics	3
NGR 7854	Analytical Methods for Evidence-Based Clinical Practice	3
NGR 7892L	Health Policy Practicum (60 Clinical hours)	3
NGR 7733	Organizational Dynamics of Health Systems	3
NGR 7853	Translational Research	3
NGR 7940C	DNP Project I	4
NGR 7941C	DNP Project II	4
NGR 7942C	DNP Project III	4
NGR 7943C	DNP Project IV	1

Advanced Practice Nursing Core: (16 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice	3
NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3

Nurse Anesthetist: (57 credits)

NGR 6421	Principles of Anesthesiology Nursing I	3
NGR 6407	Technology & Physics in Anesthesiology Nursing I	3
NGR 6462	Pharmacology and Chemistry of Anesthesiology Nursing I	3

NGR 6431L	Anesthesiology Nursing Clinical Residency I	1
NGR 6422	Principles of Anesthesiology Nursing II	3
NGR 6494	Anesthesia for Special Populations I	3
NGR 6463	Pharmacology and Chemistry of Anesthesiology Nursing II	3
NGR 6490	Regional Anesthesia and Pain Management	2
NGR 6432L	Anesthesiology Nursing Clinical Residency II	2
NGR 6423	Principles of Anesthesiology Nursing III	2
NGR 6433L	Anesthesiology Nursing Clinical Residency III	2
NGR 6425	Advanced Principles of Anesthesiology Nursing I	2
NGR 6495	Anesthesia for Special Populations II	3
NGR 6434L	Anesthesiology Nursing Clinical Residency IV	3
NGR 6435L	Anesthesiology Nursing Clinical Residency V	3
NGR 6436L	Anesthesiology Nursing Clinical Residency VI	3
NGR 6437L	Anesthesiology Nursing Clinical Residency VII	3
NGR 6492	Professional Aspects of Anesthesiology Nursing I	2
NGR 6491	Advanced Anesthesiology Nursing Seminar	4
NGR 6941L	Anesthesiology Nursing Simulation Practicum I	1
NGR 6441L	Anesthesiology Nursing Simulation Practicum II	1
NGR 6442L	Anesthesiology Nursing Simulation Practicum III	1
NGR 6426	Advanced Principles of Anesthesiology Nursing II	2
NGR 7716	Fundamentals of Clinical Education	2

NOTE: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's and College's various publics and to respond to the mandates of the Florida Department of Education, Board of Governors, the Legislature, and other regulatory and accrediting agencies. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations. Please refer to the College's website for updated information in nursing.

The Florida Board of Nursing and clinical agencies require the disclosure of conviction records for misdemeanors and/or felonies; therefore, this information will be required at the time of application. Applicants are required to submit to criminal background checks and drug testing. Expenses associated with background checks and drug testing (including repeat testing) are the responsibility of the student. Findings may affect a student's ability to participate in clinical experiences and complete the program, and/or obtain advanced licensure/ certification.

Post-BSN-to-DNP (Adult-Gerontology Primary Care Nurse Practitioner-MSN/DNP)

The Post-BSN-to-DNP is a program of graduate doctoral study for registered nurses. The Post-BSN-to-DNP program of study builds upon the initial clinical training of entry level nurses prepared at the baccalaureate level. This program will include the study of: advanced specialty practice; systematic practice and program outcome evaluation; application of health information resources; development of safe, equitable, and cost effective health policy; innovation, implementation and evaluation of care delivery models; leadership development in healthcare delivery and clinical expertise for advanced nursing practice education. Graduates of this program will be eligibility for certification as an Adult-Gerontology Primary Care Nurse Practitioner. The goals of the Post-BSN-to-DNP program are to prepare nurses for leadership roles in a specialized area of advanced nursing practice with an emphasis on: philosophical, ethical, and scientific principles that provide the foundation for leadership in professional nursing care; continued acquisition of knowledge and clinical skills in an area of advanced practice specialization; and leadership and clinical expertise in healthcare delivery, evaluation, quality improvement and advanced practice nursing education.

Admission Requirements

1. Successful completion of all the admission requirements for graduate education at Florida International University and the Nicole Wertheim College of Nursing and Health Sciences.
2. Cumulative undergraduate GPA of 3.0 or greater on a 4.0 scale (CUM GPA is a calculation inclusive of all academic coursework including courses at the community college level.)
3. UG 60 GPA of 3.0 or greater in Bachelor of Nursing upper division coursework.
4. Current State of Florida RN license. Out-of-state students must obtain a license to practice in Florida prior to admission.
5. Baccalaureate degree in Nursing (BSN) from a program accredited by the Commission on Collegiate Nursing Education (CCNE) or by the Accreditation Commission for Education in Nursing (ACEN) formerly known as the National League for Nursing Accrediting Commission (NLNAC). Applicants from Programs without such accreditation will be considered on an individual basis.
6. Completion of all admission paperwork including the NursingCAS application, a written essay, Recommendations, and Curriculum Vitae
7. Essay (500 words) addressing desired focus and areas of interest for practice in The Post-BSN-to-DNP program.
8. Three (3) professional recommendations describing ability to be successful in a MSN-DNP program.
9. Curriculum Vitae.
10. Successful personal Interview with The Post-BSN-to-DNP admissions committee.

In order to advance to the DNP Scholarly Project course series component of this track, students must meet the following requirements upon conferral of MSN degree:

1. Maintain good academic standing as defined in the FIU Student Handbook
2. Current licensure with no restrictions as an APRN in your state of residence;

3. Proof of Advanced Practice Specialty National Board Certification in the specialty of conferred MSN (i.e., AGNP, FNP, PNP, PMHNP)

Curriculum

Doctor of Nursing Practice Core (36 credits)

NGR 7121	Scientific and Theoretical Foundations for Advanced Nursing Practice	3
NGR 7769	Patient Safety and Quality Improvement in Healthcare	3
NGR 7891	Healthcare Finance and Economics in Advanced Clinical Practice	3
NGR 7871	Healthcare Informatics	3
NGR 7854	Analytical Methods for Evidence-Based Clinical Practice	3
NGR 7892L	Health Policy Practicum	3
NGR 7733	Organizational Dynamics of Health Systems	3
NGR 7853	Translational Research	3
NGR 7940C	DNP Project I	4
NGR 7941C	DNP Project II	4
NGR 7942C	DNP Project III	4

Advanced Practice Nursing Core (14 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice	3
NGR 5064C	Diagnostic and Therapeutics in Advanced Nursing Practice	3
NGR 6743	Advanced Practice Nursing Clinical Education Seminar	1

Graduate Nursing Core (8 credits)

NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3
NGR 6703	Role Development of the Advanced Practice Nurse	2

Adult-Gerontology Primary Care Nurse Practitioner (19 credits)

NGR 6201C	Advanced Adult-Gerontology Nursing I	3
NGR 6201L	Advanced Adult-Gerontology Nursing Practice I	3
NGR 6202C	Advanced Adult-Gerontology Nursing II	3
NGR 6202L	Advanced Adult-Gerontology Nursing Practice II	3
NGR 6209	Clinical Decision Making in Advanced Adult-Gerontology Nursing	3
NGR 6700L	Role Synthesis in Advanced Adult-Gerontology Nursing Practice	4

Post- BSN- to – DNP (Adult-Gerontology Primary Care Nurse Practitioner- MSN/DNP) Requirements

1. Successful completion of 59 semester credits in post-BSN-to-DNP program required courses and all specialty clinical experience requirements; as well as satisfactory attainment of terminal program competencies (exit examination) prior to conferral of MSN degree.
2. Successful completion of all DNP required core courses (36 credits), including DNP Project public presentation and defense are required for conferral of DNP degree.
3. Achievement of an overall cumulative GPA of 3.0 or above. See Graduate Catalog in University Graduate School Rules and Regulations for information on Academic Warning, Probation, and Dismissal.
4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "B- or below will not count toward satisfying graduate degree requirements.
5. With the exception of DNP Project courses, students are expected to register for courses with letter grades.

Post-BSN-to-DNP (Pediatric Primary Care Nurse Practitioner-MSN/DNP)

The Post-BSN-to-DNP is a program of graduate doctoral study for registered nurses. The Post-BSN-to-DNP program of study builds upon the initial clinical training of entry level nurses prepared at the baccalaureate level. This program will include the study of: advanced specialty practice; systematic practice and program outcome evaluation; application of health information resources; development of safe, equitable, and cost effective health policy; innovation, implementation and evaluation of care delivery models; leadership development in healthcare delivery and clinical expertise for advanced nursing practice education. Graduates of this program will be eligibility for certification as a Pediatric Primary Care Nurse Practitioner. The goals of Post-BSN-to-DNP program are to prepare nurses for leadership roles in a specialized area of advanced nursing practice with an emphasis on: philosophical, ethical, and scientific principles that provide the foundation for leadership in professional nursing care; continued acquisition of knowledge and clinical skills in an area of advanced practice specialization; and leadership and clinical expertise in healthcare delivery, evaluation, quality improvement and advanced practice nursing education.

Admission Requirements

1. Successful completion of all the admission requirements for graduate education at Florida International University and the Nicole Wertheim College of Nursing and Health Sciences.
2. Cumulative undergraduate GPA of 3.0 or greater on a 4.0 scale (CUM GPA is a calculation inclusive of all academic coursework including courses at the community college level).
3. UG 60 GPA of 3.0 or greater in Bachelor of Nursing upper division coursework.
4. Current State of Florida RN license. Out-of-state students must obtain a license to practice in Florida prior to admission.
5. Baccalaureate degree in Nursing (BSN) from a program accredited by the Commission on Collegiate Nursing Education (CCNE) or by the Accreditation Commission for Education in Nursing (ACEN) formerly known as the National League for Nursing Accrediting Commission (NLNAC). Applicants from Programs without such accreditation will be considered on an individual basis.
6. Completion of all admission paperwork including the NursingCAS application, a written essay, Recommendations, and Curriculum Vitae
7. Essay (500 words) addressing desired focus and areas of interest for practice in Post-BSN-to-DNP program.

8. Three (3) professional recommendations describing ability to be successful in a MSN-DNP program.
9. Curriculum Vitae.
10. Successful personal Interview with Post-BSN-to-DNP admissions committee.

In order to advance to the DNP Scholarly Project course series component of this track, students must meet the following requirements upon conferral of MSN degree:

1. Maintain good academic standing as defined in the FIU Student Handbook
2. Current licensure with no restrictions as an APRN in your state of residence;
3. Proof of Advanced Practice Specialty National Board Certification in the specialty of conferred MSN (i.e., AGNP, FNP, PNP, PMHNP)

Curriculum

Doctor of Nursing Practice Core (36 credits)

NGR 7121	Scientific and Theoretical Foundations for Advanced Nursing Practice	3
NGR 7769	Patient Safety and Quality Improvement in Healthcare	3
NGR 7891	Healthcare Finance and Economics in Advanced Clinical Practice	3
NGR 7871	Healthcare Informatics	3
NGR 7854	Analytical Methods for Evidence-Based Clinical Practice	3
NGR 7892L	Health Policy Practicum	3
NGR 7733	Organizational Dynamics of Health Systems	3
NGR 7853	Translational Research	3
NGR 7940C	DNP Project I	4
NGR 7941C	DNP Project II	4
NGR 7942C	DNP Project III	4

Advanced Practice Nursing Core (14 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice	3
NGR 5064C	Diagnostic and Therapeutics in Advanced Nursing Practice	3
NGR 6743	Advanced Practice Nursing Clinical Education Seminar	1

Graduate Nursing Core (8 credits)

NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3
NGR 6703	Role Development of the Advanced Practiced Nurse	2

Pediatric Primary Care Nurse Practitioner (19 credits)

NGR 6301C	Advanced Child Health Nursing I	3
NGR 6301L	Advanced Child Health Nursing Practice I	3
NGR 6302C	Advanced Child Health Nursing II	3
NGR 6302L	Advanced Child Health Nursing Practice II	3
NGR 6337L	Role Synthesis in Advanced Child Health Nursing Practice	4
NGR 6337	Clinical Decision Making in Advanced Child Health Nursing	3

Post-BSN-to-DNP (Pediatric Primary Care Nurse Practitioner-MSN/DNP) Requirements

1. Successful completion of 59 semester credits in post-BSN-to-DNP program required courses and all specialty clinical experience requirements; as well as satisfactory attainment of terminal program competencies (exit examination) prior to conferral of MSN degree.
2. Successful completion of all DNP required core courses (36 credits), including DNP Project public presentation and defense are required for conferral of DNP degree.
3. Achievement of an overall cumulative GPA of 3.0 or above. See Graduate Catalog in University Graduate School Rules and Regulations for information on Academic Warning, Probation, and Dismissal.
4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "B- or below will not count toward satisfying graduate degree requirements.
5. With the exception of DNP Project courses, students are expected to register for courses with letter grades.

Post-BSN-to-DNP (Family Nurse Practitioner- MSN/DNP)

The Post-BSN-to-DNP is a program of graduate doctoral study for registered nurses. The Post-BSN-to-DNP program of study builds upon the initial clinical training of entry level nurses prepared at the baccalaureate level. This program will include the study of: advanced specialty practice; systematic practice and program outcome evaluation; application of health information resources; development of safe, equitable, and cost effective health policy; innovation, implementation and evaluation of care delivery models; leadership development in healthcare delivery and clinical expertise for advanced nursing practice education. Graduates of this program will be eligibility for certification as a Family Nurse Practitioner. The goals of the Post-BSN-to-DNP program are to prepare nurses for leadership roles in a specialized area of advanced nursing practice with an emphasis on: philosophical, ethical, and scientific principles that provide the foundation for leadership in professional nursing care; continued acquisition of knowledge and clinical skills in an area of advanced practice specialization; and leadership and clinical expertise in healthcare delivery, evaluation, quality improvement and advanced practice nursing education.

Admission Requirements

1. Successful completion of all the admission requirements for graduate education at Florida International University and the Nicole Wertheim College of Nursing and Health Sciences.
2. Cumulative undergraduate GPA of 3.0 or greater on a 4.0 scale (CUM GPA is a calculation inclusive of all academic coursework including courses at the community college level.)
3. UG 60 GPA of 3.0 or greater in Bachelor of Nursing upper division coursework.
4. Current State of Florida RN license. Out-of-state students must obtain a license to practice in Florida prior to admission.
5. Baccalaureate degree in Nursing (BSN) from a program accredited by the Commission on Collegiate Nursing Education (CCNE) or by the Accreditation

Commission for Education in Nursing (ACEN) formerly known as the National League for Nursing Accrediting Commission (NLNAC). Applicants from Programs without such accreditation will be considered on an individual basis.
6. Completion of all admission paperwork including the NursingCAS application, a written essay, Recommendations, and Curriculum Vitae
7. Essay (500 words) addressing desired focus and areas of interest for practice in Post-BSN-to-DNP program.
8. Three (3) professional recommendations describing ability to be successful in a MSN-DNP program.
9. Curriculum Vitae.
10. Successful personal Interview with Post-BSN-to-DNP admissions committee.

In order to advance to the DNP Scholarly Project course series component of this track, students must meet the following requirements upon conferral of MSN degree:
1. Maintain good academic standing as defined in the FIU Student Handbook
2. Current licensure with no restrictions as an APRN in your state of residence;
3. Proof of Advanced Practice Specialty National Board certification in the specialty of conferred MSN (i.e., AGNP, FNP, PNP, PMHNP)

Curriculum

Doctor of Nursing Practice Core(36 credits)

NGR 7121	Scientific and Theoretical Foundations for Advanced Nursing Practice	3
NGR 7769	Patient Safety and Quality Improvement in Healthcare	3
NGR 7891	Healthcare Finance and Economics in Advanced Clinical Practice	3
NGR 7871	Healthcare Informatics	3
NGR 7854	Analytical Methods for Evidence-Based Clinical Practice	3
NGR 7892L	Health Policy Practicum	3
NGR 7733	Organizational Dynamics of Health Systems	3
NGR 7853	Translational Research	3
NGR 7940C	DNP Project I	4
NGR 7941C	DNP Project II	4
NGR 7942C	DNP Project III	4

Advanced Practice Nursing Core (14 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice	3
NGR 5064C	Diagnostic and Therapeutics in Advanced Nursing Practice	3
NGR 6743	Advanced Practice Nursing Clinical Education Seminar	1

Graduate Nursing Core (8 credits)

NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3
NGR 6703	Role Development of the Advanced Practice Nurse	2

Family Nurse Practitioner (23 credits)

NGR 6601C	Advanced Family Health Nursing I	4
NGR 6601L	Advanced Family Health Nursing Practice I	4
NGR 6602C	Advanced Family Health Nursing II	4
NGR 6602L	Advanced Family Health Nursing Practice II	4
NGR 6619L	Role Synthesis in Advanced Family Health Nursing Practice	4
NGR 6748	Clinical Decision Making in Advanced Family Nursing Practice	3

Post-BSN-to-DNP (Family Nurse Practitioner- MSN/DNP) Requirements

1. Successful completion of 63 semester credits in post-BSN-to-DNP program required courses and all specialty clinical experience requirements; as well as satisfactory attainment of terminal program competencies (exit examination) prior to conferral of MSN degree.
2. Successful completion of all DNP required core courses (36 credits), including DNP Project public presentation and defense are required for conferral of DNP degree.
3. Achievement of an overall cumulative GPA of 3.0 or above. See Graduate Catalog in University Graduate School Rules and Regulations for information on Academic Warning, Probation, and Dismissal.
4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "B- or below will not count toward satisfying graduate degree requirements.
5. With the exception of DNP Project courses, students are expected to register for courses with letter grades.

Post-BSN-to-DNP (Psychiatric-Mental Health Nurse Practitioner-MSN/DNP)

The Post-BSN-to-DNP is a program of graduate doctoral study for registered nurses. The Post-BSN-to-DNP program of study builds upon the initial clinical training of entry level nurses prepared at the baccalaureate level. This program will include the study of: advanced specialty practice; systematic practice and program outcome evaluation; application of health information resources; development of safe, equitable, and cost effective health policy; innovation, implementation and evaluation of care delivery models; leadership development in healthcare delivery and clinical expertise for advanced nursing practice education. Graduates of this program will be eligibility for certification as a Psychiatric-Mental Health Nurse Practitioner. The goals of the Post-BSN-to-DNP program are to prepare nurses for leadership roles in a specialized area of advanced nursing practice with an emphasis on: philosophical, ethical, and scientific principles that provide the foundation for leadership in professional nursing care; continued acquisition of knowledge and clinical skills in an area of advanced practice specialization; and leadership and clinical expertise in healthcare delivery, evaluation, quality improvement and advanced practice nursing education.

Admission Requirements

1. Successful completion of all the admission requirements for graduate education at Florida International University and the Nicole Wertheim College of Nursing and Health Sciences.

2. Cumulative undergraduate GPA of 3.0 or greater on a 4.0 scale (CUM GPA is a calculation inclusive of all academic coursework including courses at the community college level.)
3. UG 60 GPA of 3.0 or greater in Bachelor of Nursing upper division coursework.
4. Current State of Florida RN license. Out-of-state students must obtain a license to practice in Florida prior to admission.
5. Baccalaureate degree in Nursing (BSN) from a program accredited by the Commission on Collegiate Nursing Education (CCNE) or by the Accreditation Commission for Education in Nursing (ACEN) formerly known as the National League for Nursing Accrediting Commission (NLNAC). Applicants from Programs without such accreditation will be considered on an individual basis.
6. Completion of all admission paperwork including the NursingCAS application, a written essay, Recommendations, and Curriculum Vitae
7. Essay (500 words) addressing desired focus and areas of interest for practice in The Post-BSN-to-DNP program.
8. Three (3) professional recommendations describing ability to be successful in a MSN-DNP program.
9. Curriculum Vitae.
10. Successful personal Interview with The Post-BSN-to-DNP admissions committee.

In order to advance to the DNP Scholarly Project course series component of this track, students must meet the following requirements upon conferral of MSN degree:

1. Maintain good academic standing as defined in the FIU Student Handbook
2. Current licensure with no restrictions as an APRN in your state of residence;
3. Proof of Advanced Practice Specialty National Board Certification in the specialty of conferred MSN (i.e., AGNP, FNP, PNP, PMHNP)

Curriculum

Doctor of Nursing Practice Core (36 credits)

NGR 7121	Scientific and Theoretical Foundations for Advanced Nursing Practice	3
NGR 7769	Patient Safety and Quality Improvement in Healthcare	3
NGR 7891	Healthcare Finance and Economics in Advanced Clinical Practice	3
NGR 7871	Healthcare Informatics	3
NGR 7854	Analytical Methods for Evidence-Based Clinical Practice	3
NGR 7892L	Health Policy Practicum	3
NGR 7733	Organizational Dynamics of Health Systems	3
NGR 7853	Translational Research	3
NGR 7940C	DNP Project I	4
NGR 7941C	DNP Project II	4
NGR 7942C	DNP Project III	4

Advanced Practice Nursing Core (14 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice	3
NGR 6172	Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice	3
NGR 6538	Psychopharmacology for Advanced Practice Nursing	3
NGR 6743	Advanced Practice Nursing Clinical Education Seminar	1

Graduate Nursing Core (8 credits)

NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5810	Research Methods in Nursing	3
NGR 6703	Role Development of the Advanced Practice Nurse	2

Psychiatric-Mental Health Nurse Practitioner (19credits)

NGR 6503	Advanced Psychiatric-Mental Health Nursing I	3
NGR 6503L	Advanced Psychiatric-Mental Health Nursing Practice I	3
NGR 6504C	Advanced Psychiatric-Mental Health Nursing II	3
NGR 6504L	Advanced Psychiatric-Mental Health Nursing Practice II	3
NGR 6505L	Role Synthesis in Advanced Psychiatric-Mental Health Nursing Practice	4
NGR 6560	Advanced Psychiatric Mental Health Clinical Decision Making	3

Post-BSN-to-DNP (Psychiatric-Mental Health Nurse Practitioner-MSN/DNP) Requirements

1. Successful completion of 59 semester credits in post-BSN-to-DNP program required courses and all specialty clinical experience requirements; as well as satisfactory attainment of terminal program competencies (exit examination) prior to conferral of MSN degree.
2. Successful completion of all DNP required core courses (36 credits), including DNP Project public presentation and defense are required for conferral of DNP degree.
3. Achievement of an overall cumulative GPA of 3.0 or above. See Graduate Catalog in University Graduate School Rules and Regulations for information on Academic Warning, Probation, and Dismissal.
4. Removal of all conditions, deficiencies, and incomplete grades. Credit hours for courses in which the grade is "B- or below will not count toward satisfying graduate degree requirements.
5. With the exception of DNP Project courses, students are expected to register for courses with letter grades.

Occupational Therapy

Lynne Richard, Ph.D., OT/L, *Chair and Clinical Associate Professor*
Alma Abdel-Moty, Dr. OT, MS, OTR/L, *Academic Fieldwork Coordinator and Clinical Professor*
Tana Carson, Ph.D., MOT, OTR/L, *Assistant Professor*
Hector Huerta, OTD, MS, OTR/L, *Clinical Assistant Professor*
Rebecca Mojica, OTD, MS, OTR/L, *Clinical Assistant Professor*
Amy Paul-Ward, Ph.D, *Associate Professor*
Ana Rodriguez, OTD, MS, OTR/L, *Clinical Assistant Professor*
Ingris Treminio, OTD, OTR/L, *Clinical Assistant Professor*

Master of Science in Occupational Therapy

Mission

The mission of Florida International University's Occupational Therapy Department is to establish excellence in occupational therapy education, research and scholarly activities as well as to prepare culturally knowledgeable entry level practitioners who will provide evidence-based occupational therapy services to a locally and globally diverse community. The Department's mission reflects the College's mission: to teach, conduct research, and serve the community. The College prepares diverse health care professionals as providers and leaders in the delivery of high quality, accessible, culturally responsive care within a highly technological and global environment. The College promotes, expands, and validates scientific knowledge and evidence-based practice through interdisciplinary research. The Department's mission is in concert with the University's mission: to meet the educational and support needs of a diverse student population and provide opportunities for minority and non-traditional students.

Vision

The vision of the Occupational Therapy Department is to be locally and globally recognized for quality occupational therapy education, community engagement, research, and scholarly activity.

About The Profession

Occupational Therapy (OT) is a health profession which prepares practitioners to help people across the lifespan to participate in the things they want and need to do through the therapeutic use of everyday activities (American Occupational Therapy Association).

Occupational therapists assess individuals' abilities to carry out tasks and activities necessary to enable function for productive living. Working collaboratively with clients, considering their personal goals, lifestyles, and environments, the therapists develop intervention programs designed to help develop/restore the greatest possible functional capacity. During the treatment or rehabilitation process, the clients actively engage in directed programs of purposeful, meaningful activities designed to increase their levels of functioning. Occupational therapists work collaboratively with individuals, families, other health professionals, and health and community agency personnel. A successful therapist must be able to work with others, look at the totality of human performance, think creatively, problem solve, and direct the actions of others. Occupational therapists serve a wide variety of individuals in all age ranges and work in settings such as community agencies, sheltered workshops, hospitals, schools, skilled nursing facilities, rehabilitation centers, and home health. There is an increasing demand for occupational therapists and excellent opportunities exist for career advancement. Additional information regarding careers in occupational therapy can be found at the American Occupational Therapy Association Inc. at 6116 Executive Boulevard, Suite 200, North Bethesda, MD 20852-4929, at **www.aota.org**, or by calling (301) 652-6611 or (800) 377-8555 (TDD - Telecommunication Device for the Deaf).

The OT program is a seven semester, 80 credit, and full-time program leading to a Master of Science in Occupational Therapy degree.

Program Accreditation

The Occupational Therapy Professional MS Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) located at 6116 Executive Boulevard, Suite 200, North Bethesda, MD 20852-4929. ACOTE's telephone number C/O AOTA is (301) 652-6611, **www.acoteonline.org**.

Certification and Licensure

The entry-level Professional Master of Science in Occupational Therapy program is accredited by ACOTE. Graduates of the program are eligible to sit for the national certification examination for occupational therapists administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR).

Most states require licensure to practice; eligibility for a licensure is usually based on successful graduation from an accredited OT program and passing the NBCOT Certification Exam. A felony conviction may affect a graduate's ability to sit for the NBCOT Certification Examination or attain state licensure. Students should be aware that it is difficult (or impossible) to obtain a license if they have ever been convicted, plead guilty or nolo contendere to a felony violation.

Background Checks and Drug Screenings

All admitted and incoming students, as part of the admission process, must comply with the Nicole Wertheim College of Nursing and Health Sciences [NWCNHS] policy for health and immunization screening and background check.

The health and immunization screening includes the following requirements:

- Immunization and /or titers of:
  - Varicella, Rubeola and Rubella, Mumps or MMR vaccine
  - Tetanus Toxoid booster; diphtheria; pertussis, or ADACEL vaccine
  - Hepatitis B Vaccine (3 doses)
  - PPD- 2 step-if 1st time taker
- Medical history and Physical Exam
- CPR/BLS – for health care providers from AHA

- Proof of major medical health insurance coverage
- 7 year employment verification
- Pass a drug screening

Florida International University- NWCNHS utilizes Complio as the background clearing house, and for tracking student immunization records.

The background check includes social security number search (residency history, state and year SSN issued), criminal search (7 years), sex offender search, federal criminal search, and healthcare exclusion list.

Advising

Group information sessions for interested applicants are held on a regular basis during the semester; the dates are posted on the department website, **https://cnhs.fiu.edu/academics/occupational-therapy/index.html**. If you have specific questions related to your application, the OT advisor will answer them during the session. All applicants are expected to attend an information session. Students can also call the OT department at (305) 348-6068 or (305) 348-2922 and ask to speak with an advisor.

NOTE: The programs, policies, requirements, and regulations listed in this catalog are continually reviewed in order to serve the needs of the University's and College's various policies and to respond to the mandates of the Florida Department of Education, Board of Governors, the Legislature, and other regulatory and accrediting agencies. Changes may be made without advance notice. Please refer to the General Information section for the University's policies, requirements, and regulations. Please refer to **https://cnhs.fiu.edu/academics/occupational-therapy/index.html** for latest information on the OT program, policies, and procedures.

The Professional Master of Science

The Professional Master of Science in Occupational Therapy program is designed for students who hold a baccalaureate degree from an accredited college or university. Through a combination of academic and fieldwork education the MSOT program of study prepares students for entry-level practice as a generalist practitioner.

Application Process and Deadlines

The application and admission process is composed of three parts:

1. The OT program uses the Occupational Therapy Centralized Application Service (OTCAS) for application to our program. An applicant must create an OTCAS account at: **https://portal.otcas.org/**. All application materials are completed through the OTCAS system. All official transcripts should be sent directly to OTCAS to verify your academic records. All application materials must be received by the application deadline in order to be considered. Our website: **https://cnhs.fiu.edu/academics/occupational-therapy/index.html** provides full details and application the deadline date.
2. Applicants are required to submit an Admissions application fee. The FIU Admissions Office will contact applicants via email with instructions regarding payment after the OTCAS application is complete
3. official transcripts must be sent to the FIU Admission's Office if you are admitted to the OT program. For more information: **https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html.**

Admission Requirements

Admission to the Professional Master of Science in Occupational Therapy is highly competitive and admits students for the **fall semester of each academic year**. The department selects students based on their record of academic excellence, outstanding personal qualities and achievements.

To be considered for admission to the Professional Master's degree program students must:

1. Hold a bachelor's degree from a regionally accredited college or university.
2. Have a minimum of 3.0 GPA average based on a 4.0 scale in upper division courses of the bachelor's degree.
3. Complete the following prerequisite courses prior to the start of the fall admission term with a minimum grade of "C": a). Abnormal Psychology; b) Human Growth & Development; c) Biology with Lab; d) Statistics; and e) Medical Terminology. Required cumulative GPA for all prerequisite courses is 3.0 on a 4.0 scale.
4. A grade of "B" or above must be earned in the following 4 courses: a) Anatomy and Anatomy Lab; b) Kinesiology; c) Physiology; and d) Neuroscience. Applicants with 3 of the 4 courses complete by the application deadline will be given priority for review and potential admission.
5. Complete the OTCAS application. Provide 3 letters of reference, a personal essay of professional and educational goals, work experience, activities, accomplishments and recognitions. These documents are submitted directly with your application. Admission is competitive and meeting the minimum requirements for admission does not guarantee admission into the program.
6. Meet admissions requirements of the OT department, FIU's Admission Office and pay the FIU Admissions Office application fee.
7. International students must have a bachelor's degree equivalent of a US baccalaureate degree from an institution recognized in their own country as preparing students for graduate level study. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). Minimum required scores is 550 on the paper-based TOEFL, 80 on the internet-based TOEFL (iBT) or 6.5 overall on the IELTS.
8. A departmental interview may be required.

Prerequisites for the Professional MS degree

1. Biology and lab 4
2. Human Physiology (3 credits) or Anatomy/Physiology I and II with labs *(students who have completed Anatomy/Physiology I and II with labs have met the prerequisites for Anatomy and Physiology)* 6-8
3. Abnormal Psychology 3

4. Human Growth and Development	3
5. Statistics	3
6. Human Anatomy with lab[1]	4
7. Kinesiology	3
8. Medical Terminology	1-3
9. Neuroscience[1]	3

[1]This course must be numbered 3000 or above.

Required Courses for Professional Master in OT: (80 credits)

Professional Master's Course Sequence*

OTH 5011	Foundations of O.T. Practice	3
OTH 5162	Therapeutic Approaches in Occupational Therapy	2
OTH 5162L	Therapeutic Approaches in Occupational Therapy - Lab	1
OTH 5202	Occupational Development: Infancy Throughout Adolescence	3
OTH 5202L	Occupational Development: Infancy Through Adolescence Lab	1
OTH 5760	Current Research in Occupational Therapy	3
OTH 5224	Conditions Affecting Occupational Performance	3
OTH 5203	Occupational Development: Adulthood and Aging	3
OTH 5414	Analysis & Adaptation Human Motion	3
OTH 5414L	Analysis & Adaptation Human Motion Lab	1
OTH 6195	Assistive Technology and the Environment	2
OTH 6195L	Assistive Technology and the Environment Lab	1
OTH 6772	Evidence Based Practice and Critical Appraisal	3
OTH 5921L	Integrative Seminar I	2
OTH 5430	Biomechanical and Rehabilitative Approaches in Occupational Therapy I	2
OTH 5430L	Biomechanical and Rehabilitative Approaches in Occupational Therapy I - Lab	1
OTH 5217	Occupational Engagement Throughout the Continuum of Care	2
OTH 5217L	Occupational Engagement Throughout the Continuum of Care Lab	1
OTH 5301	Adaptation of Human Occupation and Environment for Psychosocial Practice I	2
OTH 5301L	Adaptation of Human Occupation and Environment for Psychosocial Practice I Lab	1
OTH 5524	Occupation-based Intervention for Pediatric Populations	3
OTH 5524L	Occupation-based Intervention for Pediatric Populations Lab	1
OTH 6972	Master's Project	3
OTH 6431	Biomechanical and Rehabilitative Approaches in Occupational Therapy II	2
OTH 6431L	Biomechanical and Rehabilitative Approaches in Occupational Therapy II Lab	1
OTH 5438	Adult Neurorehabilitative Approaches in Occupational Therapy	3
OTH 5438L	Adult Neurorehabilitative Approaches in Occupational Therapy - Lab	1
OTH 5843C	Adaptation of Human Occupation and Environment for Psychosocial Practice II	3
OTH 5725	Management and Community Based Practice in Occupational Therapy	3
OTH 6973	Master's Project	3
OTH 5922L	Integrative Seminar II	2
OT Elective		3
OTH 5845	Level II Fieldwork I	6
OTH 5846	Level II Fieldwork II	6

**Some courses may be offered Online; Curriculum and sequence may be changed by department*

Academic Standing

Good Standing: To achieve and maintain a classification of good standing, the student must maintain a minimum G.P.A. of 3.0 in the courses required for the OT degree. The OT Program consists of 80 graduate credits. Full time enrollment is required. Students will complete seven semesters in the program.

Progression in the OT MS Program

The student must maintain a cumulative GPA of 3.0 in required OT graduate courses with a minimum of a "C+" (77%) or better in all required OT courses including OT electives.

If a student earns less than a C+ in any course, the course must be repeated and earn a grade of "B" or better. If this course is a pre requisite for another course, the student will not be allowed to continue enrollment. Only one course repeat in the program will be allowed. Therefore, a student who earns a grade below a C+ in more than one course will be dismissed from the OT program.

Students may not have a cumulative GPA below 3.0 in the OT didactic courses for more than two semesters (this encompasses semesters one through five). If the cumulative GPA for required coursework is below 3.0 for a third semester, the student will be dismissed from the program.

In order to enroll in semesters six and seven (OTH 5845 and OTH 5846 fieldwork courses) a cumulative GPA of 3.0 is required.

Graduation Requirements

To be eligible for graduation the student must:

- Meet all University Graduate School requirements for graduation.
- Satisfactorily complete all didactic and fieldwork requirements within OT degree program guidelines.
- Have a minimum graduate GPA of 3.0 in the OT degree required courses

Physical Therapy

Mark D. Rossi, Ph.D., PT, MPT, CSCS, *Chair and Associate Professor*
Erasmo Alvarez, DPT, PT, *Clinical Assistant Professor*
David Capote, DPT, PT, COMT, KTCC, CSCS, *Clinical Assistant Professor*
Helen Z. Cornely, *Ed.D., PT, Associate Dean of Administrative Affairs and Associate Professor*
Inae Gadotti, Ph.D., PT, MSc, *Associate Professor*
Teresa Muñecas, DPT, Ed.D., PT *Director of Clinical Education and Clinical Assistant Professor*
Annabel Nunez-Gaunaurd, Ph.D., MSPT, PT, *Assistant Professor*
Lisa Roberts, DPT, PT, CSCS, *Clinical Assistant Professor*
Amanda Thomas, DPT, PT *Clinical Assistant Professor*
Edgar Vieira, Ph.D., PT, MSc *Associate Professor*

About the Department

The mission of at Florida International University's Physical Therapy Department is to contribute to the health of the global community. Our student centered program will prepare an ethnically, racially and culturally diverse group of students to be caring and competent Doctors of Physical Therapy. The department will foster critical thinking, scholarship and leadership through the conduct of an evidenced based curriculum and dissemination of basic and clinical research related to populations who have, or are at risk for developing movement problems. Faculty and students will be engaged in community activity that is aligned with our research and teaching.

The curriculum is accredited by the Commission on Accreditation of Physical Therapy Education (CAPTE), and has been since its inception in 1975.

The department occupies over 6,000 square feet of offices and laboratories on the Modesto A. Maidique Campus of FIU. The departmental inventory includes the full range of clinical equipment used by practicing physical therapists and is continually updating equipment to support faculty and student research projects. The Human Performance Laboratory contains state-of-the art biomechanics equipment to measure many aspects of human movement.

There are 10 full-time faculty members, and numerous adjunct faculty.

The clinical and research interests of the faculty range from pediatrics to geriatrics, and from neuroscience to biomechanics.

The faculty prides itself on its intellectual, cultural, racial, and ethnic diversity. There are approximately 160 students in the department.

Academic Program

The department offers a three-year, 113-credit program leading to Doctor of Physical Therapy (DPT) degree.

The DPT program is rigorous, and is recommended only for highly motivated students with proven records of success as undergraduates. Admission to the program is limited to approximately 55 students per year.

Upon completion of this program, students will be eligible to apply for licensure as a Physical Therapist anywhere in the United States and several other jurisdictions.

Minimum Admission Requirements

1. A Bachelor's degree from an accredited institution.
2. An overall cumulative, pre-requisite, and last 60 hours of Upper Division GPA of 3.0
3. A score above the 50 percentile on both Verbal and Quantitative sections of the GRE is recommended. A minimum score of 3.5 is recommended for the Analytical portion of the GRE.
4. A minimum of 60 hours of observation and/or work experience with physical therapists.
5. Three letters of recommendation two of which must be from a physical therapist.
6. Completion of the following prerequisites courses:

Courses	Cr
Chemistry with Lab	8
Developmental Psychology	3
General Biology with Lab	4
Human Anatomy with Lab	4
Human Physiology with Lab	4
Physics with Lab	8
Psychology	3
Statistics	3

Additional Items:

1. Essay which explains why you want to become a physical therapist and why you are interested in attending FIU.
2. A curriculum vitae/resume.
3. Admission into FIU as a graduate student.

Application and Admission Processes

Applying for admission to the DPT program is via the Physical Therapist Centralized Application Service (PTCAS) at the below address.
http://www.ptcas.org/FloridaInternational.html.

The applicant also needs to complete a Supplemental Graduate School Online Form at **https://intra.fiu.edu/Facts/PTCAS**.

Admission to the program is highly competitive. The Department selects students based primarily on their record of academic performance, although evidence of non-academic outstanding personal qualities is also considered.

Timelines

Final application deadline is mid-January to begin the program the following Fall semester.

Qualified applicants will be invited for an interview.

Early Admission

We will review applicants on a monthly basis beginning in September prior to the January deadline. Well qualified students who apply within this time frame will be invited to campus for an early interview. Successful candidates will be offered early admission contingent on completing all admission requirements. Go to the department's website for a full description of the admissions process and prerequisite courses **http://cnhs.fiu.edu/pt/index.html**.

GENERAL POLICIES AND INFORMATION

Upon acceptance in to the Doctor of Physical Therapy program, all students will be required to complete a criminal background check and a level II FBI fingerprint background check.

The Director of Clinical Education (DCE) will review these results. In the event that a flagged item appears on either report, the student will be required to meet with the Chair and Director of Clinical Education of the department. The student will be counseled and instructed that he or she will have to disclose this information to the state board upon application for the National Physical Therapy Exam, and provide any additional information requested by the state. The student will also have to acknowledge, in writing, that they are aware that the flagged item may result in the inability to sit for the NPTE for licensure.

Academic Warning, Probation and Dismissal

Warning
A DPT student whose cumulative graduate GPA falls below a 3.0 will be placed on warning, indicating academic difficulty. The student may or may not be placed for clinical experience. The final decision will be based on faculty recommendation and decided by department chair and DCE. Not completing a clinical experience in the correct sequence will delay the student's graduation.

Probation
A DPT student on warning whose cumulative graduate GPA remains below 3.0 in the following semester will be placed on probation, indicating serious academic difficulty. The student may or may not be placed for clinical experience. The final decision will be based on faculty recommendation and decided by department chair and DCE. Not completing a clinical experience in the correct sequence will delay the student's graduation.
The department may indicate other conditions, which must be met in order to continue enrollment.

Dismissal
A DPT student on probation whose cumulative and semester GPA fall below a 3.0 will be automatically dismissed from the DPT program and the University.

Dismissal Appeal
Students must follow the University Graduate School Rules and Regulations as published in the University Catalog.

Department Policy-Academic Progression
In addition to the warning, probation, and dismissal policy described above, a student will be dismissed from the Physical Therapy program if they receive a grade below a C in any course.

Grading Criteria

A 94-100
A- 90-93
B+ 87-89
B 84-86
B- 80-83
C+ 77-79
C 74-76

Below 74 is considered failing grade.

Class Attendance/Participation Policy
In accordance with the FIU Attendance Policy stated in the Graduate activities and presentations when these are part of a course. Failure to participate/present without approval from the course instructor is also grounds for course failure." Consistent attendance at scheduled classes and laboratory sessions are considered a prime indicator of mature and professional behavior and is expected of all students. Failure to follow the attendance policy is grounds for dismissal. If circumstances require a student to be absent, it is the student's responsibility to notify the faculty member in advance and ask to be excused. The student is held responsible for the material covered during that absence.
Any points (exams, quizzes, assignments, participation, etc.) associated with an unexcused absence, will not be eligible for makeup, and will be assigned a **zero**.
A student who must leave class before the scheduled ending time should request permission from the faculty member before the beginning of class. The student is held responsible for the material covered during the time the student is not there.
Punctuality is a demonstration of professional responsibility and the ability to fulfill a commitment on the part of the student. Arriving late to class or laboratory is disruptive and inconsiderate. If a circumstance requires a late arrival, the student should notify the faculty member in advance.
All students are expected to participate in class assignments, activities, and presentations if and when given. Failure to participate/present without approval from the course instructor will lead to course failure. Students are not to schedule any vacations or absences during the designated finals week for the semester. Testing schedules will not be modified.

Absence
A student who finds it necessary to be excused from registration in a graduate degree program for three consecutive terms, or one term in the case of students subject to continuous enrollment, must formally request a leave of absence from the graduate program. Leave time must be requested prior to the beginning of the anticipated leave time and must be approved by the program director or chairperson of the department, the dean of the appropriate school or college and the Dean of the University Graduate School. Leave will generally be granted in cases involving personal hardship, medical concerns, or family need. Academic standing is not considered a reason for granting a leave.

Leave of absence.
A leave of absence will not be granted for students currently enrolled with conditional status. A graduate student who returns from a leave of absence may be required to make changes to their research committee and/or research plan due to changes that have occurred in their absence.

Graduation Requirements
To be eligible for graduation the student must:
• Meet all University Graduate School requirements for graduation.
• Satisfactorily complete all didactic and fieldwork requirements within DPT degree program guidelines.
• Have a minimum graduate GPA of 3.0 in the DPT degree required courses

Program of Studies

Fall Semester 1: (15 credits)

PHT 5174	Analysis of Movement and Function	3
PHT 5174L	Analysis of Movement and Function Lab	1
PHT 5523	Dimensions of Professional Practice Seminar I	3
PHT 5070	Principles of Diagnostic Imaging	1
PHT 5244C	Principles of Therapeutic Exercise	3

PHT 5180	Musculoskeletal Diagnosis and Management I	3
PHT 5180L	Musculoskeletal Diagnosis and Management I Lab	1

Spring Semester 1: (14 credits)

PHT 5303	Principles of Pathophysiology in Physical Therapy	3
PHT 5205	Clinical Skills	3
PHT 5205L	Clinical Skills Lab	1
PHT 6353	Principles of Diagnostics and Pharmacology in Physical Therapy	3
PHT 5181	Musculoskeletal Diagnosis and Management II	3
PHT 5181L	Musculoskeletal Diagnosis and Management II Lab	1

Summer Semester 1: (12 credits)

PHT 5027	Clinical Education Seminar	1
PHT 6165C	Applied Clinical Neuroanatomy	3
PHT 6341	Diagnosis and Management of Disease	3
PHT 6341L	Diagnosis and Management of Disease Lab	1
PHT 5182	Musculoskeletal Diagnosis and Management III	3
PHT 5182L	Musculoskeletal Diagnosis and Management III Lab	1

Fall Semester 2: (14 Credits)

PHT 6125	Clinical Biomechanics	3
PHT 5805	Clinical Internship I (8 weeks)	3
PHT 6163	Neurological Diagnosis & Management I	3
PHT 6163L	Neurological Diagnosis & Management I Lab	1
PHT 6905C	Independent Study	1
PHT 6625	Advanced Physical Therapy Clinical Research Methodologies and Design	3

Spring Semester 2: (12 credits)

PHT 6164	Neurological Diagnosis and Management II	3
PHT 6164L	Neurological Diagnosis and Management II Lab	1
PHT 6381	Diagnosis and Management of Cardiopulmonary Systems	3
PHT 6381L	Diagnosis and Management of Cardiopulmonary Systems Lab	1
PHT 6970C	DPT Project I	3
PHT 6547C	Case Management in Physical Therapy I	1

Summer Semester 2: (14 credits)

PHT 5373	Advanced Therapy Assessment of the Elderly	3
PHT 6169	Neurological Diagnosis and Management III	3
PHT 6169L	Neurological Diagnosis and Management III Lab	1
PHT 6970	DPT Project 2	3
PHT 6127	Advanced Pathologic Movement Analysis	3
PHT 6547C	Case Management in Physical Therapy I	1

Fall Semester 3: (13 credits)

PHT 5505C	Physical Therapy Constructs of Health and Wellness	3
PHT 6009	Differential Diagnosis in Physical Therapy	3
PHT 6817	Clinical Internship II	3
PHT 6970	DPT Project 3	3
PHT 6547C	Case Management in Physical Therapy I	1

Spring Semester 3: (14 credits)

PHT 6827	Clinical Internship III	3
PHT 6725C	Extremity Evaluation and Rehabilitation	3
PHT 6325	Advanced Clinical Pediatric Physical Therapy	3
PHT 5524	Dimensions of Professional Practice Seminar II	3
PHT 6905C	Independent Study	1
PHT 5960	Comprehensive Exam I	1

Summer Semester 3: (5 Credits)

PHT 6828	Clinical Internship IV	3
PHT 6905C	Independent Study	1
PHT 6961	Comprehensive Exam II	1

Certificate Programs

Graduate Certificate in Communication Sciences and Disorders

The Graduate Certificate in CSD provides graduate level instruction in the basic processes of speech, language, and hearing, speech and language development, and speech and language production that are required for the identification, prevention, and management of speech, language, swallowing, and cognitive-communication disorders. Students applying to the Graduate Certificate in CSD must already have completed a bachelor's degree, which may be in any discipline. This certificate program is open to non-degree-seeking students only. The Graduate Certificate in CSD prepares students with bachelor's degrees in other discipline areas with the required coursework to be eligible for application to the "Masters'" program in Speech-Language Pathology (SLP) in the Department of Communication Sciences and Disorders. Individuals with a bachelor's degree and the completed Graduate Certificate in CSD may be eligible to apply for state licensure to become a speech-language pathology assistant. However, the "Masters'" degree in Speech-Language Pathology is the only entry level degree to become a practicing licensed and certified Speech-Language Pathologist. Completion of the coursework in the Graduate Certificate in CSD or its equivalent is required for eligibility for application into the "Masters'" program in SLP. The Graduate Certificate in CSD consists of 28 required credits (10 courses) of specified graduate coursework.

Admission Requirements

A student already holding a BA or BS degree who has a minimum 3.0 cumulative GPA is eligible to apply for the Graduate Certificate program in CSD. A minimum grade of "C" or better is required for all certificate courses. For any courses in the Graduate Certificate program in CSD that are eligible for transfer to the "Masters'" program in SLP (see Graduate course catalog), a minimum grade of "B" is required.

Required Courses

The Graduate Certificate program in CSD consists of 28 required credits (10 courses) of specified graduate coursework.

SPA 5009C	Normal Communication Development and Disorders	3
SPA 5012C	Introduction to Communication Sciences and Disorders	3
SPA 5035C	Disorders of Hearing and Audiological Sciences	3
SPA 5051C	Clinical Observations, Management, and Procedures in Communication Disorders	3
SPA 5102C	Advanced Human Anatomy and Physiology of Mechanisms of Communication	3
SPA 5102L	Advanced Human Anatomy and Physiology of Mechanisms of Communication Laboratory	1
SPA 5113C	Advanced Applied Phonetics	3
	or	
LIN 5206	Phonetics	3
SPA 5150C	Acoustics of the Sciences of Speech and Hearing	3
SPA 5262	Linguistics for SLP	3
	or	
LIN 5018	Introduction to Linguistics	3
SPA 6322	Aural Habilitation and Rehabilitation	3

This course is a required course in the "Masters'" program in SLP at FIU. Students who complete this course through the Graduate Certificate in CSD or who complete the course at another university will be exempt from taking the course in the "Masters'" program.

LIN 5018	Introduction to Linguistics	3
	or	
SPA 5262	Linguistics for SLP	3

Additional Requirements

To remain in the Graduate Certificate program in CSD, students must maintain a minimum 3.0 cumulative GPA in the graduate certificate coursework. To be awarded the Graduate Certificate in CSD, the student must achieve a minimum 3.0 GPA in the certificate and complete all of the courses in the Certificate at FIU. Students in the Graduate Certificate in CSD are required to be continuously enrolled in at least two courses per semester (except when taking the last course in the certificate program). Furthermore, all students are required to complete the certificate within four continuous semesters, which includes summer semesters.

Graduate Certificate in Culturally Competent Nursing Education

This certificate provides a unique combination of courses to prepare the graduate in the pedagogical competencies essential to teach nursing in an increasingly complex health care environment. This certificate program is open to degree-seeking students only. The technologically enhanced plan of study builds on advanced professional nursing competencies and emphasizes the use of a variety of assessment, instructional, curricular development and evaluate strategies that facilitate learning in culturally diverse populations. The goals of this certificate are to:

- Prepare nurse faculty with the knowledge, skills, and structured experiences to enhance classroom and clinical teaching and learning.
- Prepare nurse educators from diverse backgrounds who can teach nursing students to provide culturally competent care for diverse communities.
- Provide nurse educators with expertise in teaching technologically enhanced curricula and in facilities that enhance learning.
- Prepare nursing faculty and advanced practice nurses for professional certification as a Nurse Educator.

Admission Requirements

1. Completed FIU Graduate Admissions online application at https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html, (305) 348-7000.
2. Completed Graduate Nursing certificate application within College of Nursing and Health Sciences.
3. A student must be enrolled in or have completed a Master of Science in Nursing (MSN) degree with a clinical nursing specialty from a NLNAC or CCNE accredited program.

4. Graduate grade point average of 3.0 or higher.
5. Graduate courses (3 credits each) completed or in progress: nursing theory, research, advanced client assessment, advanced pathophysiology, and advanced pharmacology.*
6. Current RN license in Florida.

Other requirements apply. Please contact the graduate nursing office for more detailed information.
**Students lacking required courses must take them prior to registering for the Nursing Education Certificate specialty courses.*

Required Credits
Total of 16 credits

Curriculum

NGR 6708C	Classroom Teaching Strategies for Nursing	3
NGR 6710L	Clinical Specialty Practicum for the Nurse Educator	1
NGR 6713	Curriculum Development in Nursing	3
NGR 6714C	Clinical Teaching Strategies for Nursing	3
NGR 6715	Instructional Technology in Nursing and Health Sciences	3
NGR 6718	Testing and Evaluation in Nursing Education	3

Part-Time Study

Part-time study is available and can be accomplished at the student's own pace but must be completed within the **University's time requirement of six years**. Please contact the graduate nursing office for more information.

Graduate Certificate in Gerontology

The objective of the certificate is to provide graduate students and qualified practitioners in the field of aging with a range of gerontological courses leading to a specialization in gerontology to supplement their chosen disciplines. Through provision of an in-depth understanding of the bio-socio-psychological nature of the aging process, and the relation of political and economic resources, the program's long range objective is to increase the knowledge and sensitivity of professionals in this area, and thereby improve the service delivery system for the increasingly large population of elderly Floridians. This certificate program is open to both degree- and non-degree seeking students.

Admission

Students must have a bachelor's degree and be admitted to the program by the Program Coordinator who will serve as their faculty advisor.

Program of Study: (18)

SOW 5641	Understanding the Process of Aging	3
NGR 5250	Physical Change and Healthy Aging	3
HSA 5226	Management of Long Term Care Systems	3

The balance of four courses to be selected from the following areas of concentration. Students who have not had direct practice with older people will be required to select an Individual Study course which will include 225 hours of practicum experience.

Long Term Care Administration

HSA 5225	Long Term Care Management I	3
HSA 5226	Management in Long Term Care	3
HSA 5227	Long Term Care Management II	3
HSA 5454	Ethical Decision Making in Health Services Administration	3
HSA 5816	Practicum in Long Term Care Management	3

Aging and Rehabilitation

OTH 5600	Study of Gerontology as Related to Occupational Therapy	3
OTH 5613	Interdisciplinary Approach to Aging	3
OTH 5630	Occupational Therapy Assessment of the Elderly	3
OTH 5764	Research *(topic selected in Geriatric Clinical Specialty)*	3
OTH 5905	Independent Study *(variable credit)*	
PHT 6238	Motor Development: Adult Through Geriatrics	3
PHT 6239	Adult Congenital Handicapping Conditions	3

Psychology of Aging

DEP 5404	Proseminar in Psychology of Adulthood and Aging	3
DEP 6438	Gerontological Assessment	3
DEP 6465	Psychology of Culture and Aging	3
DEP 6446	Cognitive Processes of Aging	3

Social Work Practice with Older Persons

SOW 5605	Medical Social Work	3
SOW 5845C	Counseling the Elderly	3
SOW 5905	Individual Study	1-3
SOW 6245	Social Welfare Policy and Services for the Elderly [1]	3
SOW 6247	Housing and Environmental Needs	3
SOW 6359	Social Work Treatment with Families of Elderly[1]	3
SOW 6646	Social Work Practice with Elderly[1]	3
SOW 6647	Advocacy in Social Work Practice	3
SOW 6649	Social Work Practice in Long Term Care and the Elderly	3

[1]Open only to students with MSW degree or students in Master's degree program in Social Work.

Education

ADE 5195	Designing Education and HRD Programs for Disadvantaged Adults	3

Criminal Justice

CCJ 6935	Special Topics: Crime and the Elderly	3

Nurse Executive Certificate Program

Students who are not seeking the Master of Science in Nursing (MSN) degree, but who still seek professional preparation for a nursing management career are candidates for the Nurse Executive Certificate Program. The purpose of the certificate program is to enhance the knowledge and skills of the first line nursing supervisory staff. These courses can also be applied toward a Nurse Executive graduate (MSN) degree. Eligible candidates for admission to the program must have a baccalaureate degree in nursing. This certificate program is open to non-degree-seeking students only.

Curriculum

NGR 5720C	Organizational Dynamics of Nursing	

	Systems	3
NGR 6726C	Nursing Management/CQI	3
NGR 5723C	Advanced Nursing Administration I	4
NGR 6724C	Advanced Nursing Administration II	4

Post-Graduate Nurse Practitioner Certificate Program

The Post-Graduate Nurse Practitioner Certificate builds upon a previously earned master's degree in nursing or higher and is designed for individuals who hold licensure as a registered nurse (RN) and/or advanced registered nurse practitioner (APRN) in the state of Florida.

This program is for RNs who seek initial national certification and licensure as an APRN in a specialty area and for nurse practitioners who wish to be nationally certified in an additional specialty area. The following specialty tracks are available on a space-available basis:

- Adult-Gerontology Primary Care Nurse Practitioner
- Pediatric Primary Care Nurse Practitioner
- Family Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner

Please note: Students enrolled in the Certificate Program are classified as non-degree seeking; therefore do not qualify for federal financial aid, school certified private loans or College of Nursing and Health Sciences Scholarships.

Admission Requirements

1. A Master of Science in Nursing (MSN) degree from an CCNE, NLNAC, or ACEN accredited program.
2. A graduate (MSN) grade point average (GPA) of 3.0 or above.
3. Graduate courses in nursing theory (3 credits) and research (3 credits). advanced pathophysiology (3 credits), advanced health assessment (3 credits), and advanced pharmacology (3 credits).
   -If the applicant's coursework in advanced pharmacology, advanced pathophysiology, and advanced health assessment took place more than 3 years ago, they may need to repeat the courses prior to enrollment specialty courses, following evaluation of record and professional experience by admission committee and program chair.
4. State of Florida RN and/or APRN licensure. A photocopy of the license must be submitted along with student's application to the Post Graduate Nurse Practitioner Certificate Program.
5. Pre-admission panel interview with a members of the Graduate Nursing Admissions Committee.
6. Two letters of recommendation.

Admission Procedure

STEP 1 - Submit an application to Nursing CAS (The Centralized Application Service for Nursing Programs)

• Complete an online application via Nursing CAS http://www.nursingcas.org and pay appropriate fees. Applications will be accepted from Dec 1 to March 1 for Fall admission.

• Send official academic transcripts from ALL SCHOOLS attended (all Associate, Bachelors, Masters degree, and higher [if applicable] coursework) to Nursing CAS for upload and verification.

• Upload all required supplemental items including professional CV, active Florida RN and/or APRN License, recommendations and Personal Statement to Nursing CAS.

• Complete the required FIU supplemental application and pay the $30 fee.

STEP 2 - Professional Interview

• Following a review of all completed applications a select number of applicants will be offered the opportunity to participate in a panel interview.

• Interview candidates may be instructed to bring an additional set of official transcripts to their interview appointment.

Curriculum

Advanced Practice Nursing Pre-requisites: (13 credits)

NGR 6002C	Advanced Health Assessment	4
NGR 5131	Culture and Advanced Nursing Practice	3
NGR 5141	Pathophysiologic Basis of Advanced Nursing Practice	3
NGR 6172	Pharmacological Concepts in Advanced Nursing Practice	3

Advanced Practice Nursing Core:

Select one Specialty Track

Adult-Gerontology Primary Care Nurse Practitioner: (15 credits)

NGR 6201C	Advanced Adult-Gerontology Nursing I	3
NGR 6201L	Advanced Adult-Gerontology Nursing Practicum I	3
NGR 6202C	Advanced Adult-Gerontology Nursing II	3
NGR 6202L	Advanced Adult-Gerontology Nursing Practicum II	3
NGR 6209	Clinical Decision Making in Advanced Adult- Gerontology Nursing	3

Role Development: (4 credits)

Advanced Practice Nurse

NGR 6700L	Role Synthesis in Advanced Adult-Gerontology Nursing Practice	4

Or

Pediatric Primary Care Nurse Practitioner: (15 credits)

NGR 6301C	Advanced Child Health Nursing I	3
NGR 6301L	Advanced Child Health Nursing Practicum I	3
NGR 6302	Advanced Child Health Nursing II	3
NGR 6302L	Advanced Child Health Nursing Practicum II	3
NGR 6337	Clinical Decision Making in Advanced Child Health Nursing	3

Role Development: (4 credits)

Advanced Practice Nurse

NGR 6337L	Role Synthesis in Advanced Child Health Nursing Practice	4

Or

Family Nurse Practitioner: (19 credits)

NGR 6601C	Advanced Family Health Nursing I	4
NGR 6601L	Advanced Family Health Nursing Practicum I	4
NGR 6602C	Advanced Family Health Nursing II	4
NGR 6602L	Advanced Family Health Nursing Practicum II	4
NGR 6748	Clinical Decision Making in Advanced Family Nursing Practice	3

Role Development: (4 credits)

Advanced Practice Nurse

NGR 6619L	Role Synthesis in Advanced Family Health Nursing Practice	4

Or

Psychiatric-Mental Health Nurse Practitioner: (18 credits)

NGR 6538	Psychopharmacology for Advanced Practice Nursing	3
NGR 6503	Advanced Psych Health I	3
NGR 6503L	Advanced Psych Health Practicum II	3
NGR 6504C	Advanced Psych Health II	3
NGR 6202L	Advanced Psych Practicum II	3
NGR 6209	Clinical Decision Making in Advanced Psych Health Nursing	3

Role Development: (4 credits)

Advanced Practice Nurse

NGR 6505L	Role Synthesis in Advanced Psych Health Nursing Practice	4

Post Master's Certificate in Nursing Education

The Post Master's Certificate in Nursing Education is designed to provide nursing faculty teaching in all nursing programs (LPN, ADN, BSN, MSN, and Doctoral) knowledge, skill, and structured experiences in classroom and clinical teaching. It enables Community College nursing faculty in Florida to meet requirements for courses in education to maintain their teaching certificates. It will prepare nursing faculty for professional certification by the National League for Nursing for Nursing (NLN) as a Nurse Educator. This certificate program is open to non-degree-seeking students only.

The curriculum for the Post Master's Certificate in Nursing Education consists of 15 credit hours, 9 credit hours in classroom/didactic instruction and 6 credit hours in classroom/clinical teaching experience/seminar.

Admission Requirements

1. Master's degree in Nursing from a nationally accredited education institution.
2. GPA of 3.0 in MSN
3. Letters of recommendation from prior faculty member and nursing supervisor.
4. Statement of personal goals including personal philosophy of teaching and learning.
5. Graduate course in culture and advanced practice nursing (3 credits)

Curriculum

NGR 6708C	Classroom Teaching Strategies for Nursing (Practicum Experience in Classroom Instruction)	3
NGR 6713	Curriculum Development in Nursing	3
NGR 6714C	Clinical Teaching Strategies for Nursing (Practicum Experience in Clinical Instruction)	3
NGR 6715	Instructional Technology in Nursing and Health Sciences	3
NGR 6718	Testing and Evaluation in Nursing Education	3

Course Descriptions

Definition of Prefixes

ATR-Athletic Training; GEY-Gerontology; HSA-Health Services Administration; HSC-Health Sciences; NGR-Nursing Graduate; OTH-Occupational Therapy; PET-Physical Education Therapy; PHT-Physical Therapy; SPA-Speech Language Pathology

F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

ATR 5105C Principles of Athletic Training with Lab (4). Introduction to principles of athletic training, including the athletic training profession, risk management, the evaluation process, injury prevention, immediate care, and medical documentation. Prerequisite: Admittance into Athletic Training Education Program. Corequisites: ATR 5115C, ATR 5805.

ATR 5115C Management of Medical Emergencies (3). Introduction to the principles of evaluating and managing medical emergencies and application of associated clinical skills. Prerequisite: Admittance into Athletic Training Education Program. Corequisites: ATR 5105C, ATR 5805. Prerequisite: Admittance into Athletic Training Education Program. Corequisites: ATR 5105C, ATR 5805.

ATR 5217C Clinical Evaluation and Diagnosis in Athletic Training I (4). Clinical evaluation and diagnosis of orthopedic injuries and/or dysfunctions that occur to the lower extremity during physical activity. Prerequisites: ATR 5105C, ATR 5115C, ATR 5805. Corequisites: ATR 5305C, ATR 5815L.

ATR 5218C Clinical Evaluation and Diagnosis in Athletic Training II (4). Clinical evaluation and diagnosis of orthopedic injuries and/or dysfunctions that occur to the upper extremity during physical activity. Prerequisites: ATR 5217C, ATR 5305C, ATR 5815L. Corequisite: ATR 5316C.

ATR 5219C Clinical Evaluation and Diagnosis in Athletic Training III (4). Clinical evaluation and diagnosis of orthopedic injuries and dysfunctions that occur to the head and trunk during physical activity and general medical conditions encountered by the Athletic Trainer. Prerequisites: ATR 5218C, ATR 5316C, ATR 5825L. Corequisites: ATR 5835L, ATR 6620.

ATR 5305C Therapeutic Interventions in Athletic Training I (4). Introduction to therapeutic modalities and rehabilitation techniques encountered in athletic training practice for acute injuries, including application of associated clinical skills. Prerequisites: ATR 5105C, ATR 5115C, ATR 5805. Corequisites: ATR 5217C, ATR 5815L.

ATR 5316C Therapeutic Interventions in Athletic Training II (4). Introduction to therapeutic modalities and rehabilitation techniques encountered in athletic training practice for sub-acute and chronic injuries, including application of associate clinical skills. Corequisite: ATR 5218C.

ATR 5435 Diseases and Disabilities in the Physically Active (3). Introduction to the clinical signs and symptoms of general medical conditions that will present to the Certified Athletic Trainer. Prerequisites: ATR 5218C, ATR 5316C, and ATR 5825L. Corequisite: ATR 5219C.

ATR 5517 Administration and Professionalism in Athletic Training (3). Introduction to the concepts of legal liability, budgeting, inventory, facilities design and general administration of the athletic training room. Prerequisites: ATR 5219C, ATR 5835L, ATR 5435. Corequisite: ATR 6620.

ATR 5805 Clinical Education Seminar in Athletic Training (1). Addresses issues related to the clinical setting and prepares the student for the clinical component of the Athletic Training Program while completing clinical experience hours. Prerequisite: Admittance into Athletic Training Program.

ATR 5815L Clinical Education I (3). Designed to allow students to apply athletic training techniques associated with the principles of athletic training, management of medical emergencies, and clinical education. Prerequisites: ATR 5105C, ATR 5115C, ATR 5805. Corequisites: ATR 5217C, ATR 5305C.

ATR 5825L Clinical Education II (3). Designed to allow students to apply athletic training techniques associated with orthopedic assessment of the lower extremity and therapeutic modalities. Prerequisites: ATR 5217C, ATR 5305C, ATR 5815L. Corequisites: ATR 5218C, ATR 5316C.

ATR 5835L Clinical Education III (3). Designed to allow students to apply athletic training techniques associated with orthopedic assessment of the upper extremity and rehabilitation. Prerequisites: ATR 5218C, ATR 5316C, ATR 5825L. Corequisites: ATR 5219C, ATR 5435.

ATR 5845L Clinical Education IV (3). Designed to allow students to apply athletic training techniques associated with orthopedic assessment of the head, spine, and trunk, intervention and referral, and diseases and disabilities. Prerequisites: ATR 5219C, ATR 5835L, ATR 5435. Corequisite: ATR 6620.

ATR 6207 Preventative Interventions in Athletic Training (3). Advanced primary and secondary assessment skills used by athletic trainers to develop preventative interventions will be examined and applied. Attendance at an on-campus summer workshop is required.

ATR 6425 Pharmacology and Diagnostic Imaging in Athletic Training (3). Introduces students to the principles of pharmacology and diagnostic imaging and their relationships to the Certified Athletic Trainer. Prerequisite: ATR 5517, ATR 6620, ATR 5845L. Corequisites: ATR 6621, ATR 6855L.

ATR 6507 Entrepreneurial Leadership in Athletic Training (3). Leadership and business strategies related to athletic training. Topics that will be covered include characteristics associated with entrepreneurism, innovation, and identifying niches.

ATR 6518 Healthcare Informatics in Athletic Training (3). Technologies used to manage clinical data and access the most recent evidence for optimum patient care will be learned and applied. Various outcomes assessment techniques will also be discussed.

ATR 6526 Quality Improvement Strategies in Athletic Training (3). Quality improvement strategies from multiple perspectives will be applied and evaluated. Attendance at an on-campus summer workshop is required.

ATR 6527 Community Health and Prevention Strategies in Athletic Training (3). Public health concepts encountered by athletic trainers will be introduced including risk factors, various disparities, and community-based programs and prevention strategies for medical conditions.

ATR 6546 Successful Business Strategies in Athletic Training (3). Establishing a business structure, creating a market for one's business, management and leadership principles, and other critical components of starting and operating a successful business venture.

ATR 6547 Financial Planning for Athletic Training (3). Designed for the athletic training student to learn how to build a financial portfolio as it relates to professional and personal goals.

ATR 6548 Athletic Training Consulting (3). Various opportunities for athletic trainers to consult within and outside the profession by developing the skills required to successfully offer a service, product, or information.

ATR 6555 Academic Leadership in Athletic Training (3). Addresses leadership styles for athletic trainers working in a secondary school or college/University setting. Issues pertaining to human resources, personnel, supervision, performance, promotion.

ATR 6556 Curricular Planning & Development in Athletic Training (3). Components of planning and developing a curriculum to include writing course syllabi, programmatic and regional accreditation, curricular sequencing, interprofessional education, and exam writing.

ATR 6557 Navigating Academia in Athletic Training (3). Introduces the structure and governance of a college/University academic setting. Common terms, titles, roles, expectations are discussed. Components of teaching, scholarship, service, and advising.

ATR 6558 Teaching & Learning Strategies in Athletic Training (3). This class focuses on common methods implemented in the learning environment. Various teaching and learning style inventories will be introduced and analyzed for different settings and audiences.

ATR 6620 Research and Evidence-Based Practice in Athletic Training I (3). Introduces students to a systematic approach to ask and answer clinically relevant questions in athletic training through the critical examination of existing research evidence.

ATR 6621 Research and Evidence-Based Practice in Athletic Training II (3). Introduces students to the concepts of conducting research and disseminating findings. Prerequisite: ATR 6620.

ATR 6855L Clinical Education V (6). Designed to allow students to apply the athletic training techniques associated with administration and professionalism in allied health care in selected clinical education settings. Prerequisites: ATR 5517, ATR 5845L.

ATR 6906 Independent Study/Thesis in Athletic Training (1-9). Faculty supervised project or research thesis that involves an in-depth study of contemporary issues and/or clinical practices relevant to athletic training. Prerequisites: Graduate standing and permission of the instructor.

ATR 6935 Contemporary Issues in Athletic Training (3). This course examines contemporary issues relevant to the profession of Athletic Training. Prerequisites: ATR 5517, ATR 5845L, ATR 6621. Corequisite: ATR 6855L.

ATR 7606 Epidemiology and Health Surveillance in Athletic Training (3). Epidemiological concepts for quantifying injury and illness will be introduced. Topics include study design, techniques, hypothesis formation, and access to care.

ATR 7619 Using Research for Evidence-based Clinical Practice in Athletic Training (3). Designed to enhance the athletic trainer's clinical decision-making process by integrating clinical experience, patient values, and best available research evidence.

ATR 7630 DAT Applied Scholarship I (3). Critically analyzes translational research and clinical practice. Guides one through understanding how clinically relevant research questions are developed, studied, and implemented.

ATR 7631 DAT Applied Scholarship II (3). Designed to introduce one to applied scholarship. Describes the publication process for poster and presentation for local, state, regional, national, and international journals and conferences. Prerequisite: ATR 7630 or permission from the instructor.

ATR 7632 DAT Applied Scholarship III (3). Analyzes qualitative and quantitative literature for clinical practice and academia. Small grant funding will be introduced. Prerequisites: ATR 7631 or permission from the instructor.

ATR 7633 DAT Applied Research IV (3). The fourth in a series of five courses designed to culminate in a research project. Students will complete data collection and manage and analyze data for an applied research project. Prerequisite: ATR 7632 or permission of the instructor.

ATR 7634 DAT Applied Research V (3). The fifth in a series of five courses designed to culminate in a research project. Students will complete data analysis and disseminate the research findings through submission of a manuscript. Prerequisite: ATR 7633 or permission from the instructor.

ATR 7806 DAT Capstone Project (3). Individualized Specialization plan chosen from either Educational Leadership or Entrepreneurial Leadership which develops a body of knowledge and skills culminating in a capstone project. Repeatable. Prerequisite: Open to DAT students only.

ATR 7955 Athletic Training Globalization (3). Prepares the athletic training student to develop competency in cultural awareness. Students develop a global awareness project that has the option of including international travel.

GEY 5005C Issues in Gerontology for Health Professions (3). This course examines social, economic, and demographic issues challenging older adults and health care professionals providing services to this age group.

GEY 5600 Physical Change and Healthy Aging (3). Primary health care and wellness with discussion and assessment of normal physiological alterations and their relationship to common health concerns and medical problems of older adults.

HSA 5125 Introduction to Health Policy and Management (3). Healthcare systems are broadly analyzed in social, economic, and political contexts, including operational and programmatic components as they evolved in changing patterns and trends.

HSA 5177 Financing and Reimbursement for Long Term Care Facilities (3). This course introduces the theory and practice of government regulations as they pertain to long term care facilities. The program seeks to identify the critical elements for securing payments for service and study relevant capital investment procedures and policies. Prerequisite: HSA 5225. Corequisite: HSA 5227.

HSA 5225 Long Term Care Management I (3). Long term care facility organization and management are studied. Management implications of the social, economic, financial, and regulatory environment of nursing homes are examined. Prerequisite: HSA 6185.

HSA 5226 Management of Long Term Care Systems (3). Organizational, financial, and policy issues in the management of long term care systems.

HSA 5227 Long Term Care Management II (3). Survey of theories of gerontic care for understanding the aging process. Focus is on the application of knowledge of the aging process to management and care given in nursing homes. Corequisite: HSA 5816.

HSA 5655 Ethical Decisions in Health Services Administration (3). This course will study ethical principles as they apply to areas of management, supervision and clinical practice in the delivery of health care. Emphasis is on managerial decision-making. Prerequisites: HSA 5125, HSA 6185.

HSA 5816 Practicum in Applied Management in Long Term Care (3). Students will spend 180 hours in supervised practice in a nursing home setting. They carry out managerial responsibilities related to the administration of the facility. Corequisite: HSA 5227.

HSA 5876L Administrative Residency in Nursing Home Setting (3-6). Students will spend 480 hours of supervised practice in a selected nursing home to gain experience in organization and management within the nursing environment. Prerequisites: HSA 5816, HSA 5225, HSA 5226, HSA 5227.

HSA 5935 Special Topics Seminar in Health Services (1-3). Students investigate topics of interest in health care services through lectures by the faculty and guest speakers. May be repeated. Prerequisite: Permission of faculty advisor.

HSA 6149 Strategic Planning and Marketing of Health Care Services (3). Principles, techniques, and case study applications of strategic planning and marketing in the context of changing environmental, policy, and competitive forces in the health services industry. Prerequisite: Completion of 36 credit hours in program coursework.

HSA 6155 Health Policy and Economics (IS) (3). This course examines the impact of government, private sector, and interest groups on priority setting in global health policymaking and national health strategies using basic economics principles. Prerequisites: HSA 6415, HSA 6156, PHC 6065. For PMBA students, completion of MAN 6095, HSA 6176, and HSA 6156.

HSA 6156 Economic and Decision Analysis in Health Services (IS) (3). Using economics as a tool, this course analyzes specific world-wide health care problems and the functioning of health care markets. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, and HSA 6176.

HSA 6175 Financial Management of Health Systems (3). Aspects of modern hospital and health care organization financial management are covered to prepare students for executive roles in policy planning and control responsibilities involving budgeting, auditing, investing, capital financing, etc. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6176 Financing & Reimbursement of Health Systems (IS) (3). In this course financing models for health delivery systems are examined. Reimbursement strategy of Medicare, Medicaid and other third party payers are analyzed. Prerequisite or Corequisite: HSA 5125, For PMBA students, MAN 6095.

HSA 6185 Management and Organizational Theory in Health Care (3). Fundamentals of management and organizational theory with focus on roles and functions of managers, and the influences of organizational structure and design in the dynamic environment of health care systems.

HSA 6186 Leadership and Organization Behavior in Health Care Systems (3). Examine leadership and organizational behavior in health care settings. Personal and profession growth are encouraged through integrative study of individual, group and organizations issues. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6187 Managing Human Resources and Health Professions (3). Study of human resource functions and activities necessary to enhance knowledge, competencies, skills, attitudes and behavior and to improve individual and organizational performance in health care organizations. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6197 Design and Management of Health Information Systems (3). The development and management of health information systems to support managerial decision-making. Emphasis is on the integration of clinical, personnel, and financial data. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6205 Hospital and Health Facilities Organization (3). Administrative theory and management principles are examined in their application to the organizational analysis of hospitals and health care facilities. Prerequisites: HSA 5125, HSA 6185 or permission of the instructor.

HSA 6215 HMO and Ambulatory Care Administration (3). Overview of the management process employed in health maintenance organizations (HMO's) and other group medical practices operating under various financial

arrangements, including prepayment. Prerequisites: HSA 5125, HSA 6185, or permission of the instructor.

HSA 6415 Marketing and Demographic Analysis in Health Care (3). This course is designed to familiarize students with analytical procedures and empirical techniques of market analysis and to equip students for practical work in market analysis. Prerequisites or Corequisites: HSA 5125 and PHC 6065.

HSA 6426 Health Law and Legal Aspects of Management (3). The broad range of legal issues in health care and administrative aspects of law that concern health care managers are surveyed for implications concerning malpractice, patient rights, contracts, liability and immunity, taxation, surgical consent, etc. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6717 Advanced Health Services Management and Research Seminar (3). Integrates the theoretical and practical knowledge of other courses in the curriculum. Case studies and relevant research provide the substantive framework for analysis of health care issues. Prerequisite: Permission of the instructor.

HSA 6759 Quality Assessment and Outcome in Healthcare (3). The concept of quality and quantity assessment are examined from multiple perspectives: patients, healthcare providers, payors standard setting organization and healthcare policymakers. Prerequisites: Completion of Foundation Courses or minimum of 9 credit hours of program coursework including HSA 5125, HSA 6185, PHC 6065, HSA 6176.

HSA 6875 Administrative Residency (2). Off-campus placement in residency with health care organizations under supervision of a managing preceptor at the site. Prerequisites: HSA 6930 and approval of the coordinator.

HSA 6905 Directed Study in Health Services Administration (1-6). The course is designed to allow students an opportunity for in-depth literature research relating to a problem or issue in health services administration under the supervision of a faculty advisor. Prerequisite: Permission of faculty advisor.

HSA 6930 Professional Seminar in Health Services Management (1). A professional seminar to provide career development skills in preparation for residency or master's project. Prerequisite: Completed 36 credit hours in the program coursework.

HSA 6977 Masters Research Project (1-6). The student will be field afforded the opportunity to conduct a research project on a specific health care management problem in a community or institutional setting. A formal proposal will be prepared and approved by faculty. Students will be expected to demonstrate during the course of this research project that they can implement theoretical knowledge and skills learned earlier in courses on research methods and design. Prerequisites: HSA 6930 and permission of advisor.

HSC 5319 Teaching Health Education (4). Students will select various modern techniques and tools for teaching health education in elementary and secondary school settings.

HSC 5665 Information and Communication for Health Professionals (3). Information and communication technology introduces technology and practical computer applications for today's health care professional. This on-line course uses a web-based format. Prerequisite: Basic computer experience.

NGR 5064C Diagnostic and Therapeutics in Advanced Nursing Practice (3). Provides the advance practice nurse/student the theoretical background and clinical applications for diagnostics and therapeutics across the lifespan.

NGR 5110 Theories in Nursing (3). Analysis, evaluation, and application of theories from nursing and related disciplines to advanced nursing practice, research, education and administration. Prerequisites: Departmental permission, Graduate standing.

NGR 5131 Culture and Advanced Nursing Practice (3). Theoretical models explanatory of culture and behavioral manifestations of cultural diversity. Focuses on multicultural nursing and methodologies for nursing care throughout the life span. Prerequisite: Departmental permission.

NGR 5134C Interdisciplinary Health Care Across Cultures (3). The course focuses on health care teams. Types of service, roles and interdisciplinary interaction will be studied as they relate to policies, economics, ethics and ethnic issues in various countries. Prerequisite: Permission of Instructor.

NGR 5136 International Nursing System/Advanced Nursing Practice (3). Comparative analysis of philosophical, legal, political, economic and social underpinnings of the nursing progression within the context of international developments and trends in the post-cold war era.

NGR 5138 Cultural Immersion for International Health Care (1-2). The course introduces basic language, values, social etiquette, daily life, and interpersonal, family and health care patterns in a foreign country in preparation for cross-cultural health study. Prerequisite: Permission of the instructor.

NGR 5141 Pathophysiologic Basis of Advanced Nursing Practice (3). Focuses on the pathophysiologic basis of clinical judgment and client management in advanced nursing practice. Prerequisites: Graduate standing and permission of the department.

NGR 5168 Complementary and Alternative Therapies in Nursing and Healthcare (3). Provides the theory, practice and patterns of use in complementary and alternative practices and products (CAPPs). Integrates CAPPs knowledge with conventional healthcare using National Institutes of Health NCCAM framework.

NGR 5250 Physical Change and Healthy Aging (3). Emphasis on health alterations in aging, delivery of healthcare, and ethical decision-making and advocacy in relationship to common medical problems of the elderly and their families.

NGR 5263 Gerontology for Health Professions (3). A comprehensive overview of aging with the goal of enhancing health outcomes and promoting healthy aging locally and globally. Prerequisite: Graduate status.

NGR 5340 Women and Health: A Nursing Perspective (3). Analysis of the unique health concerns of women across the life span. Emphasizes a multidisciplinary approach. Prerequisite: Graduate standing.

NGR 5495 Women's Health Issues (3). This course is designed to acquaint the student with selected conditions impacting the health of women.

NGR 5610C Family Theory and Nursing Intervention Across Cultures (3). Students are exposed to selective family theories, family nursing assessment, intervention and evaluation. Culture and economic status and their influence on family structure and processes are addressed. Prerequisites: Graduate status, permission of instructor.

NGR 5632 Practicum in International Family Focused Nursing (1). Students apply learning about nursing care in another country, assessment and intervention with families by instituting a change in their work/practice place at home. Prerequisite: Permission of Instructor.

NGR 5660C Leadership and Advocacy for Child and Family Health (3). Acquisition and application of leadership/advocacy skills with culturally diverse families to improve healthcare in professional/public healthcare settings.

NGR 5720C Organizational Dynamics and Nursing Systems (3). Course provides a theoretical understanding of the dynamics of organizational design and behavior. Emphasis is placed on skills to analyze, diagnose and intervene in organizational dynamics.

NGR 5723C Advanced Nursing Administration I (4). Analyzes how social/ethical/legal issues, workplace diversity and organizational culture influences nursing management. Strategies for recruitment, retention and managing human resources are included. Corequisite: NGR 5730C.

NGR 5737 Legal and Ethical Dimensions of Advanced Nursing Practice (3). Analysis of legal and ethical precepts and application to moral and legal dilemmas in advanced nursing practice focusing on the advocacy role in promoting rights of individuals and families. Prerequisite: Consent of instructor.

NGR 5810 Research Methods in Nursing (3). Research methods and designs commonly used in nursing. Focuses on the research process as it is integrated in the interchange of theory, practice, and research using information systems. Prerequisites: Statistics, departmental permission and NGR 5110. Corequisite: NGR 5110.

NGR 5832 Applied International Nursing Research (3). Examines and applies international nursing research methods with a focus on global health related to health disparities in underserved populations in health disparities in underserved populations in local, national, and international areas. Prerequisites: PHC 6706 or comparable.

NGR 5905 Independent Study in Nursing (1-10). Individually determined, research oriented, in-depth study of a nursing problem or clinical experience as approved by the faculty preceptor. Prerequisites: BSN, Permission of the instructor, and admission to a graduate program.

NGR 5936 Special Topics in Nursing (1-6). Critical analysis of the clinical decision making process in advanced health nursing practice (ANP). Synthesis of learning from previous clinical courses. Prerequisite: Must be a nursing student or Florida licensed RN.

NGR 6002C Advanced Health Assessment (4). Refinement of health assessment skills fundamental to advanced nursing practice emphasizing critical thinking in advanced health assessments across the lifespan. Prerequisite: Basic Health Assessment

NGR 6123 Knowledge Development in Nursing Science (3). This course examines theory development, philosophical inquiry, and ways of organizing nursing knowledge. Attention is directed to inquiry as grounded in languages and cultures. Prerequisite: Departmental permission.

NGR 6172 Pharmacology and Pharmacotherapeutics in Advanced Nursing Practice (3). Knowledge and skills to provide pharmacological management of client's common health problems in a safe, high quality, cost-effective manner. Prerequisites: Graduate standing and departmental permit.

NGR 6201C Advanced Adult-Gerontology Nursing I (3). Study of Advanced Adult Practice Nursing and specialization, expansion and advancement of evidence-based knowledge and skills fundamental to the role of the Adult Nurse Practitioner in primary care. Prerequisites: NGR 5141, NGR 6172. Corequisite: NGR 6201L.

NGR 6201L* Advanced Adult-Gerontology Nursing Practice I (3). Clinical implementation of evidence-based knowledge and skills required of the advanced adult practice nurse in the prevention, diagnosis and management of acute health conditions in primary care. Corequisite: NGR 6201.

NGR 6202C* Advanced Adult-Gerontology Nursing II (3). Continuing development of evidence-based knowledge and skills fundamental to the adult nurse practitioner role in the care of clients experiencing chronic and multisystem illnesses. Prerequisite: NGR 6201C, NGR 6201L. Corequisite: NGR 6202L.

NGR 6202L* Advanced Adult-Gerontology Nursing Practice II (3). Clinical implementation of evidence-based knowledge and skills fundamental to the adult nurse practitioner role in the care of the client and family experiencing chronic, multisystem illness. Corequisite: NGR 6202.

NGR 6209 Clinical Decision Making in Advanced Adult-Gerontology Nursing (3). Critical analysis and application of the diagnostic and clinical decision making process in advanced adult-gerontology nursing practice (ANP). Prerequisites: NGR 6201, NGR 6201L, NGR 6202, NGR 6202L. Corequisite: NGR 6700L.

NGR 6301C Advanced Child Health Nursing I (3). Development of evidence-based and theoretical knowledge for the advanced pediatric nurse in health promotion, disease prevention and management of acute health conditions in primary care settings. Prerequisites: NGR 5141, and NGR 6172. Corequisite: NGR 6301L.

NGR 6301L* Advanced Child Health Nursing Practice I (3). Implementation of evidence-based knowledge and skills for the advanced pediatric nurse in health promotion,

disease prevention and management of acute health conditions in primary care settings. Corequisite: NGR 6301C.

NGR 6302 Advanced Child Health Nursing II (3). Continuing development of evidence-based knowledge and skills fundamental to the pediatric nurse practitioner role in the care of the client and family experiencing chronic, multisystem illness. Prerequisites: NGR 6301C, NGR 6301L. Corequisite: NGR 6302L.

NGR 6302L* Advanced Child Health Nursing Practice II (3). Application of evidenced-based knowledge and skills fundamental to the pediatric nurse practitioner role in the care of the client and family experiencing chronic, multisystem illness. Corequisite: NGR 6302.

NGR 6333 Conceptual Issues in Nursing Management of Developmental Disabilities (3). Study of developmental theories, concepts and research findings in context of nursing model. Problems relevant to nursing intervention are examined through critique of pertinent literature. Corequisites: Graduate standing and permission of the department.

NGR 6337 Clinical Decision Making in Advanced Child Health Nursing (3). Critical analysis of the clinical decision making process in advanced child nursing practice. Synthesis of learning from previous clinical courses. Prerequisites: NGR 6301C, NGR 6301L or NGR 6302, NGR 6302L.

NGR 6337L Role Synthesis in Advanced Child Health Nursing Practice (4). Capstone course synthesizing role functions of the Pediatric Advanced Practice Nurse with emphasis on professional practice issues and transition into the practice role. Prerequisites: NGR 6301C, NGR 6301L, NGR 6302, NGR 6302L.

NGR 6400 Chemistry and Physics of Anesthesiology Nursing (3). Detailed study of the chemical and physical principles which apply to physiology, pharmacology and anesthesia equipment. Emphasis is placed on biochemistry and physics of gases and vapors. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6404 Advanced Bioscience for Anesthesiology Nursing I (3). Course in human anatomy, physiology, and pathophysiology to include the effects of anesthesia on the cell, the circulatory system, and the respiratory system. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6405 Advanced Bioscience for Anesthesiology Nursing II (3). Study of the anatomy and physiology of the endocrine, excretory, and neurological systems. This will progress to the pathophysiology of these systems with emphasis on the application of anesthesia. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6407 Technology And Physics in Anesthesiology Nursing (3). Physics and technological concepts in the anesthesia management for the surgical patient in the peri-operative period across the lifespan. Prerequisite: Successful completion of semesters 1-2 of the DNP-NA Program

NGR 6421 Principles of Anesthesiology Nursing I (3). Introduction to the principles of anesthesia assessment, management and fundamentals skills in administering anesthesia to the surgical patient across the lifespan in the peri-operative period. Prerequisite: Successful completion of semesters 1-2 of the DNP-NA Program

NGR 6422 Principles of Anesthesiology Nursing II (3). Principles, application, administration, and management of obstetric and pediatric anesthesia for the surgical patient in the peri-operative period. Prerequisites: Successful completion of semesters 1-4 in the DNP-NA program

NGR 6423 Principles of Anesthesiology Nursing III (2). Principles of cardiothoracic anesthesia, preoperative assessment, pre, intra, and postoperative management, extra-corporeal circulation, cardiac assist devices, and pharmacological intervention. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6424 Principles of Anesthesiology Nursing IV (1). This course will emphasize the anesthetic management to all patients across the lifespan. A review of the body systems, pharmacology and technology as it relates to anesthesia.

NGR 6425 Advanced Principles of Anesthesiology Nursing I (2). Advanced principles for the assessment, administration, and anesthetic management of surgical populations across the lifespan in the perioperative period. Prerequisite: Successful completion of semesters 1-6 of the DNP-NA Program

NGR 6426 Advanced Principles of Anesthesiology Nursing II (2). Synthesis of advanced principles for the assessment, administration, and anesthetic management of surgical populations across the lifespan in the perioperative period. Prerequisite: Successful completion of semesters 1-7 of the DNP-NA Program

NGR 6431L Anesthesiology Nursing Clinical Residency I (1). Introduction to supervised clinical residency of anesthesiology nursing, fundamental to the anesthetic management of the surgical patient across the lifespan. Prerequisite: Successful completion of semesters 1-2 of the DNP-NA Program

NGR 6432L Anesthesiology Nursing Clinical Residency II (2). Supervised clinical residency for the beginning application of knowledge, skills and competencies fundamental to the anesthetic management for the surgical patient across the lifespan. Prerequisite: Successful completion of semesters 1-3 of the DNP-NA Program

NGR 6433L Anesthesiology Nursing Clinical Residency III (2). Supervised clinical residency for the application of knowledge, skills and competencies fundamental to the anesthetic management for the progressively advanced surgical cases across the lifespan. Prerequisite: Successful completion of Semester 1-4 of DNP-NA Program

NGR 6434L Anesthesiology Nursing Clinical Residency IV (3). Supervised clinical residency for the advanced application of knowledge, skills, and aptitude fundamental to anesthesiology nursing practice progressing to on-call experience. Prerequisite: Successful completion of semesters 1-5 of the DNP-NA Program

NGR 6435L Anesthesiology Nursing Clinical Residency V (3). Supervised clinical residency for the progressively independent application of knowledge and skills fundamental to anesthesiology nursing practice.

Prerequisite: Successful completion of semesters 1-6 of the DNP-NA Program

NGR 6435 Principles of Anesthesiology Nursing V (1). The course will emphasize the anesthetic management to all patients across the lifespan. A review of the body systems, pharmacology and technology as it relates to anesthesia. Prerequisite: NGR 6424 Corequisite: Graduate Nurse Anesthesiology Track

NGR 6436L Anesthesiology Nursing Clinical Residency VI (3). Supervised clinical residency for the independent application of knowledge and skills fundamental to anesthesiology nursing practice. Prerequisite: Successful completion of semesters 1-7 of the DNP-NA Program

NGR 6437L Anesthesiology Nursing Clinical Residency VII (3). Supervised clinical residency for the autonomous application of knowledge and skills fundamental to anesthesiology nursing practice. Prerequisite: Successful completion of semesters 1-8 of the DNP-NA Program

NGR 6441L Anesthesiology Nursing Simulation Practicum II (1). Application of knowledge and skills fundamental to advanced anesthesiology nursing practice in the care for the intermediate acuity patient; ultrasound guided regional anesthesia; and pain management. Corequisite: NGR 6432L.

NGR 6442L Anesthesiology Nursing Simulation Practicum III (1). Application of knowledge and skills fundamental to advanced anesthesiology nursing practice in the preparation, management and OB, pediatric, and cardio-vascular-thoracic anesthesia care. Corequisite: NGR 6433L.

NGR 6460 Pharmacology of Anesthesiology Nursing I (2). Pharmacology of drugs affecting the autonomic nervous system as well as anesthetic agents. Administration and doses of the drugs is included. Prerequisite: Graduate Anesthesiology Track.

NGR 6461 Pharmacology of Anesthesiology Nursing II (2). Course will study the uptake, distribution and biotransformation of anesthetics, including the advanced study of therapy in anesthesia of specialty areas and treatment of complications. Prerequisite: Graduate Anesthesiology Track.

NGR 6462 Pharmacology and Chemistry of Anesthesiology Nursing (3). Pharmacology of drugs affecting the chemical, biochemical, and physiologic effects of the autonomic nervous system. Prerequisite: Successful completion of semesters 1-2 of the DNP-NA Program

NGR 6463 Pharmacology and Chemistry of Anesthesiology Nursing II (3). Advanced pharmacology of drugs affecting the chemical, biochemical, and physiologic effects of anesthetic drugs for surgical patients across the lifespan. Prerequisite: Successful completion of semesters 1-2 of the DNP-NA Program

NGR 6490 Regional Anesthesia and Pain Management (2). Theoretical and clinical application in the administration and management of regional anesthesia incorporating acute and chronic pain management. Prerequisite: Graduate Nurse Anesthesiology.

NGR 6491 Advanced Anesthesiology Nursing Seminar (4). Synthesis of clinical and didactic course review in the anesthesia management of surgical populations in the perioperative period in preparation for the National Certification Exam. Prerequisite: Successful completion of semesters 1-8 of the DNP-NA Program

NGR 6492 Professional Aspects of Anesthesiology Nursing (2). This course explores: American Association of Nurse Anesthetists, Councils on Accreditation, Certification and Practice and Professional issues for the practice model of Anesthesiology in Nursing. Prerequisite: Graduate Nurse Anesthesiology Track.

NGR 6493 Technology in Anesthesiology Nursing (2). The use and care of anesthesia equipment (mechanical and electronic) are discussed. Computers and their uses in anesthesiology are also included. Prerequisite: Graduate Anesthesiology Track.

NGR 6494 Anesthesia for Special Populations I (3). Advanced, anatomy, physiology, and pathophysiology for the anesthetic management and considerations of surgical patients across the lifespan. Prerequisite: Successful completion of semesters 1-3 of the DNP-NA Program

NGR 6945 Anesthesia for Special Populations II (3). Advanced, anatomy, physiology, and pathophysiology for the anesthetic management and considerations of surgical patients across the lifespan. Prerequisite: Successful completion of semesters 1-5 of the DNP-NA Program

NGR 6497 Advanced Anesthesia Life Support (1). Advanced Anesthesia Life Support (AALS) is an advanced course that highlights the importance of team management of emergency anesthesia events, team dynamics and communication, systems of care.

NGR 6503 Advanced Psychiatric-Mental Health Nursing I (3). This course prepares students for advance practice roles in psychiatric mental health nursing. Scientific knowledge is developed for ARNPs seeking to care for clients across the lifespan. Prerequisite: Admission to the program. Corequisite: NGR 6503L.

NGR 6503L* Advanced Psychiatric-Mental Health Nursing Practice I (3). Management of psychiatric mental health disorders in time-limited and extended care therapies in collaboration with health care providers across delivery systems. Blends the ARNP/CNS. Corequisite: NGR 6503.

NGR 6504C Advanced Psychiatric-Mental Health Nursing II (3). Continued development of advanced practice nursing model in the psychiatric care of individuals, groups and families across settings and populations. Prerequisites: NGR 6503, NGR 6503L. Corequisite: NGR 6504L.

NGR 6504L* Advanced Psychiatric-Mental Health Nursing Practice II (3). Application of advanced practice nursing model with clients who have complex psychiatric problems or are at high risk. Collaborative process in therapy, consultation, and planned change. Corequisite: NGR 6504C.

NGR 6505L Role Synthesis in Advanced Psychiatric-Mental Health Nursing Practice (4). Advanced psychiatric/mental health nursing role with diverse population. Role developed through contractual

agreements with faculty and mentors. Prerequisites: NGR 6503, NGR 6503L, NGR 6504C, NGR 6504L.

NGR 6538 Psychopharmacology for Advanced Practice Nursing (3). Background for neurobiological pharmacologic, psychiatric, and age dynamic factor to advanced practice nurse prescribing of psychiatric medications. Prerequisite: Advance to Semester III in graduate program.

NGR 6560 Advanced Psychiatric Mental Health Clinical Decision Making (3). Apply knowledge gained during the curriculum to develop the role and skills of the FPMHNP. Identify opportunities for collaboration, consulting, and referral. Prerequisites: NGR 6503, NGR 6503L, NGR 6504C, NGR 6504L, NGR 6538.

NGR 6601C Advanced Family Health Nursing I (4). Study of Advanced Family Practice Nursing and specialization, expansion and advancement of evidence-based knowledge and skills fundamental to the role of the Family Nurse Practitioner in primary care. Prerequisites: NGR 6172, NGR 5141. Corequisite: NGR 6601L.

NGR 6601L Advanced Family Health Nursing Practice I (4). Clinical implementation of evidence-based knowledge and skills required to the advanced family practice nurse in the prevention, diagnosis and management of acute health conditions in Primary Care. Corequisite: NGR 6601C.

NGR 6602C Advanced Family Health Nursing II (4). Continuing development of evidence-based knowledge and skills fundamental to the family nurse practitioner role in the care of clients and families experiencing chronic and multisystem illnesses. Prerequisites: NGR 6601C, NGR 6601L. Corequisite: NGR 6602L.

NGR 6602L Advanced Family Health Nursing Practice II (4). Clinical implementation of evidence-based knowledge and skills in the diagnosis and management of chronic and/or multi-system health conditions of clients and families in Primary Care. Corequisite: NGR 6602.

NGR 6619L Role Synthesis in Advanced Family Health Nursing Practice (4). Capstone course synthesizing role functions of the Family Advanced Practice Nurse with emphasis on professional practice issues and transition into the practice role. Prerequisites: NGR 6601C, NGR 6601L, NGR 6602C, NGR 6602L.

NGR 6700L* Role Synthesis in Advanced Adult-Gerontology Nursing Practice (4). Capstone course synthesizing role functions of the Adult Gerontology Advanced Practice Nurse. The emphasis is professional practice issues and transition into the advanced nursing practice role. Prerequisites: NGR 6201C, NGR 6201L, NGR 6202C, NGR 6202L.

NGR 6703 Role Development of the Advanced Practice Nurse (2). This course provides a forum for the graduate nursing student to analyze the roles of nurses in advanced practice. Prerequisite: Admission to Graduate Nursing

NGR 6708C Classroom Teaching Strategies for Nursing (3). Experience/seminar in classroom teaching for prospective nurse educators. Focuses on strategies for effective course planning, delivery, and evaluation in the classroom with diverse students. Prerequisites: NGR 6713, ADE 5386, ADE 6360.

NGR 6710* Role Synthesis in Nursing Education (4). Application of teaching/learning theories to nursing and selected teaching/learning strategies. Demonstration of various teaching strategies. Teaching practicum. Prerequisites: NGR 6713 and NGR 6202L, or NGR 6504L, or NGR 6302L or NGR 6602L.

NGR 6710L Clinical Specialty Practicum for the Nurse Educator (1). This course will supervise clinical practice activities related to nursing care of common health problems of a specific patient population. Prerequisite: Admission to Graduate Nursing Program, NGR 5141, NGR 6002C, NGR 6172.

NGR 6712C* Advanced Nursing Administration III (4). Intensive practicum applying leadership, decision-making, management, and administration theories and concepts under the guidance of a nurse executive preceptor and supervising faculty. Prerequisites: NGR 6726C, HSA 6176, PHC 6443, NGR 5723C, NGR 6724C.

NGR 6713 Curriculum Development in Nursing (3). Curriculum theory and its application in nursing education. Curriculum construction, implementation, and evaluation are discussed from theoretical, philosophical, historical, and current perspectives. Prerequisites: Graduate standing and departmental permission, NGR 5110.

NGR 6714C Clinical Teaching Strategies for Nursing (3). Experience seminar in clinical teaching. Application of research-based literature and best practices in the development/implementation/evaluation of clinical education for nursing students. Prerequisites: NGR 6713, ADE 5386.

NGR 6715 Instructional Technology in Nursing and Health Sciences (3). Provides advanced technological knowledge, skills, and opportunity to develop strategies using technology to improve and enhance student learning in variety of settings. Prerequisites: NGR 6713, ADE 5386.

NGR 6718 Testing and Evaluation in Nursing Education (3). Development of competency in concepts and measures of evaluation in nursing education. Prerequisite: Admission to the Certificate in Nursing Education.

NGR 6724C Advanced Nursing Administration II (4). Discusses financial issues surrounding nursing and the development and refinement of budgeting skills. Included are the nurse as entrepreneur, marketing, budgets and computers in financial management. Prerequisite: NGR 5723C (Adv. Nsg. Adm. I). Corequisite: HSA 6176.

NGR 6725 Issues and Strategies of Nursing Administration (3). Analysis of issues, principles, and concepts of nursing administration. Includes synthesis of behavioral and organizational theories with institutional goals in formulation of administrative strategies. Prerequisites: Graduate standing and departmental permission.

NGR 6726C Nursing Management and Continuous Quality Improvement (3). Role of nurse managers in developing and implementing continuous quality-improvement programs; implications of such programs on health care delivery. Includes role of middle management in personnel development and promoting nursing research in the clinical arena. Corequisites: NGR 6202L, or NGR 6504L, or NGR 6302L.

NGR 6743 Advanced Practice Nursing Clinical Education Seminar (1). This course provides the Advanced Practice Nursing (APN) student with the necessary foundational knowledge and skills known contribute to the successful transition of APN students from the classroom to the community-based clinical practicum environment. Prerequisites: Acceptance in one of the advanced practice nursing programs (AGNP, FNP, PNP, PMHNP) and successful completion of all pre-clinical core courses.

NGR 6748 Clinical Decision Making in Advanced Family Nursing Practice (3). Critical analysis of the clinical decision making process in advanced family nursing practice. Synthesis of learning from previous clinical courses. Corequisite: NGR 6619L.

NGR 6800 Advanced Nursing Research Methods I: Design and Sampling (3). The first course in a 2-course sequence on the design and conduct of nursing research focuses on the conceptual and empirical basis, design, sampling, and ethical conduct of nursing research. Prerequisite: Departmental Permission.

NGR 6801 Advanced Nursing Research Methods II: Measurement and Dissemination (3). The second course in a 2-course sequence on the design and conduct of nursing research focuses on measurement in nursing research, data management and analysis, and dissemination of findings. Prerequisite: NGR 6800.

NGR 6812 Master's Research (3). Refinement of research proposals focusing on methodology and pilot study. Hands-on experience on computerized data analysis. Prerequisites: HSC 6910 or NGR 5810.

NGR 6815 Qualitative Methods (3). Critical issues, theoretical and practical applications for conducting qualitative research explored as they relate to health, social service and public administration environments. Prerequisites: PHC 6706 or NGR 5810. Corequisite: NGR 6123.

NGR 6850 Empirical Evidence for Clinical Research and Practice I (3). This course is focused on basic empirical evaluation procedures -- categorical analysis, comparison of means, correlations -- for clinical research and evidence-based practice.

NGR 6851 Empirical Evidence for Clinical Research and Practice II (3). This course is focused on advanced empirical evaluation procedures -- linear regression, structural equation modeling overview, power analysis -- for clinical research and evidence-based practice. Prerequisites: NGR 6850 or equivalent.

NGR 6857 Empirical Evidence for Clinical Research and Practice III (3). This course is focused on complex empirical evaluation procedures -- MANOVA, logistic regression, missed methods, power analysis -- for clinical research and evidence-based practice. Prerequisites: NGR 6851 or equivalent.

NGR 6910C Research Project (3). Focus is on the development of competencies in scientific inquiry. Competencies are achieved through participation in ongoing research projects and a written report of the experience. Prerequisites: PHC 6091 or NGR 5810, NGR 5110.

NGR 6917 Grantsmanship I (3). The first course in a 3-course series on development and funding of programs of research focuses on successful research programs, planning a research trajectory, and obtaining predoctoral funding. Prerequisite: Departmental permission.

NGR 6918 Grantsmanship II (3). The second course in a 3-course series on development and funding of programs of research focuses on refinement of student trajectories, and grantsmanship for small research grant funding. Prerequisite: Departmental permission.

NGR 6939C NSG Management of At-Risk Populations (6). Intensive study of the advanced nursing management of at-risk populations, focusing on the elderly, persons with HIV/AIDS, survivors of domestic violence, substance abusers, and uninsured persons. Prerequisites: Departmental permit. Corequisites: NGR 6601L/NGR 6201L.

NGR 6941L Anesthesiology Nursing Simulation Practicum I (1). Application of knowledge and skills fundamental to basic anesthesiology nursing practice emphasizing preparation, assessment, positioning, fluid and airway management, and basic anesthesia care. Corequisite: NGR 6431L.

NGR 6970 Master's Thesis I (3). Refinement of research proposals focusing on methodology and pilot study. Hands-on experience on computerized data analysis. Completion of a research project for non-thesis students. Prerequisite: NGR 5810. Corequisites: NGR 6202L or NGR 6504L or NGR 6302L.

NGR 6971 Master's Thesis II (3). Implementation through completion of student's research thesis proposal. Prerequisite: NGR 6970.

NGR 7121 Scientific and Theoretical Foundations for Advanced Nursing Practice (3). This course examines the scientific underpinnings, theoretical models, and the ways of organizing nursing knowledge for advanced nursing practice.

NGR 7716 Fundamentals of Clinical Education (2). Fundamental principles of clinical education and teaching of adult learners in the healthcare professions. Emphasis is on in-service education, clinical precepting, and simulation-based instruction.

NGR 7733 Organizational Dynamics of Health Systems (3). This course will explore and analyze the role of the DNP as a systems leader and change agent for the creation, implementation, and evaluation of care delivery models within health care systems. Prerequisite: Admission to any track in the Advanced Practice Nursing Program.

NGR 7736 Academic Health Care and Political Systems: Function, Structure Leadership and Survival. (3). Analyzes purpose, structure, function, challenges, politics of academic, health care and political systems. Examines leadership roles, strategies for change and dealing with organizational politics. Departmental permission.

NGR 7769 Patient Safety and Quality Improvement in Healthcare (3). Principles and practices for patient safety and quality improvement. Focus on technologies, evidence based practices and high-performance teams. Emphasize safety and QI strategies for DNP practice.

NGR 7830 Research in Health Care for Multicultural Diverse and Vulnerable Populations (3). The course focuses on research issues with multicultural, diverse, and vulnerable populations. Prerequisite: Departmental permission.

NGR 7853 Translational Research (3). Critique and application of research to support improved models of care delivery using evidence-based practice.

NGR 7854 Analytical Methods for Evidence-Based Clinical Practice (3). Focus on appraisal of evidence to answer clinical research questions, including evaluation of empirical research, systematic reviews, quality improvement and evaluation of practice changes. Prerequisites: Undergraduate statistics and research courses.

NGR 7871 Healthcare Informatics (3). This course is designed to prepare students to critically analyze, develop, implement, and evaluate healthcare information systems/technology within clinical and/or academic settings. Prerequisite: Admission to any track in the Advanced Practice Nursing Program.

NGR 7873 Accessing, Managing and Packaging Information (3). Focuses on finding, obtaining, evaluating, managing, and disseminating information from the internet and other sources, and packaging information to convey a message and maximize the impact using current technology. Prerequisite: Departmental permission.

NGR 7891 Healthcare Finance and Economics in Advanced Clinical Practice (3). This course provides foundational knowledge and understanding of health care economic trends, reimbursement issues, funding sources and related ethical and legal issues in Advanced Clinical Practice. Prerequisites: Enrollment in DNP degree plan or admission in other graduate program with permission.

NGR 7892L Health Policy Practicum (3). This course will examine the role of health policy at the federal, state, and local governmental levels and its impact on health care organizations and nursing delivery systems. Prerequisite: Admission to any track in the Advanced Practice Nursing Program.

NGR 7940C DNP Project I (4). First of a 3-course series providing the DNP resident with an immersive residency experience and mentored guidance undertaking the development, implementation and evaluation of a scholastic project.

NGR 7941C DNP Project II (4). Second of a 3-course series providing the DNP resident with an immersive residency experience and mentored guidance undertaking the development, implementation and evaluation of a scholastic project.

NGR 7942C DNP Project III (4). Third of a 3-course series providing the DNP resident with an immersive residency experience and mentored guidance undertaking the development, implementation and evaluation of a scholastic project.

NGR 7943 DNP Project Completion (1). This course will provide the DNP resident with continuous enrollment until the DNP Project Completion requirement is fulfilled. Prerequisites: NGR 7940C, NGR 7941C, NGR 7942C.

NGR 7980 Dissertation I (3-18). Provides an overview of the dissertation process within framework of completing the dissertation. Prerequisite: Admission to candidacy.

NGR 7982 Candidacy Examination (3-9). The candidacy examination includes the successful completion of 4 written papers and an oral defense. This course is designed to assist students to prepare their papers for the candidacy examination. Prerequisite: This course must be taken during the last semester of coursework and/or after completion of required coursework as presented in student's plan of study.

NSG 6495 Anesthesia for Special Populations II (3). Advanced, anatomy, physiology, and pathophysiology for the anesthetic management and considerations of surgical patients across the lifespan. Prerequisite: Successful completion of semesters 1-5 of the DNP-NA Program

OTH 5002 Occupation and Health (3). Concepts of purposeful activities, occupation, and health will be explored in relation to self and the OT profession.

OTH 5011 Foundations of Occupational Therapy Practice (3). The theoretical foundations of occupational therapy and issues affecting professional practice.

OTH 5162 Therapeutic Approaches in Occupational Therapy (2). Through development of an understanding of the components and nuances of human occupation, students will develop skills needed to promote optimal performance through simulation and adaptation of life tasks.

OTH 5162L Therapeutic Approaches in Occupational Therapy - Lab (1). Emphasis on analysis of activities and the integration of therapeutic activities and their physical, emotional, cognitive, and sociocultural implications for occupational performance. Prerequisite: Admission to graduate program. Corequisite: OTH 5162.

OTH 5195 Occupational Therapy Job Modification (3). Analysis and adaptation of client's workplace for the disabled. Prerequisites: Admission to program or permission of the instructor (occasional elective).

OTH 5202 Occupational Development: Infancy Throughout Adolescence (3). Occupation during infancy, childhood, and adolescence. Includes social, cultural, and environmental factors on occupational competence. Corequisite: OTH 5202L

OTH 5202L Occupational Development: Infancy Through Adolescence Lab (1). Laboratory to accompany OTH 5202, Occupational Development Throughout the Life Span. Corequisite: OTH 5202.

OTH 5203 Occupational Development: Adulthood and Aging (3). Exploration of occupational development from young adulthood through the geriatric years.

OTH 5213 Pediatric Seminar: School Based Occupational Therapy (3). Course designed to provide students with necessary skills and specific knowledge to practice occupational therapy effectively in the educational setting. Prerequisite: Admission to the program.

OTH 5214 Occupational Therapist Role in Family Centered Care (3). Course designed to orient O.T. students to family-centered care issues, such as legislation, cultural issues, family systems and

empowerment strategies, in order to prepare them for clinical practice. Prerequisite: Permission of the instructor.

OTH 5217 Occupational Engagement Throughout the Continuum of Care (2). Occupational therapy assessment and intervention for individuals with specific health-related conditions within the context of diverse clinical practice settings is examined. Prerequisites: Admission to the program; OTH 5414: OTH 5414L. Corequisite: OTH 5217L

OTH 5217L Occupational Engagement Throughout the Continuum of Care Lab (1). Laboratory emphasizing occupational therapy assessment and intervention for specific health-related conditions within the context of diverse clinical settings. Prerequisites: Admission to the program: OTH 5414: OTH 5414L. Corequisites: OTH 5217

OTH 5224 Conditions Affecting Occupational Performance (3). Focuses on chronic health conditions and their impact on an individual's physical, cognitive, psychological, and social capabilities as mediators of occupational performance. Prerequisite: Admissions to the program.

OTH 5280 Role of Environment in Occupational Therapy (3). Assessing the influence of environmental factors on OT practice in specific field settings. Prerequisite: Admission to program.

OTH 5301 Adaptation of Human Occupation and Environment for Psychosocial Practice I (2). Designed to prepare the student with the tools and knowledge needed for clinical reasoning in the selection of assessment and treatment of individuals with cognitive and neuropsychiatric disorders. Prerequisite: Admission to graduate program. Corequisite: OTH 5301L.

OTH 5301L Adaptation of Human Occupation and Environment for Psychosocial Practice I Lab (1). Administration of assessments and treatment planning for individuals with cognitive and neuropsychiatric disorders. Prerequisite: Admission to Graduate Program. Corequisite: OTH 5301.

OTH 5324 Clinical Intervention for Persons with Neuropsychiatric & Cognitive Disorders (4). Develops clinical reasoning abilities in the selection of assessment and treatment strategies for individuals with cognitive and neuropsychiatric disorders.

OTH 5326 Psychiatric O.T.: Contemporary Theory and Practice (3). Examination of contemporary knowledge relevant to the theory and practice of O.T. in psychiatry. Prerequisites: Admission to Program or permission of the instructor.

OTH 5345 Occupational Therapy Program Development in Psychiatry (3). Seminar discussion and practical experience in OT programming in psychiatry. Prerequisites: Admission to program or permission of the instructor.

OTH 5360 Global Social Justice Issues in Health Care (3). An examination of relevant social justice related theories for health professionals leading to an understanding of how therapists can empower persons with disabilities to navigate the health system.

OTH 5405C Analysis of Therapeutic Procedures in Physical Disabilities (3). A lecture/lab course designed to introduce advanced students to theory based assessment problem identification and treatment for the physically disabled adult.

OTH 5406 Sensory Problems and Therapeutic Implications (3). An in-depth study of sensory problems and the implications for therapy. A variety of patient populations and clinical applications will be discussed. Prerequisites: Graduate standing or permission of the instructor (occasional elective).

OTH 5407 Theoretical Perspectives of Pain (3). Theoretical perspectives of pain: etiology, assessment, management and effects. Prerequisites: Admission to the program or permission of the instructor (occasional elective).

OTH 5414 Analysis & Adaptation in Human Motion (3). Presents anatomical, physiological, and biomechanical principles of human motion & biomechanical frame of reference in adaption with biomechanical problems. Corequisite: OTH 5414L

OTH 5414L Analysis & Adaptation in Human Motion Lab (1). Laboratory to accompany OTH 5414, Analysis & Adaptation of Human Motion in OT. Corequisite: OTH 5414

OTH 5427 Neurorehabilitation Approaches in OT (3). OT evaluation procedures and treatment planning for patients with CNS dysfunction. Corequisite: OTH 5427L.

OTH 5427L Neurorehabilitation Approaches in OT Lab (1). Laboratory to accompany OTH 5427, Neurorehabilitation approaches in OT. Corequisite: OTH 5427.

OTH 5430 Biomechanical and Rehabilitative Approaches in Occupational Therapy I (2). First of a two-part course. Application of occupational therapy evaluation and interventions for individuals with musculoskeletal disorders to prepare clients for the engagement in occupation. Prerequisites: Admission to graduate program, OTH 5414, OTH 5414L. Corequisite: OTH 5430L.

OTH 5430L Biomechanical and Rehabilitative Approaches in Occupational Therapy I - Lab (1). Experience in client evaluation and treatment planning. Includes a four-week Level I fieldwork experiences. Prerequisites: Admission to graduate program, OTH 5414, OTH 5414L. Corequisite: OTH 5430.

OTH 5438 Adult Neurorehabilitative Approaches in Occupational Therapy (3). Course covers evaluation and intervention principles of selected practice models as they relate to neuromotor disorders and their impact on the occupational performance of individuals. Prerequisite: OTH 6431, OTH 6431L, OTH 5217, OTH 5217L Corequisite: OTH 5438L.

OTH 5438L Adult Neurorehabilitative Approaches in Occupational Therapy - Lab (1). Students will apply occupational therapy evaluation and intervention principles to adults with neuromotor dysfunction. Prerequisite: OTH 6431, OTH 6431L, OTH 5217, OTH 5217L. Corequisite: OTH 5438.

OTH 5440 Treatment Approaches for the Neurologically Impaired (3). In depth instruction in approaches to the neurologically impaired patient.

Emphasis will be on dysfunction due to stroke or head injury. Prerequisites: OTH 4422 or equivalent.

OTH 5503 Current Occupational Therapy Practice in the Neonatal Intensive Care Unit (3). Theoretical framework and guidelines for assessment and intervention in a neonatal intensive care unit. Prerequisite: Majors only.

OTH 5505 Pediatric Health and Dysfunction in Occupational Therapy (3). Investigation of pediatric health and dysfunction issues encountered by Occupational Therapists. Corequisite: OTH 5505L.

OTH 5505L Pediatric Health and Dysfunction in OT Lab (1). Laboratory to accompany OTH 5505, Pediatric Health and Dysfunction in Occupational Therapy. Corequisite: OTH 5505.

OTH 5524 Occupation-based Intervention for Pediatric Populations (3). Course introduces developmental and neuromotor theories as they are applied to the pediatric populations and provide the student with frames of reference for pediatric occupational therapy practice. Prerequisite: Admission to graduate program. Corequisite: OTH 5524L.

OTH 5524L Occupation-based Intervention for Pediatric Populations Lab (1). Students will apply theoretical knowledge to clinical problems in occupational therapy evaluation and treatment of children with neuromotor and/or sensorimotor disorders. Prerequisite: Admission to graduate program. Corequisite: OTH 5524.

OTH 5600 Study of Gerontology as Related to Occupational Therapy (3). An overview of current issues in the practice of occupational therapy for the aged.

OTH 5603 Role of Occupational Therapist in Family Centered Care of Elderly (3). Issues related to care giving of elder and caregivers including autonomy, cultural influences and family systems. Prerequisite: Permission of the instructor.

OTH 5610 Foundations in Gerontology for Health Professions (3). Implication for health professions of the biological, cross-cultural, physiological, psychological, social, and societal contexts of aging.

OTH 5613 Interdisciplinary Approach to Aging (3). Issues related to roles of specific health team members and application of interdisciplinary approach to care of the elderly. Prerequisites: Aging course or work experience with elderly, permission of the instructor.

OTH 5630 OT Assessment of the Elderly (3). Study of assessment techniques appropriate for OT evaluation of the elderly. Prerequisite: Admission to program.

OTH 5725 Management and Community Based Practice in Occupational Therapy (3). Students will study administrative issues in OT and the promotion of community-based programing. Issues studied may include licensing, documentation, leadership, management, and supervision.

OTH 5751 Rehabilitation Seminar in Occupational Therapy (3). A seminar designed to gain an understanding of OT clinical practice areas in rehabilitation. Various clinicians will present their perspectives of organizational structure, populations served, evaluation and treatment approaches. Prerequisite: Permission of the instructor.

OTH 5760 Current Research in Occupational Therapy (3). Review of research methodology and statistical concepts in the clinical setting using examples of research in occupational therapy.

OTH 5764 Research in a Clinical Specialty (3). Participation in ongoing research of faculty members in clinical specialty area. Prerequisite: Permission of the instructor.

OTH 5765 Research in Clinical Practice (3). Students identify a research topic and questions based on observation of clinical problems during field visits.

OTH 5805 Service Learning in Health (3). Student's learning is centered on a community service experience which meets specific principles of service learning. Prerequisites: Admission to graduate study in OT. (Other graduate students or graduate certificate students in aging admitted by permission of the instructor.)

OTH 5843C Adaptation of Human Occupation and Environment for Psychosocial Practice II (3). This fieldwork course provides the student with the experience needed for occupational therapy assessment and treatment of individuals with cognitive and neuropsychiatric disorders. Prerequisites: OTH 5301 and OTH 5301L.

OTH 5845 Level II Fieldwork I (6-12). Three-month internship in an approved setting. Prerequisite: Completion of didactic coursework.

OTH 5846 Level II Fieldwork II (6-12). Three-month internship in an approved setting. Prerequisite: Completion of didactic coursework.

OTH 5921L Integrative Seminar I (2). This course is designed to introduce students to the integrative process, develop strategies for learning and academic success and integrate concepts related to foundations of occupational therapy. Prerequisite: Admission to graduate program.

OTH 5922L Integrative Seminar II (2). This course is designed to serve as a capstone experience in the integrative process. Possibilities for practice will be explored and students will prepare for the role transition to a clinician. Prerequisite: OTH 5921L.

OTH 5934 Evaluation and Treatment of Hand Dysfunction (3). Seminar in current issues related to the assessment and treatment of common injuries of the hand (occasional elective).

OTH 5938 O.T. Theoretical Perspectives in Health Therapy (3). This seminar course is designed to examine the OT's role in the prevention of both physical and mental diseases. It will demonstrate and discuss how OT foundational underpinnings provide the tools therapists need to guide patients and clients toward lifestyle behaviors which can prevent or delay disease onset and foster functional adaptation. Prerequisite: Permission of the instructor.

OTH 6009 Current Issues and Theories of Occupational Therapy (3). Exploration of current issues and theories in occupational therapy leading to development of student's theoretical reference for practice. Prerequisite: Admission to the program.

OTH 6106 The Role of Occupational Therapy and Assistive Technology (3). This course provides the

student with in-depth information about assessment for AT and recommendation of appropriate equipment.

OTH 6195 Assistive Technology and the Environment (2). Introduction of assistive technology devices and environmental modifications that enable and enhance participation in meaningful occupations for persons with disabilities. Prerequisites: Admission to the OT program. Corequisites: OTH 6195L

OTH 6195L Assistive Technology and the Environment Lab (1). Lab provides hands-on activities with assistive technology devices and environmental modifications that enable and enhance participation in meaningful occupations for persons with disabilities. Prerequisites: Admission to the OT program. Corequisites: OTH 6195

OTH 6215 Advanced OT Intervention Strategies (3). Principles and characteristics of treatment regimens designed to enhance the study of treatment effectiveness. Emphasis on application of activity appropriate for student's clinical concentration. Prerequisite: Admission to program. (F)

OTH 6265 Measurement and Assessment in Occupational Therapy (3). Measurement concepts and practices used in occupational therapy evaluation. Prerequisites: Admission to program or permission of the instructor.

OTH 6281 Cultural, Global, and Environmental Issues in Occupational Therapy (3). Exploration to the cultural, socioeconomic, and ethnic variables that impact occupational therapy interventions. Prerequisite: Admission to graduate program.

OTH 6431 Biomechanical and Rehabilitative Approaches in Occupational Therapy II (2). Using the biomechanical and rehabilitative practice models, students will design appropriate occupational therapy interventions for individuals with musculoskeletal and connective tissue disorders. Prerequisites: OTH 5430, OTH 5430L. Corequisite: OTH 6431L.

OTH 6431L Biomechanical and Rehabilitative Approaches in Occupational Therapy II Lab (1). Lab will provide students with the hands-on experience needed to evaluate and design occupational therapy intervention plans for individuals with musculoskeletal disorders. Prerequisites: OTH 5430, OTH 5430L. Corequisite: OTH 6431.

OTH 6507 Occupational Therapy for Occupationally Dysfunctional Children & Adolescents (3). Exploration of factors leading to successful adaptation to occupational roles, are explored with particular emphasis on the relationship between these factors and Occupational Therapy theory. Prerequisite: Permission of the instructor.

OTH 6538 Advanced Methods in Pediatric Assessment (3). Advanced applications of theory and research in the area of pediatric occupational therapy assessment. Skills in neonatal, neurodevelopmental, occupational behavior, and computer-assisted methods.

OTH 6548 Advanced Methods in Pediatric Occupational Therapy (3). Advanced application of theory and research in occupational therapy. Includes neurodevelopmental treatment approaches, neonates through adolescents. Prerequisite: OTH 6538.

OTH 6706 Leadership & Management in Occupational Therapy (3). Study of leadership and administrative issues in OT in relation to licensing, certification, documentation, supervision, and professional roles.

OTH 6772 Evidence Based Practice and Critical Appraisal (3). An in-depth investigation of the tools and resources for systematically locating and reviewing research evidence.

OTH 6937 ADA Workplace Accommodations of Persons with Disabilities (3). Interdisciplinary course designed to bring together students of both rehabilitation and business/management disciplines to develop strategies to implement the Title I-Workplace provision of the Americans with Disabilities Act (ADA).

OTH 6948 Continuing Clinical Competence for Occupational Therapists (3). Design, execution, and presentation of a major Occupational Therapy project.

OTH 6972 Master's Project Development (3). Development and planning of Master's Project. Prerequisites: OTH 5760, OTH 6772.

OTH 6973 Master's Project Implementation (3). Implementation and completion of the Master's Project. Prerequisite: OTH 6972.

PET 5716 Analysis and Observation of Teaching in Physical Education (3). This course analyzes the teaching-learning process in physical education. The emphasis is on systematic observation instruments and guidelines for systematic development of instructional skills. (F)

PET 5935 Special Topics in Athletic Training (1-3). This course presents current trends and professional issues in Athletic Training.

PET 6406L Physical Assessment, Measurement, and Evaluation Workshop (1-3). The workshop will provide the student with a working knowledge and basic theory in physical assessment, measurement, and evaluation laboratory teaching and develop skills associated with each. Prerequisite: Permission of instructor.

PHT 5017 Technology and Communication Management for Physical Therapists (3). This course integrates technology, research and education for physical therapists. The course consists of practical projects using the Internet, software applications, and web-based applications.

PHT 5027 Clinical Education Seminar (1). This course is designed to address prerequisite clinical education issues that historically contribute to the overall success in the clinical internships. Topics range from use of the evaluation tool to taxonomies of learning. Prerequisites: Admission to Professional PT Curriculum or permission of department.

PHT 5045 Applied Educational Theory in Physical Therapy (3). The application of teaching and learning principles to Physical Therapy patient education, student clinical education, and continuing education. A variety of teaching methodologies will be practiced by participants. Prerequisites: Admission to PT Professional Program or permission of department.

PHT 5070 Principles of Diagnostic Imaging (1). This course covers the basic physics of medical imaging and

provides an overview of various diagnostic imaging tools such as X-rays, Scans, MRI, Ultrasound with emphasis on the musculoskeletal system. Corequisites: PHT 5371 and PHT 5174.

PHT 5174 Analysis of Movement and Function (3). The course is designed to give physical and/or occupational therapy students the cognitive skills necessary to analyze human movement in the context of physical therapy practice. Prerequisites: Admission to PT Professional Program or permission of department. Corequisite: PHT 5174L.

PHT 5174L Analysis of Movement and Function Lab (1). The course is designed to give physical and occupational therapy students the psychomotor skills necessary to analyze human movement in the context of PT practice. Prerequisites: Admission to PT Professional Program or permission of department. Corequisite: PHT 5174.

PHT 5180 Musculoskeletal Diagnosis and Management I (3). This course is designed to prepare the student in the area of physical therapy related musculoskeletal diagnosis and treatment with focus on upper extremities. Prerequisites: Admission to PT Professional Program or permission of department. Corequisite: PHT 5180L.

PHT 5180L Musculoskeletal Diagnosis and Management I Lab (1). This is the laboratory course designed to prepare students for evaluating and treating physical therapy related musculoskeletal diagnosis. Prerequisites: Admission to PT Professional Program or permission of department. Corequisite: PHT 5180.

PHT 5181 Musculoskeletal Diagnosis and Management II (3). This is designed to prepare the student in the area of Physical Therapy related musculoskeletal diagnosis treatment with focus on lower extremities. Prerequisites: PHT 5180, PHT 5180L, PHT 6341, PHT 6341L. Corequisite: PHT 5181L.

PHT 5181L Musculoskeletal Diagnosis and Management II Lab (1). This is a laboratory course designed to prepare students for evaluating and treating physical therapy related musculoskeletal diagnosis. Prerequisites: PHT 5180, PHT 5180L, PHT 6341, PHT 6341L. Corequisite: PHT 5181.

PHT 5182 Musculoskeletal Diagnosis and Management III (3). This course is designed to prepare the student in the area of Physical Therapy related musculoskeletal diagnosis and treatment with focus on the spine. Prerequisites: PHT 5181 and PHT 5181L. Corequisite: PHT 5182L.

PHT 5182L Musculoskeletal Diagnosis and Management III Lab (1). This is a laboratory course designed to prepare students for evaluating and treating physical therapy related musculoskeletal diagnosis specific to the spine. Prerequisites: PHT 5181 and PHT 5181L. Corequisite: PHT 5182.

PHT 5205 Clinical Skills (3). Utilizing a seminar format, this course will provide the student with the theory and practice of necessary and basic physical therapy clinical skills. Prerequisites: Admission to the PT Program or permission of instructor. Corequisites: PHT 5174 and PHT 5174L.

PHT 5205L Clinical Skills Lab (1). Utilizing a laboratory format, this course will provide the student with the theory and practice of necessary and basic physical therapy clinical skills. Prerequisites: Admission to the PT Program or permission of instructor. Corequisite: PHT 5205, Clinical Skills.

PHT 5218 Physical Agent Modalities for Non-Physical Therapy Majors (1). The course is an introduction to physical agent modalities in rehabilitation for students and practitioners of occupational therapy, athletic training, massage therapy or other health care professions.

PHT 5244C Principles of Therapeutic Exercise (3). This course will discuss principles of therapeutic exercise as related to a comprehensive physical therapy plan of care for individuals across the lifespan. Prerequisite: Admission into the Physical Therapy Program.

PHT 5303 Principles of Pathophysiology in Physical Therapy (3). This pathology course is designed for physical therapy students. It deals with the pathophysiologic processes that affect specific tissues and organ systems of the body. Prerequisite: PHT 5174. Corequisites: PHT 5205, PHT 5181.

PHT 5323C Pediatric Physical Therapy (3). Entry-level, skills and competencies in pediatrics, including motor development; diagnosis, examination and intervention; and family, health education, and service delivery issues. Prerequisites: Admission into the graduate program in PT or permission on instructor.

PHT 5328 Advanced Pediatric Physical Therapy Assessment (3). Analysis of assessment tools in relation to treatment. Competence in administration of appropriate tools will be required at end of course. Prerequisites: Either STA 5126 or STA 6166 and permission of the instructor.

PHT 5335 Physical Therapy in Obstetrics/Gynecology (3). This course will explore the role of the therapist in the field of obstetrics and provide an introduction to gynecological issues. Emphasis will be on evaluation and treatment of the OB client. Prerequisite: Permission of the instructor.

PHT 5336 Theories in Cardiopulmonary Rehabilitation (3). This course is designed to provide students with applied theory in the clinical and physical therapy management of medical and surgical cardiac and respiratory conditions. Prerequisite: Permission of the instructor.

PHT 5373 Advanced Therapy Assessment of the Elderly (3). The study of assessment tools used in geriatric rehabilitation in relation to appropriate intervention strategies and research findings. Prerequisites: Appropriate adult motor development course/permission of major advisor.

PHT 5375 Foundations in Gerontology for Health Professions (3). Implications for health professions of the biological, cross-cultural, physiological, psychological, social, and societal contexts of aging.

PHT 5504 Service Learning in Physical Therapy (1-3). The course includes a brief introduction to community service in Physical Therapy, an opportunity to assist professionals to deliver community-based physical therapy services, and the preparation of case studies based on the

students' experiences. Prerequisites: Advanced standing in the undergraduate PT program or admission to Graduate PT program.

PHT 5505C Physical Therapy Constructs in Health and Wellness (3). Covers elements of Physical Therapy related prevention, screening, health and wellness for individuals, schools, and communities.

PHT 5515 Therapeutic Services for Physically Impaired and Mentally Retarded Students (3). Lecture, lab, and group work to develop skills of education and therapy professionals for implementation with disabled children in schools. Prerequisite: Permission of major advisor or instructor.

PHT 5523 Dimensions of Professional Practice Seminar I (3). This is the first in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: Admission to Professional PT Curriculum.

PHT 5524 Dimensions of Professional Practice Seminar II (3). This is the second in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: PHT 5523.

PHT 5525 Dimensions of Professional Practice Seminar III (3). This is the third in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: PHT 5524.

PHT 5639 Physical Therapy Administrative Techniques and Methods (3). Provides an in-depth view of the health care industry and its relationship to the P.T. profession. Management techniques in all areas will be presented with emphasis on planning and financial management.

PHT 5805 Clinical Internship I (3). This is the first in a sequence of 4 supervised full-time clinical internships designed to offer the student experiences in patient evaluation and care with emphasis on musculoskeletal dysfunction. Prerequisite: PHT 5960.

PHT 5815 Clerkship in Physical Therapy (2). Two-week full-time clinical experience combined with independent study of question or issue in clinical Physical Therapy. Prerequisite: Permission of major advisor.

PHT 5823 Internship (3). Supervised, full-time clinical experience, designed to offer the student experience in patient evaluation and care, particularly in the areas of rehabilitation and neurorehabilitation.

PHT 5960 Comprehensive Exam I (1). This is the first of two comprehensive examinations that cover all previously completed coursework and is required for continued progression in the curriculum. Prerequisites: All Fall and Spring Semester Courses-Year I.

PHT 6009 Differential Diagnosis in Physical Therapy (3). This course is designed to enable the physical therapy student to engage in the diagnostic process to establish differential diagnoses for patients across the life span. Prerequisite: PHT 4300.

PHT 6125 Clinical Biomechanics (3). An introduction to temporal parameters, kinetics and kinematics of normal and pathological movement. Prerequisites: PHT 5182, PHT 5182L, PHT 6165C.

PHT 6127 Advanced Pathologic Movement Analysis (3). Explores the abnormal gait and movement patterns as they relate to pathologic states involving either the musculoskeletal or the neurologic system, or both. Prerequisite: Permission of major advisor.

PHT 6145 Motor Development: Adult Through Geriatrics (3). A study of motor development of the adult through old age. Application of developmental principles to physical therapy practice and research. Prerequisite: Permission of major advisor.

PHT 6163 Neurological Diagnosis and Management I (3). This is the first in a sequence of three (3) lecture courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 5960 or permission of instructor. Corequisite: PHT 6163L.

PHT 6163L Neurological Diagnosis and Management I Lab (1). This is the first in a sequence of three (3) laboratory courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 5960 or permission of instructor. Corequisite: PHT 6163.

PHT 6164 Neurological Diagnosis and Management II (3). This is the second in a sequence of three (3) lecture courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6163, PHT 6163L. Corequisite: PHT 6164L.

PHT 6164L Neurological Diagnosis and Management II Lab (1). This is the second in a sequence of three (3) laboratory courses designed to prepare the student for psychomotor competencies in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6163, PHT 6163L. Corequisite: PHT 6164.

PHT 6165C Applied Clinical Neuroanatomy (3). Examines correlation of sites of pathology in the central and peripheral nervous systems with actual patients; their signs and symptoms, their regimen of treatment, and prognosis for rehabilitation. Prerequisites: Neuroanatomy and permission of major advisor.

PHT 6169 Neurological Diagnosis and Management III (3). This is the third in a sequence of three (3) lecture courses designed to prepare the student in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6164, PHT 6164L. Corequisite: PHT 6169L.

PHT 6169L Neurological Diagnosis and Management III Lab (1). This is the third in a sequence of three (3) laboratory courses designed to prepare the student for psychomotor competencies in the areas of physical therapy related neurological diagnosis and treatment. Prerequisites: PHT 6164, PHT 6164L. Corequisite: PHT 6169.

PHT 6237 Environments/Energy Expenditures of the Disabled (3). Analysis of the home and work settings in relation to various forms of physical disabilities. Energy

expenditures pertaining to environmental factors as they pertain to physical therapy evaluation and treatment. Prerequisite: Permission of major advisor.

PHT 6239 Developmental Disabilities in Adulthood (3). A study of adults with developmental disabilities; including aspects of societal perspectives, political and public policy regarding the handicapped, and current theories in treatment of the handicapped adult population. Prerequisite: Permission of major advisor and instructor.

PHT 6325 Advanced Clinical Pediatric Physical Therapy (3). The study of theory, treatment and current clinical research in pediatric physical therapy practice. Prerequisites: Permission of major advisor and PHT 5320.

PHT 6326 Physical Therapy for At-Risk Infants (3). This course will explore current PT practice and research for at-risk infants in NICU, NCCU, and follow-up programs. Includes aspects of physiological and behavioral monitoring indicators for physical therapy intervention. Prerequisite: PT graduate students.

PHT 6341 Diagnosis and Management of Disease (3). Covers Physical Therapy implications of disease processes, conditions and systemic disorders throughout the lifespan. Prerequisite: All Fall Semester Courses-Year I. Corequisite: PHT 6341L.

PHT 6341L Diagnosis and Management of Disease Lab (1). The practicum portion of PHT 6341 that covers physical therapy intervention in disease processes, conditions, and systemic disorders throughout the life span. Prerequisite: All Fall Semester Courses-Year I. Corequisite: PHT 6341.

PHT 6353 Principles of Diagnostics and Pharmacology in Physical Therapy (3). Topics include interpretation of medical laboratory tests results, diagnostics imaging, and pharmacology with a focus on effects, side effects, and toxicity in relation to PT interventions. Prerequisites: PHT 5182, PHT 6381, PHT 6169, PHT 6341.

PHT 6365 Theories in Sports Physical Therapy (3). Study and exploration of relevant issues in sports physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6381 Diagnosis and Management of Cardiopulmonary Systems (3). This lecture course covers the elements of patient and client management provided by physical therapists with anticipated goals of preferred practice patterns in cardiopulmonary care. Prerequisites: PHT 5205 and PHT 5205L. Corequisite: PHT 6381L.

PHT 6381L Diagnosis and Management of Cardiopulmonary Systems Lab (1). This laboratory course covers the elements of patient and client management provided by physical therapists with anticipated goals of preferred practice patterns in cardiopulmonary care. Prerequisites: PHT 5205 and PHT 5205L. Corequisite: PHT 6381.

PHT 6403 Client-Centered Rehabilitation (3). Utilizes small and large group discussion, multimedia presentations, readings and projects to explore issues of communication, cultural diversity and client-centered rehabilitation.

PHT 6526 Dimensions of Professional Practice Seminar IV (3). This is the fourth in a sequence of four (4) courses designed to prepare the student in the areas of physical therapy related research, administration, education and professional issues. Prerequisite: PHT 5525.

PHT 6547C Case Management in Physical Therapy I (1). First in a series to introduce patient care management focusing on examination and treatment. Exams will include practice questions similar to the licensure examination. May include lab experience.

PHT 6548C Case Management in Physical Therapy II (1). Second in a series focusing on exam and treatment in the complex patient. Exams will include questions similar to licensure exam. May include lab and/or clinical experiences. Prerequisite: PHT 6547.

PHT 6549C Case Management in Physical Therapy III (1). Third in a series focusing on exam and treatment in complex patients with multiple co-morbidities. Exams will be similar to the licensure exam. May include lab experiences. Prerequisites: PHT 6547, PHT 6548C.

PHT 6552 Private Practice Seminar for Physical Therapists (3). This course analyzes various practice models and includes presentations from private practitioners and community business experts.

PHT 6625 Advanced Physical Therapy Clinical Research Methodologies and Design (3). Exploration of scientific method and theory as applied to clinical and experimental research in physical therapy; includes method of inquiry, techniques of data collection, organization, and interpretation. Prerequisites: STA 5126 or STA 6166 and permission of major advisor.

PHT 6705 Long Term Rehabilitation for Persons with Chronic Disease and Disability (3). Applying long term rehabilitation for persons with chronic disease and disability with focus on the continuum of fitness, health and rehabilitation throughout the life span.

PHT 6706 Information and Communication Technology in Rehabilitation (3). An introductory course that focuses on computer rehabilitation technology for clinical practices, research and education, and devices that assist the quality of patient activities. Prerequisite: Student should have a basic understanding of personal computers.

PHT 6714 Spinal Dysfunction I (Lower Back) (3). In-depth exploration of the evaluation and treatment of various lumbar spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6715 Spinal Dysfunction II (Upper Back) (3). In-depth exploration of the evaluation and treatment of various cervical spine dysfunctions. Prerequisite: Permission of major advisor.

PHT 6716 Theories in Orthopedic Physical Therapy (3). Study and exploration of relevant issues in orthopedic physical therapy. Focus on problem identification, investigation, analysis, and problem solving approaches. Prerequisite: Permission of major advisor.

PHT 6718 Theories in Neurorehabilitation (3). Examines theoretical bases of evaluation and treatment of the neuro-patient; includes exploration of the relationship

of motor control and motor learning to current neurologic rehabilitation. Prerequisite: Permission of major advisor.

PHT 6725C Extremity Evaluation and Rehabilitation (3). In-depth exploration, critical analysis, and investigation of joint and extremity dysfunctions.

PHT 6746C Complementary Therapies for Rehabilitation Professionals (3). Complementary PT will describe and explain how various complementary therapies will be introduced and incorporated into rehabilitation programs. Practical application and safety will be emphasized. Prerequisites: PHT 5205, PHT 5205L, PHT 5505.

PHT 6817 Clinical Internship II (3). This is the second in a sequence of 4 supervised full-time clinical internships designed to offer the student experience in patient evaluation and care with general medical and surgical clients. Prerequisites: PHT 5960, PHT 6164, PHT 6164L.

PHT 6824 Internship I (3). Supervised full-time clinical experience with emphasis on: evidence-based practice; clinical decision making; administration; educational activities; outcomes assessment; differential diagnosis; and consultation. Prerequisite: PHT 6009.

PHT 6825 Internship II (3). Continuation of PHT 6824, Internship I. Prerequisite: PHT 6824.

PHT 6826 Internship III (3). Continuation of PHT 6825, Internship II. Prerequisite: PHT 6825.

PHT 6827 Clinical Internship III (3). This is the third in a sequence of 4 supervised full-time clinical internships designed to offer the student experience in patient evaluation and care with the neurologically involved client. Prerequisite: PHT 6961.

PHT 6828 Clinical Internship IV (3). This is the final in a sequence of 4 supervised full-time clinical internships designed to offer the student experience in patient care in a specialty setting, including but not limited to pediatrics, SCIP, burns, etc. Prerequisite: PHT 6961.

PHT 6845 Resources and Skills for the PT/PI Student (3). This course focuses on the interdisciplinary team that works for the optimum educational benefit of the student. Therapists and teachers will learn and work collaboratively within this course. Corequisites: Graduate OT, PT, or Education students.

PHT 6905C Independent Study (1-3). Introduction to guided research and/or clinical practice. Course will fall in-line with DPT project and/or Case Management series. May include lab and/or clinical experiences. Course may be repeated.

PHT 6961 Comprehensive Exam II (1). The second comprehensive examination covering all previously completed coursework and is required for continued progression in the curriculum. Prerequisites: All Fall and Spring Semester Courses-Year II.

PHT 6970C DPT Project I (3). First in a series initiating students to the research process with faculty. Topics: Literature reviews, develop procedures & testing protocols, assessing reliability & validity and IRB submission.

PHT 6972C DPT Project II (3). Second in a series that will continue the research process with a faculty member. Topics: Continue developing procedures & protocols, and initiating data collection. Prerequisite: PHT 6970.

PHT 6973C DPT Project III (3). Final course in a series where students will continue the research process with a faculty member. Topics: Finalizing data collection, data reduction and analysis. Prerequisites: PHT 6970, PHT 6972C (DPT II).

SPA 5009C Normal Communication Development and Disorders (3). Advanced study of the processes of typical speech and language acquisition as the basis for understanding associated developmental speech and language disorders. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5012C Introduction to Communication Sciences and Disorders (3). Introduction to the processes of communication sciences and principles of identification, assessment, and treatment of speech and language disorders. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5035C Disorders of Hearing and Audiological Sciences (3). Principles and procedures involved in the identification and assessment of problems associated with the auditory mechanism, including hearing loss prevention and conservation of auditory functioning. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5051C Clinical Observation, Management, and Procedures in Communication Disorders (3). Study of the principles involved in therapeutic intervention of communication disorders in different clinical settings. Observation of assessment and treatment sessions is a requirement of the course. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5102C Advanced Human Anatomy and Physiology of Mechanisms of Communication (3). Advanced study of anatomy, physiology, and neurology mechanisms of speech and hearing. Includes system study of speech production and perception: respiration, phonation, articulation, audition. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders. Corequisite: SPA 5102L.

SPA 5102L Laboratory in Advanced Human Anatomy and Physiology of Mechanisms of Communication (1). Laboratory extension of SPA 5102C Advance Human Anatomy and Physiology of Mechanisms of Communication to accompany this course. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders. Corequisite: SPA 5102C.

SPA 5107 Neurological Bases of Communication (3). The anatomical and physiological aspects of the central and peripheral nervous system as they pertain to communication acquisition and disorders. Prerequisite: Permission of the instructor.

SPA 5113C Advanced Applied Phonetics (3). Advanced study of principles of phonetics and phonetic transcription via International Phonetic Alphabet. Physiological descriptions and classification of speech sounds. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5150C Acoustics of the Sciences of Speech and Hearing (3). Advanced study of the communication sciences associated with the process of speech and hearing, including speech perception and production, speech and hearing physiology, and acoustic phonetics. Prerequisite: Admission to the Graduate Certificate in Communication Sciences and Disorders.

SPA 5204 Phonological Disorders (3). An examination of normal and deviant articulatory acquisition and behavior. Presentation of major theoretical orientations and the therapeutic principles based upon them. Prerequisite: Permission of the instructor.

SPA 5216 Vocal and Velopharyngeal Disorders (3). Study of etiology, symptoms, and treatment strategies for a variety of vocal and craniofacial disorders. Prerequisite: Permission of the instructor.

SPA 5225 Fluency Disorders (3). Study of etiology, symptoms, and treatment strategies for fluency disorders.

SPA 5262C Linguistics for Speech-Language Pathology (3). Study of linguistic theory as applicable to speech-language development and disorders relative to speech-language pathology. Emphasis is on description and analysis of major components of language.

SPA 5402 Language Learning in Preschool Children (3). Presentation of the linguistic development in children ages 0-5 years as well as the delays and disorders associated with language. Prerequisite: Permission of the instructor.

SPA 5403 Language Learning in School-Aged Children (3). Overview and evaluation of the language skills of preschool and school aged children including metalinguistic and discourse development. Prerequisite: SPA 5402 and permission of the instructor.

SPA 5500 Basic Clinical Practicum (3). Supervised practice with representative speech and language problems in the school settings. Prerequisites: SPA 5204, SPA 5402, SPA 5403, SPA 5553.

SPA 5502 Intermediate Clinical Practicum (3). Supervised practice with communication problems in outpatient settings, private practices, rehabilitation. Prerequisite: SPA 5500.

SPA 5553 Differential Diagnosis of Communicative Disorders (3). The administration, evaluation and reporting of diagnostic tests and procedures used in assessment of speech and language disorders. Prerequisite: Permission of the instructor.

SPA 5805 Research Methodology in Communication Disorders (3). Research design, statistical analysis (descriptive and inferential) and dissemination of experimental data, with an emphasis on clinical research. Legal/ethical and cultural consideration in research design and implementation will also be addressed. Prerequisite: Permission of the instructor.

SPA 5935L Pre-Clinic Seminar (1). This course is designed to address the prerequisite practicum requirements to prepare students for clinical internship rotations. Prerequisite: Acceptance into the speech pathology master's program (or by permission from the instructor).

SPA 6005 Assessment & Treatment of the Bilingual Child with Communication Disorders (3). Assessment and treatment of normal and atypical language development across cultures. Prerequisite: Permission of the instructor.

SPA 6232 Neuromotor Communication Disorders (3). Study of speech and communicative problems of neuromotorically-impaired children and adults with apraxia of speech, the dysarthrias, and other related motor speech disorders. SPA 5107 and Permission of the instructor.

SPA 6254 Adult Communication Disorders and Cognition (3). Relationship between cognition and language in typical aging and definition, appraisal, and treatment of communication disorders in dementia, traumatic brain injury, and right hemisphere brain-damage.

SPA 6322 Aural Habilitation and Rehabilitation (3). This course provides information and strategies for aural habilitation intervention with hearing impaired children. Includes techniques of speech reading, auditory training and language for the hearing impaired. The course is part of the Graduate Certificate in CSD and is an elective course in the Masters' in Speech-Language Pathology (if student has not completed an undergraduate course in aural rehabilitation or has not taken as part of the Graduate Certificate). Prerequisite: SPA 5035

SPA 6406 Dual Language Acquisition and Disorders (3). Development of normal and atypical language in speakers of more than one language. Prerequisite: Permission of the instructor.

SPA 6410 Aphasia and Related Disorders (3). Consideration of the neurological and psychological aspects of aphasia and related approaches are discussed and evaluated. Prerequisites: SPA 5107 and Permission of the instructor.

SPA 6479 Communications Disorders and Aging in a Bilingual Society (3). Survey of types and characteristics of bilingualism and normal and atypical speech and language changes associated with aging. Prerequisite: Permission of the instructor.

SPA 6505 Advanced Clinical Practicum (3). Supervised practice with severe communication problems in area hospitals and long term care facilities. Prerequisite: SPA 5502.

SPA 6559 Augmentative and Alternative Communication (3). Introduction to augmentative and alternative communication practices relative to individuals with severe speech, language, and/or communication deficits requiring AAC strategies or devices. Prerequisite: SPA 5107.

SPA 6565 Dysphagia (3). Information and training in the evaluation and treatment of swallowing disorders. Prerequisite: Permission of the instructor.

SPA 6930 Master's Project (1-6). This course provides the student with an opportunity to explore in-depth a specific topic of interest in speech pathology. Prerequisite: Permission of the instructor.

SPA 6938 Topics in Speech Pathology (1-3). This course is intended to give students information about topical issues in the field of Speech Language Pathology. Prerequisite: Permission of instructor.

SPA 6971 Master's Thesis (1-6). Supervised research on an original research project submitted in partial fulfillment of the Master's degree requirement. Prerequisite: Permission of the instructor.

*All students must provide evidence of personal professional liability insurance prior to registering for any clinical nursing courses.

Nicole Wertheim College of Nursing and Health Sciences

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Kutz, Matthew, Ph.D., ATC *(Lynn University) Clinical Professor, Athletic Training*

Maltseva, Tatayana, Ph.D., APRN, PMHNP-BC, *(Florida International University), Clinical Assistant Professor, Nursing*

Marrero, Yamile, JD, MPH, CSCS, *(Florida State University), Clinical Assistant Professor, Health Services Administration*

Martinez, Rodrigo, DAT, LAT, ATC, (*University of Idaho), Coordinator of Clinical Education and Clinical Assistant Professor, Athletic Training*

Mead, Jean, Ed.D., CCC-SLP, *(West Virginia University), Coordinator of Clinical Education and Clinical Assistant Professor, Communication Sciences & Disorders*

Medina, Angela, Ph.D., CCC-SLP, *(University of Louisiana at Lafayette), Assistant Professor, Communication Sciences & Disorders*

Miller, Ann, DNP, CRNA, APRN, *(University of New England) Interim Assistant Chair of Nurse Anesthesia and Clinical Associate Professor, Nurse Anesthesia Anesthesiology*

Miller, Audrey P., Ph.D., MSN Ed, APRN, PPCNP-BC, CPN, CNE, *(Barry University) Clinical Associate Professor, Nurse Educator Program Leader, Nursing*

Mojica, Rebecca, OTD, MS, OTR/L, *(Eastern Kentucky University), Clinical Assistant Professor, Occupational Therapy*

Muñecas, Teresa, DPT, Ed.D., PT, *(A.T. Still University), Director of Clinical Education and Clinical Assistant Professor, Physical Therapy*

Muñoz, Mariateresa, SLP.D, M.S., CCC-SLP, *(Nova Southeastern University), Clinical Assistant Professor, Communication Sciences & Disorders*

Newman-Giger, Joyce, Ed.D., APRN, BC, FAAN *(Ball State University) Professor, Nursing*

Nunez-Gaunaurd, Annabel, Ph.D., MSPT, PT, *(University of Miami) Assistant Professor, Physical Therapy*

Odai, Michelle, Ph.D., LAT, ATC, *(Florida International University), Chair, MSAT Program Director Clinical Associate Professor, Athletic Training*

Olafson, Elizabeth, Ph.D., MSN, RN, M.S.Ed., *(Florida Atlantic University), Clinical Assistant Professor, Nursing*

Olenick, Maria, Ph.D., RN, FNP, FAAN, *(Widener University), Associate Professor, Nursing*

Parchment, Yvonne, Ed.D., RN, CCRN, APRN, CNE,(*Florida International University), Retired Clinical Associate Professor, Nursing*

Paul-Ward, Amy, Ph.D., *(University of California Los Angeles), Associate Professor, Occupational Therapy*

Porter, Luz, Ph.D., RN, APRN, FAAN, *(New York University), Professor Emeritus, Nursing*

Ramos, Eliane, Ph.D., CCC-SLP, *(University of Massachusetts), Clinical Associate Professor, Communication Sciences & Disorders*

Richard, Lynne, Ph.D., OT/L, *(Rutgers University), Chair and Clinical Associate Professor, Occupational Therapy*

Roberts, Lisa, DPT, PT, CSCS, *(Nova Southeastern University), Clinical Assistant Professor, Physical Therapy*

Roche, Rosa, Ph.D., APRN, PPCNP-BC *(Florida International University), Interim Chair Graduate Nursing Dept (MSN), Clinical Associate Professor and Pediatric NP Program Leader, Nursing*

Rodriguez, Ana, OTD, MS, OTR/L, (*Chatham University), Clinical Assistant Professor, Occupational Therapy*

Rossi, Mark D., Ph.D., PT, MPT, CSCS, *(Texas Woman's University), Chair and Associate Professor, Physical Therapy*

Sherman, Dana, DNP, MSN, ANP-BC, FNP-BC., *(University of Alabama), Clinical Assistant Professor, Nursing*

Sherman, Deborah, Ph.D., APRN, ACHPN, FAAN, *(New York University), Professor, Nursing*

Sommer, Chelsea, Ph.D., CCC-SLP, *(University of Utah),Assistant Professor, Communication Sciences & Disorders*

Simon, Sharon, Ph.D., RN, *(Barry University), Clinical Assistant Professor, Nursing*

Strickland, Ora, Ph.D., DSc (Hon), RN, FAAN, *(University of North Carolina), Dean and Professor, Nursing*

Thomas, Amanda, DPT, PT, *(Florida International University), Clinical Assistant Professor, Physical Therapy*

Thomas, Tami L., Ph.D., RN, CPNP, FAANP, FAAN *Associate Dean of Research, PhD Program Director Professor and Dr. Herbert and Nicole Wertheim Endowed Chair in Prevention and Family Health,*

Nursing

Treminio, Ingris, OTD, OTR/L, *(Nova Southeastern University), Clinical Assistant Professor, Occupational Therapy*

Valdes, Jorge, DNP, CRNA, APRN, *(University of Miami), Chair of Nurse Anesthesia and Clinical Associate Professor, Nurse Anesthesia*

Vieira, Edgar, Ph.D., PT, MSc, *(University of Alberta), Associate Professor, Physical Therapy*

Williams, Ajaya, Ed.D., LAT, ATC *(Teachers College Columbia University) Clinical Assistant Professor, Athletic Training*

Yeung, Tina, PhD., MHA, *(University of Central Florida), Clinical Assistant Professor, Health Services Administration*

Young-Whiting, Chanadra, Ed.D., MPH/HSA, CHES, *(Nova Southeastern University), Chair and Clinical Associate Professor, Health Services Administration*

Youngblut, JoAnne, Ph.D., RN, FAAN, *(University of Michigan), Professor Emeritus, Nursing*

Robert Stempel College of Public Health & Social Work

Dean	**Tomás Guilarte**
Associate Dean, Academic Affairs	**Mark Macgowan**
Associate Dean, Graduate Education	**Stanislaw Wnuk**
Associate Dean, Research	**Jason Richardson**
Assistant Dean, Student and Alumni Affairs	**Susy Gomez**
MPH Program Director	**Vukosava Pekovic**
Director, Online MPH, Educational Programs and Workforce Development	**Yasenka Peterson**

Chairs and Directors:

Academy for International Disaster Preparedness	**Javier I Marques**
Biostatistics	**Zoran Bursac**
Dietetics and Nutrition (Interim)	**Fatma Ercantil Huffman**
Environmental Health Sciences (Interim)	**Jeremy Chambers**
Epidemiology	**Mary Jo Trepka**
Health Policy and Management (Interim)	**Alejandro Arrieta**
Health Promotion and Disease Prevention	**Elena Bastida**
School of Social Work	**Mary Helen Hayden**

The Robert Stempel College of Public Health & Social Work includes five departments of Public Health that include: Biostatistics, Environmental Health Sciences, Epidemiology, Health Policy and Management, and Health Promotion and Disease Prevention; a department of Dietetics and Nutrition, the Academy for International Disaster Preparedness, and the School of Social Work. Programs of study are offered that lead to a Master's of Public Health degree (MPH) (with specializations in Biostatistics, Environmental Health Sciences, Epidemiology, Health Policy and Management, and Health Promotion and Disease Prevention), including an Online Master of Public Health; a Master of Science degree in Dietetics and Nutrition; a Master's degree in Social Work (MSW); and a Master of Arts degree in Disaster Management. A Ph.D. in Public Health (with specializations in environmental and occupational health, epidemiology, and health promotion and disease prevention, health systems research); a Ph.D. degree in Dietetics and Nutrition; and a Ph.D. in Social Welfare are also offered. In addition, a Bachelor of Science degree in Dietetics and Nutrition; and a Bachelor of Science degree in Social Work are also offered.

The mission of the college is to serve the South Florida community by increasing, sharing, and applying knowledge, wisdom, and ethical decision making in public health and social welfare. Our mission is carried out through:

- Educating and training future leaders, researchers, and practitioners;
- Conducting innovative research translating research into policy, programs, and practice, and
- Promoting healthy lives for diverse and especially underserved populations, here and abroad.

Accreditation

The Robert Stempel College of Public Health and Social Work is accredited by the Council on Education for Public Health. The Didactic Program in Dietetics (DPD) and Dietetic Internship (DI) are accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND®). The BSSW and MSW programs are accredited by the Council on Social Work Education. Each degree program is committed to preparing students for the pursuit of excellence in professional and scholarly endeavors in an era of globalization, scientific and technological advances, and demographic changes. The health and well-being of communities as affected by multiple determinants is reflected in our interdisciplinary curriculum. The programs emphasize the involvement of practitioners, academic researchers, and the community to improve and promote public health and social well-being.

Office of Student and Alumni Affairs

The Office of Student and Alumni Affairs serves as a liaison between students in the Robert Stempel College of Public Health & Social Work and university-wide student support services. The office works closely with directors and department chairs to coordinate admissions and advising services, and to provide students with information about scholarships, internships, community engagement opportunities and career development resources to help ensure student and alumni success.

The College has dynamic professional staff dedicated to promoting the college and supporting our students while they pursue their academic goals.

Admission Application

Students seeking admission to the graduate programs in the Robert Stempel College of Public Health & Social Work must formally apply to the University for acceptance at **https://admissions.fiu.edu/how-to-apply/graduate-applicant/index.html**. For additional information contact the:

Robert Stempel College of Public Health & Social Work
Office of Student and Alumni Affairs
Email: **stempelinfo@fiu.edu**
Telephone: (305) 348-7777
Fax: (305) 348-4901
Website: **http://stempel.fiu.edu/**

For additional and updated information about degrees offered, entrance requirements, and services, please visit our website:
http://stempel.fiu.edu/

Online Master of Public Health

Robert Stempel College of Public Health and Social Work offers a fully online MPH degree taught by college faculty and experts in public health. The Online MPH degree program prepares students for interdisciplinary public health positions that investigate the distribution of diseases, as well as determinants of social and environmental health among diverse populations. Students also learn how to use existing health policies and influence policies in support of optimizing population health. All admissions and graduation requirements are the same as the traditional MPH program. Each online course is the equivalent of an on-campus section of the

same course in terms of objectives, content, rigor, and transferability. Students must meet stated prerequisites or assessment scores, where applicable.

Admission Requirements

Applicants must meet the University's general graduate admission requirements. Students with diverse backgrounds are encouraged to apply.

1. A Bachelor's degree or equivalent from an accredited US college or university or, in the case of foreign students, a WES verified institution and also recognized in its own country as preparing students for further study at the graduate level.
2. A minimum 3.0 GPA in the last 60 credits of upper level work.

In addition, applicants are required to submit

a) a current resume;
b) a written statement of purpose (career goals);
c) three letters of recommendation.

3. Foreign graduates, including applicants from non-English speaking countries and domestic students who studied outside of the U.S., must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on the paper-based version of the Test of English as a Foreign Language), or 6.5 overall on the International English Language Testing System (IELTS). Applicants who hold an undergraduate or graduate degree from an institution within the United States, other English speaking countries, or countries listed in the university's English Proficiency Test Exempt Countries (https://fiuonline.fiu.edu/admissions/international-students.php) are not required to submit English proficiency exam scores.

Program Requirements

The Online Master of Public Health requires completion of 45 credit hours of approved course work with a minimum of a 'B' (3.0) average. Public Health Core courses must be passed with a grade of 'B' or higher. All work applicable to the degree must be completed within six years of first enrollment in the master's program.

Public Health Core Courses: (15 credits)

PHC 6000	Epidemiology I: Intro to Public Health Epidemiology	3
PHC 6052	Biostatistics I	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3

Online General Core Courses: (15 credits)

Five courses (3-credits per course) are to be selected to reflect the Online MPH competency-based objectives that allows the learning outcome in the integration of interdisciplinary public health programs.

PHC 6055	Data Management and Epidemiologic Analysis Using SAS/SPSS	3
PHC 6155	Health Policy	3
PHC 6355	Environmental Health and Safety	3
PHC 6536	Health Demography	3
PHC 6113	Community Health Promotion Planning and Research	3

Elective Courses (9 credits)

Students are required to take three courses (3-credits per course) for 9-credits of the following advised graduate public health electives. Students may take any other faculty approved 6000 level courses in the college to meet the 9-credit requirement.

PHC 6009	AIDS Epidemiology	3
PHC 6091	Biostatistics 2	3
PHC 6104	Public Health Management and Leadership	3
PHC 6374	Environmental Disasters and Human Health	3
PHC 6412	Health Promotion in Culturally Diverse Communities	3
PHC 6600	Health Promotion Communication Theory and Design	3

Practicum and Culminating Experience: (6 credits)

PHC 6945	Practicum in Public Health	3
PHC 6930C	Integrative Seminar in Public Health	3

PHC 6945 (Practicum) and PHC 6930C (culminating experience) are both required for all Online MPH students. The Practicum may be taken after completing a minimum of 30 credit hours, including all core courses. Students must contact the Program at least two semesters prior to registering for the Practicum to begin the process of planning, respective to the geographic location of the student and intended project. The Practicum may be waived if the student has at least 3 years of relevant practice experience working in a public health practice setting. The waiver request is prepared by the student and submitted to the program for final approval. If the Practicum Requirement is waived, the student will need to substitute an approved 3-credit course in place of PHC 6945 (Practicum) such that the total curriculum hour requirement of 45 credit hours is met.

Master of Social Work (Clinical)/Master of Public Health (Generalist)

The MSW (Clinical)/MPH (Generalist) program will be an interdisciplinary, three-year program incorporating knowledge and skills from social work and public health. The combined degree program consists of a combination of social work and public health courses.

Admissions Requirements

- Students will need to apply to and be accepted into each degree program separately in order to qualify for the combined degree program. Students will have to meet the regular admissions criteria for each program.
- If a student is already in progress with either the MSW or MPH, the application to the other degree program will need to be submitted by the end of the 1st year of coursework. At that time, the student must notify both programs that they are interested in pursuing the combined degree.

Required Courses

The required credits for the program is 87 credits.

Year One

Fall (15 credits)

SOW 5105	Human Behavior and the Social Environment I	3
SOW 5235	Social Welfare Policy and Services I	3

SOW 5404	Social Work Methodology	3
PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to PH Health Policy & Management	3
Spring (12 credits)		
SOW 5342	Social Work Practice with Individuals and Families	3
SOW 5379L	Interviewing Skills Lab	3
PHC 6052	Biostatistics I	3
PHC 6410	Health Behavior and Public Health	3
Summer (6 credits)		
PHC 6536	Health Demography	3
Social Work Elective		3

Year Two

Fall (12 credits)		
SOW 5344	Theory and Practice with Communities & Orgs	3
SOW 5629	Social Work Practice with Diverse Populations	3
PHC 6113	Community Health Promotion Planning and Research	3
PHC 6315	Introduction to Environmental Health Sciences	3
Spring (12 credits)		
SOW 5324	Theory and Practice with Groups	3
SOW 5532	Field Practicum I	3
Social Work Elective		3
PHC	Environmental Health Risk Assessment	3
Summer (6 credits)		
SOW 6125	Human Behavior and the Social Environment II	3
PHC 6055	Data Management	3

Year Three

Fall (6 credits)		
SOW 6435	Evidence-Based Social Work Practice	3
PHC 6155	Health Policy	3
Spring (6 credits)		
SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3
Summer (12 credits)		
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3
PHC 6930	Integrative Seminar in Public Health	3

Substitutions:

• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health.

• PHC 6155 Health Policy Analysis may substitute for SOW 6236 Social Welfare Policy Services II.

• Students must take two (2) electives in social work. These electives may substitute for the electives in the MPH Generalist.

• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health.

School of Social Work

Mary Helen Hayden, *Director*
Jennifer Abeloff, *Clinical Assistant Professor and Associate Director*
Richard Beaulaurier, *Associate Professor and Ph.D. Program Coordinator*
Shedrick Boren, *Clinical Assistant Professor*
Shanna Burke, *Associate Professor*
Berenice Castillo, *Assistant Professor*
Mario De La Rosa, *Professor and Director, Center for Research on U.S. Latinos HIV/AIDS and Drug Abuse*
Beatrice Farnsworth, *Clinical Assistant Professor and Assistant Supervisor of Social Work, Neighborhood HELP™*
Nicole Fava, *Assistant Professor*
Sofia Fernandez, *Assistant Professor*
Andres Gil, *Professor and Vice President for Research*
Natalia Giordano, *Assistant Teaching Professor*
Victoria Gray, *Clinical Assistant Professor*
Rosa Jones, *Founding Professor and Vice President for Student Affairs Emeritus*
Elise Linder, *Clinical Assistant Professor and M.S.W. Coordinator of Field Education*
Mark Macgowan, *Professor and Associate Dean of Academic Affairs, Robert Stempel College of Public Health and Social Work*
Lourdes Martin, *Clinical Assistant Professor and Supervisor of Social Work, Neighborhood HELP™*
Miriam Potocky, *Professor*
Amethyst St. Thomas, *Visiting Assistant Teaching Professor and B.S.S.W. Coordinator of Field Education*
Paul Stuart, *Professor Emeritus*
Barbara Thomlison, *Professor Emeritus*
Nan Van Den Bergh, *Clinical Professor Emeritus*
Eric F. Wagner, *Professor and Director, Community-Based Research Institute*
Courtney Wilson, *Assistant Professor*

Social Work offers graduate and undergraduate studies leading to the Master of Social Work and Bachelor of Science in Social Work degrees. The School also offers a Ph.D. in Social Welfare.

The profession of Social Work requires a high degree of knowledge and dedication. The desire and ability to work effectively with people and to help solve social problems demands a scientific understanding of society and human behavior, skills in social work practice, and identification with the values of the profession.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review in order to serve the needs of the University's, College's and School's regulatory and accrediting agencies. Changes may be made without advance notice. The curricula described in this catalog are continually subject to review in order to respond to the mandates of the Florida Department of Education, Board of Governors, the legislature, the Council on Education for Public Health and the Council on Social Work Education. The School makes every effort to minimize the impact of curriculum changes on currently enrolled students by stipulating that students complete the requirements of their degree program in effect at the time of admission or readmission to the program. In the event that this is not possible due to accreditation standards or the deletion of courses, students may be required to complete alternative degree requirements in order to graduate.

Master of Social Work

Social Work offers an integrated program that leads to the Master of Social Work (MSW) degree. The program is designed to give the student professional education for the advanced practice of social work. The curriculum applies a bio-psychosocial model within the context of a social systems framework to understand client systems, address problems and develop interventions.

The Master of Social Work Program at Florida International University is accredited by the Council on Social Work Education (CSWE). The program is grounded in the core competencies set forth by CSWE. Students are expected to meet all core competencies, including generalist and advanced clinical practice behaviors, by the end of their studies. Students are also provided grounding in basic public health knowledge.

All students will be required to acquire or to possess the core competencies in the areas of professional study considered essential in social work education: professional, behavior and ethics, diversity, and difference in practice, advancing human rights and social, economic, and environmental justice, policy practice, research, and practice including engagement, assessment, interventions, and evaluations with individuals, families, groups, organizations, and communities. The knowledge acquired in the professional courses will be applied in supervised field experiences in social service agencies. As part of field education, social work students may also participate with students from the Herbert Wertheim College of Medicine and the Nicole Wertheim College of Nursing and Health Sciences in the Green Family Foundation Neighborhood HELP™, an inter-professional team approach in Miami-Dade communities.

The program offers a specialization in advanced clinical practice and students complete a field practicum program that supports practice in that specialization. With the help of faculty, students will develop individualized programs in the specialization to meet their educational needs, advanced practice behaviors, and contribute to their professional objectives. The program provides a curriculum which meets the current educational requirements for clinical licensure in Florida.

Field agencies require the disclosure of conviction records for misdemeanors and/or felonies and current screening for drug use. Therefore, students are required to submit to state and federal background checks and drug screening tests prior to the initiation of the practicum. Findings in the background checks and/or drug screenings tests may affect a student's ability to participate in field internship and, thus, complete the social work program. Students are further advised that Florida and most other states may restrict or deny social work employment and/or licensure for persons with a felony conviction. **Students with a criminal background must consult with the MSW Program Coordinator before continuing in the program.**

Evening and weekend field placements are extremely limited and are granted only as an exception. The School of Social Work is under no obligation to provide such placements. Consequently, practicum placement cannot be guaranteed for students who require evening and weekend placements. All students must have at least eight

(8) weekday, daytime hours available per week during their practicum experience.

Policy Statement for the Employment Setting Practicum

The field education experience is designed to offer students new learning opportunities in new practice settings. It is possible for MSW students to complete the practicum in their place of employment with the permission of the MSW Field Coordinator and if all other program requirements are met. Students must follow the policy and complete and submit the application for the Employment Setting Practicum by the field application due date for the semester applying for placement. Completed applications are reviewed on a case- by- case basis. The student must have completed at least 6 months of employment and not be on probation at the time the application is due. FIU School of Social Work must be affiliated with any field practicum agency prior to student placement.

For additional information regarding the graduate social work program of study and degree requirements, contact the School of Social Work at (305) 348-5880.

Admission Requirements

Applicants to the MSW program are required to meet the minimum standards set forth by the Florida Board of Education, the University, and the School of Social Work. Students must have a GPA of 3.0 or better in all upper-level courses. Application procedures for admission to graduate study are found in the graduate admission section of this catalog. An application to the University, an application to the Social Work MSW program, a personal narrative, and three letters of reference are required for admission. A personal interview may be requested. All applicants are required to have completed college-level courses in biology (including coverage of Human Biology) and statistics and 12 semester hours in the social and behavioral sciences.

In addition to the College and University policies governing transfer credit the following regulations apply:

1. Courses taken in a Master of Social Work program, accredited by the Council on Social Work Education, in which the applicant was fully admitted, may be transferred up to a maximum of 6 semester hours.
2. Graduate courses taken in other than CSWE accredited Social Work programs may not be transferred.
3. Required concentration courses (6000 level) are not transferable.

Advanced Standing Status

Applicants with a B.S.W. degree from a program accredited by the Council on Social Work Education (CSWE) within five years prior to matriculation and a minimum of 3.25 GPA (last 60 hours/upper division of undergraduate studies) **may be considered** for Advanced Standing status. Advanced Standing is **not automatically granted**. All students admitted to the MSW Program are required to take 30 semester hours of concentration courses in addition to the course in public health unless they have a BSSW/BSW from FIU or another social work program that is accredited by the Council on Education for Public Health (CEPH). Students that fulfill the criteria can take an additional, 3-credit elective in the place of the public health course. Students who are admitted with Advanced Standing status will not be required to take the graduate foundation courses if they earned a 'B' or better in the corresponding course(s) at the bachelor's level. Students admitted with Advanced Standing Status will not be awarded any transfer credit, substitutions, or exemptions.

Degree Requirements

The Master of Social Work program is a 60 semester hour program composed of 30 semester hours of generalist courses followed by 30 semester hours of specialization courses in the second year. The Master of Social Work for students with Advanced Standing Status is composed of 33 semester hours of specialization courses.

An overall GPA of 3.0 is required for graduation. Any required course in which a student receives a grade lower than 'B' must be retaken. (A grade of 'B-' is not acceptable.) However, a grade of 'B-' in an elective does not have to be retaken. A passing grade in field practicum courses is required for continuation in the program. Field courses cannot be repeated.

Students in the MSW program who fail a required social work course (a 'B-' or lower) three (3) times may not take the course again and will be automatically dismissed from the program.

A student must successfully complete all work applicable to the Master of Social Work program within 48 months from initial admission. In unusual circumstances, and if the reasons warrant it, a student may petition the School Director for an extension of the time limit.

Required Courses: (60)

Block I GENERALIST COURSES

SOW 5105	Human Behavior and the Social Environment I	3
SOW 5235	Social Welfare Policy and Services I	3
SOW 5342	Social Work Practice with Individuals and Families	3
SOW 5379L	Interviewing Skills Lab	3
SOW 5404	Social Work Research Methodology	3

Block II GENERALIST COURSES

SOW 5324	Theory and Practice with Groups	3
SOW 5629	Social Work Practice with Diverse Populations	3
SOW 5532	Field Practicum I	3
SOW 5344	Theory and Practice with Communities and Organizations	3
PHC 6500	Foundations of Public Health Practice	3

(Or SOW Social Work Clinical Practice Elective 3 if student has a BSSW/BSW from FIU or a social work program accredited by CEPH).

Block III SPECIALIZATION COURSES

SOW 6125	Human Behavior & the Social Environment II – Psychopathology	3
SOW 6236	Social Welfare Policy and Services II	3
SOW 6435	Evidence-Based Social Work Practice	3
SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3
PHC 6500	Foundations of Public Health Practice	3

Block IV SPECIALIZATION COURSES

SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3
SOW 6534	Field Practicum III	6

SOW	Social Work Clinical Practice Elective	3
SOW	Social Work Clinical Practice Elective	3

Students are required to complete all of the first-year Generalist Courses and be fully admitted to the MSW Program before enrolling into any of the 6000 level Specialization courses.

Master of Social Work/ Master of Public Health in Health Promotion and Disease Prevention (HPDP) Degree Pathway

The MSW/MPH in Health Promotion and Disease Prevention degree pathway will be an interdisciplinary, three-year program incorporating knowledge and skills from social work and public health with a concentration in clinical social work and Health Promotion and Disease Prevention. The first year will consist of social work courses, followed by public health courses in the second year, and a combination of social work and public health courses in the final year. The required credits for the pathway would be 90 credits. Any deviation from the course plan set forth by the program will result in the student no longer being a part of the combined degree pathway

Admissions Requirements

- Students will need to apply to and be accepted into each degree pathway separately in order to qualify for the combined degree program. Students will have to meet the regular admissions criteria for each program.
- Applicants must be admitted into both programs for the same term in order to proceed in the combined degree program.
- At the time of admission, the student must notify both programs that they are pursuing the combined degree pathway.
- Applicants cannot have any outstanding pre-requisites

Required Courses

Year One

Fall (14 credits)

SOW 5105	Human Behavior and the Social Environment I	3
SOW 5235	Social Welfare Policy and Services I	3
SOW 5342	Social Work Practice with Individuals and Families	3
SOW 5379L	Interviewing Skills Lab	3
SOW 5404	Social Work Methodology	3
	or	
PHC 6706	Research Methods in Public Health	3

Spring (13 credits)

SOW 5344	Theory and Practice with Communities & Orgs	3
SOW 5324	Theory and Practice with Groups	3
SOW 5532	Field Practicum I	3
SOW 5629	Social Work Practice with Diverse Populations	3

Summer (6 credits)

SOW 6125	Human Behavior and the Social Environment II	3
	Social Work Elective	3

Year Two

Fall (9 credits)

PHC 6052	Biostatistics I	3
PHC 6602	Theoretical Foundations of Health Promotion	3
PHC 6410	Health Behavior and Public Health	3

Spring (9 credits)

PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to PH Health Policy & Management	3

Summer (6 credits)

	Public Health Elective	3
	Public Health Elective	3

Year Three

Fall (12 credits)

	Social Work Elective	3
PHC 6146	Health Promotion Program Planning and Intervention Design	3
SOW 6236	Social Welfare Policy & Services II	3
SOW 6435	Evidence-Based Social Work Practice	3

Spring (9 credits)

SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3
PHC 6750	Program Development & Evaluation for Health Promotion	3

Summer (12 credits)

PHC 6930	Integrative Seminar in Public Health	3
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3

Substitutions:

• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health.

• Students may choose to take either PHC 6706 Research Methods in Public Health or SOW 5404 Social Work Research Methodology.

• Students must take two (2) electives in social work and two (2) electives in HPDP. The two (2) social work electives may substitute for the 3rd and 4th HPDP electives usually required.

• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health.

Master of Social Work/ Master of Public Health in Health Promotion and Disease Prevention (HPDP) with MSW Advanced Standing Status Pathway

The MSW/MPH in Health Promotion and Disease Prevention with Advanced Standing degree pathway will be an interdisciplinary, two-year accelerated pathway incorporating knowledge and skills from social work and public health with a specialization in clinical social work and Health Promotion and Disease Prevention. Only students who already have an undergraduate degree in social work and meet the criteria for the advanced standing MSW may apply to this accelerated pathway. Both the first and second years of the program will involve social work and public health courses. Any deviation from the course plan set forth by the program will result in the

student no longer being a part of the combined degree pathway

Admission Requirements:

- Students will need to apply to and be accepted into each degree program separately in order to qualify for the combined degree pathway.
- Applicants must be admitted into both programs for the same term in order to proceed in the combined degree program.
- At the time of admission, students must notify both programs that they are pursuing the combined degree pathway with advanced standing in social work.
- Applicants cannot have any outstanding pre-requisites.
- Applicants cannot have less than a "B" in any core, social work courses in their undergraduate program.

Required Courses:

Year One

Fall (12 credits)

SOW 6125	Human Behavior and the Social Environment II	3
PHC 6052	Biostatistics I	3
PHC 6146	Health Promotion Program Planning and Intervention Design	3
PHC 6410	Health Behavior and Public Health	3

Spring (12 credits)

PHC 6750	Program Development & Evaluation for Health Promotion	3
PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to PH Health Policy & Management	3
SOW 6435	Evidence-Based Social Work Practice	3

Summer (9 credits)

	Public Health Elective	3
	Public Health Elective	3
	Social Work Elective	3*

Year Two

Fall (12 credits)

SOW 6236	Social Welfare Policy & Services II	3
PHC 6602	Theoretical Foundations of Health Promotion	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6706	Research Methods in Public Health	3

Spring (9 credits)

SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3
	Social Work Elective	3

Summer (12 credits)

PHC 6930	Integrative Seminar in Public Health	3
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3

Substitutions:

• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health.

• Students must take two (2) electives in social work and two (2) electives in HPDP. The two (2) social work electives may substitute for the 3rd and 4th HPDP electives usually required.

• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health.

MSW/MPH Program in Health Policy & Management (HPM) Degree Pathway

The MSW/MPH in Health Policy & Management degree pathway is an interdisciplinary, three-year program incorporating knowledge and skills from social work and public health with a concentration in clinical social work and Health Policy & Management. The first year will consist of social work courses, followed by mainly public health courses in the second year, and a combination of social work and public health courses in the final year.
The required credits for the pathway would be 90 credits.

Admissions:

-
- Students will need to apply to and be accepted into each degree program separately in order to qualify for the combined degree pathway. Students will have to meet the regular admissions criteria for each program.
- If a student is already in progress with either the MSW or MPH, the application to the other degree program will need to be submitted by the end of the 1st year of coursework. At that time, the student must notify both programs that they are interested in pursuing the combined degree pathway.

Required Courses

Year One

Fall (14 credits)

SOW 5105	Human Behavior and the Social Environment I	3
SOW 5235	Social Welfare Policy and Services I	3
SOW 5342	Social Work Practice with Individuals and Families	3
SOW 5379L	Interviewing Skills Lab	3
SOW 5404	Social Work Research Methodology	3

Spring (13 credits)

SOW 5344	Theory and Practice with Communities & Organizations	3
SOW 5629	Social Work Practice with Diverse Populations	3
SOW 5324	Theory and Practice with Groups	3
SOW 5532	Field Practicum I	3

Summer (6 credits)

SOW 6125	Human Behavior and the Social Environment II	3
	Social Work Elective	3

Year Two

Fall (9 credits)

PHC 6052	Biostatistics I	3
PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to PH Health Policy & Management (Online)	3

Spring (9 credits)

PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3
PHC 6104C	Public Health Management and Leadership	3

Summer (9 credits)

PHC 6154C	Evidence-Based Health Policy for PH	3
	HPM Elective	3
SOW 6435	Evidence-Based Social Work Practice	3

Year Three
Fall (9 credits)

PHC 6155C	Health Policy Analysis	3
PHC 5430C	Public Health Economics	3
	Social Work Elective	3

Spring (9 credits)

PHC 6063C	Health Policy Database Applications	3
SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3

Summer (12 credits)

PHC 6930	Integrative Seminar in Public Health	3
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3

Substitutions:

• PHC 6155C Health Policy Analysis may substitute for SOW 6236 Social Welfare Policy Services II
• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health
• Students must take 2 electives in social work, and 1 elective in HPM. One of those social work electives will be substituted for the 2nd HPM elective usually required.
• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health

MSW/MPH Program in Health Policy & Management (HPM) with Advanced Standing Status Degree Pathway

The MSW/MPH in Health Policy & Management with Advanced Standing degree pathway is an interdisciplinary, two-year accelerated pathway incorporating knowledge and skills from social work and public health with a concentration in clinical social work and Health Policy & Management. Only students who already have an undergraduate degree in social work and meet the criteria for the advanced standing MSW may apply to this accelerated pathway. Both the first and second years of the program will involve social work and public health courses.
The required credits for the pathway would be 63 credits.

Admissions

- Students will need to apply to and be accepted into each degree program separately in order to qualify for the combined degree pathway.
- For the MSW/MPH with advanced standing, admission to both programs must occur prior to beginning any coursework. At the time of admission, the students must notify both programs that they are interested in pursuing the combined degree with advanced standing in social work pathway.

Required Courses
Year One
Fall (9 credits)

PHC 6052	Biostatistics I	3
PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to PH Health Policy & Management (Online)	3

Spring (9 credits)

PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3
PHC 6104C	Public Health Management and Leadership	3

Summer (9 credits)

PHC 6154C	Evidence-Based Health Policy for PH	3
PHC 6147C	Continuous Quality Improvement in Healthcare Organizations	3
SOW 6435	Evidence-Based Social Work Practice	3

Year Two
Fall (9 credits)

PHC 6155C	Health Policy Analysis	3
PHC 6430C	Public Health Economics	3
	Social Work Elective	3

Spring (9 credits)

PHC 6160	Public Health Budgeting and Financial Management	3
SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3

Summer (12 credits)

PHC 6930	Integrative Seminar in Public Health	3
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3

Substitutions:

• PHC 6155C Health Policy Analysis may substitute for SOW 6236 Social Welfare Policy Services II
• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health
• Students must take 2 electives in social work, and 1 elective in HPM. One of those social work electives will be substituted for the 2nd HPM elective usually required.
• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health

Master of Social Work (Clinical)/Master of Public Health (Generalist)

The MSW (Clinical)/MPH (Generalist) program will be an interdisciplinary, three-year program incorporating knowledge and skills from social work and public health. The combined degree program consists of a combination of social work and public health courses.

Admissions Requirements

- Students will need to apply to and be accepted into each degree program separately in order to qualify for the combined degree program. Students will have to meet the regular admissions criteria for each program.
- If a student is already in progress with either the MSW or MPH, the application to the other degree program will need to be submitted by the end of the 1st year of coursework. At that time, the student must notify both programs that they are interested in pursuing the combined degree.

Required Courses
The required credits for the program is 87 credits.
Year One
Fall (15 credits)

SOW 5105	Human Behavior and the Social Environment I	3
SOW 5235	Social Welfare Policy and Services I	3
SOW 5404	Social Work Methodology	3

PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to PH Health Policy & Management	3
Spring (12 credits)		
SOW 5342	Social Work Practice with Individuals and Families	3
SOW 5379L	Interviewing Skills Lab	3
PHC 6052	Biostatistics I	3
PHC 6410	Health Behavior and Public Health	3
Summer (6 credits)		
PHC 6536	Health Demography	3
Social Work Elective		3

Year Two

Fall (12 credits)		
SOW 5344	Theory and Practice with Communities & Orgs	3
SOW 5629	Social Work Practice with Diverse Populations	3
PHC 6113	Community Health Promotion Planning and Research	3
PHC 6315	Introduction to Environmental Health Sciences	3
Spring (12 credits)		
SOW 5324	Theory and Practice with Groups	3
SOW 5532	Field Practicum I	3
Social Work Elective		3
PHC	Environmental Health Risk Assessment	3
Summer (6 credits)		
SOW 6125	Human Behavior and the Social Environment II	3
PHC 6055	Data Management	3

Year Three

Fall (6 credits)		
SOW 6435	Evidence-Based Social Work Practice	3
PHC 6155	Health Policy	3
Spring (6 credits)		
SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3
Summer (12 credits)		
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3
PHC 6930	Integrative Seminar in Public Health	3

Substitutions:

• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health.

• PHC 6155 Health Policy Analysis may substitute for SOW 6236 Social Welfare Policy Services II.

• Students must take two (2) electives in social work. These electives may substitute for the electives in the MPH Generalist.

• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health.

Master of Social Work (Clinical)/Master of Public Health (Generalist) with MSW Advanced Standing Status

The MSW (Clinical)/MPH (Generalist) with Advanced Standing program will be an interdisciplinary, two-year accelerated program incorporating knowledge and skills from social work and public health. Only students who already have an undergraduate degree in social work and meet the criteria for the advanced standing MSW may apply to this accelerated program.

Both the first and second years of the program will involve social work and public health courses.

Any deviation from the course plan set forth by the program will result in the student no longer being a part of the combined degree pathway.

Admissions Process:

- Students will need to apply to and be accepted into each degree program separately in order to qualify for the combined degree program.
- Applicants must be admitted into both programs for the same term in order to proceed in the combined degree program.
- At the time of admission, students must notify both programs that they are pursuing the combined degree pathway with advanced standing in social work.
- Applicants cannot have any outstanding pre-requisites.
- Applicants cannot have less than a “B” in any core, social work courses in their undergraduate program

Required Courses:

The required credits for the program is 60 credits.

Year One Fall (12 credits)		
SOW 6125	Human Behavior and the Social Environment II	3
PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to Public Health Policy & Management	3
PHC 6315	Intro to Environmental Health	3
Spring (12 credits)		
SOW 6435	Evaluating Empirically Based Social Work Practice	3
PHC 6065	Public Health Statistics	3
PHC 6311	Environmental Health Risk Assessment	3
PHC 6410	Health Behavior and Public Health	3
Summer (6 credits)		
	Social Work Elective	3
PHC 6536	Health Demography	3

Year Two

Fall (12 credits)		
	Social Work Elective	3
PHC 6055	Data Management	3
PHC 6113	Community Health Promotion and Research	3
PHC 6155	Health Policy	3
Spring (6 credits)		
SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3
Summer (12 credits)		
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3
PHC 6930	Integrative Seminar in Public Health	3

Substitutions:

• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health.
• PHC 6155 Health Policy Analysis may substitute for SOW 6236 Social Welfare Policy Services II.
• Students must take two (2) electives in social work. These electives may substitute for the electives in the MPH Generalist.
• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health.

Juris Doctor/Master of Social Work Joint Degree Program Pathway

1. Candidates for the pathway must meet the entrance requirements for and be accepted by both the College of Law and the School of Social Work. Both schools must be informed by the student at the time of application to the second school that the student intends to pursue the joint degree pathway.
2. The joint degree pathway is not open to students who have already earned one degree.
3. For law students, enrollment in the M.S.W. program is required no later than the completion of 63 credit hours in the J.D. program. For M.S.W. students, enrollment in the J.D. program is required no later than the completion of 30 credit hours in MSW Program.
4. A student must satisfy the curriculum requirements for each degree before either degree is awarded. The School of Social Work will allow 9 credit hours of approved law courses to be credited toward both the M.S.W. and J.D. degrees. These 9 credit hours of law classes will be in lieu of Social Work electives and must be selected from an approved list of law classes. Reciprocally, law students may receive 9 hours of credit toward the satisfaction of the J.D. degree for courses taken in the M.S.W. curriculum upon completion of the M.S.W. degree curriculum with a grade point average of 3.0 or higher.
5. A full-time law student enrolled in the joint degree pathway may spend the first year in either the College of Law or the School of Social Work. A part-time law student enrolled in the joint degree pathway may begin the student's studies in either the College of Law or the School of Social Work, but must take the first three semesters of law study consecutively. Students admitted to one school but electing to begin study in the other school under the joint degree program may enter the second school thereafter without once again qualifying for admission so long as they have notified the second school before the end of the first week of the first semester in the second school and are in good academic standing when studies commence in the second school.
6. A student enrolled in the joint degree pathway will not receive either degree until the student has satisfied all of the requirements for both degrees, or until the student has satisfied the requirements of one of the degrees as if the student had not been a joint degree pathway candidate.

Doctor of Philosophy in Social Welfare

The Doctor of Philosophy in Social Welfare aims to prepare students for careers in research, university teaching, and leadership in social work and social welfare.

The Program emphasizes research that informs the development, implementation and evaluation of culturally appropriate interventions to meet the human needs of individuals, families, groups, and communities.

The Program is structured to develop and strengthen students' skills in the methods of scientific inquiry, to deepen their understanding and analysis of social problems and public issues, and to contribute to the knowledge base of social welfare. Students pursue a course of study focused on social problems, intervention research, and research methodology related to an area of specialization of particular interest to them.

The faculty mentor students on a specific area of research, its theoretical foundations and practical applications. Instruction and mentoring involve courses and seminars, supervised conduct of research, collaborative work with faculty, presentations of scientific papers, writing and publishing scholarly work, and submitting research grant proposals. While in the program, students are expected to disseminate the results of their study and research in appropriate forums. Students are also offered opportunities to teach.

Admission Requirements

Applicants are required to meet the following requirements:

1. A Master's degree in Social Work from an accredited school of social work, or in a closely related field;
2. Evidence of superior academic achievement in undergraduate and graduate education, including a 3.0 (upper division) undergraduate GPA and a 3.5 graduate GPA;
3. Official Graduate Record Examination (GRE) scores;
4. Documentation of completion of courses in statistical methods and research methodology with grades of 'B' or better;
5. Three letters of recommendation (two academic and one professional);
6. Two examples of written scholarly work;
7. A personal statement describing the applicant's research interests and career goals;
8. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or overall 6.5 on the IELTS is required;
9. All applicants must be approved by the Doctoral Committee. Applications for Fall semester admission are due by February 15th of the year of application.

Degree Requirements

1. Completion of a minimum of 75 credit hours earned beyond the bachelor's degree: (at least 36 credit hours of required coursework taken over the first three consecutive semesters following admission, obtaining at least a "B" grade for each course, and at least 15 dissertation credit hours following advancement to candidacy); continuous registration for at least 3 credit hours of dissertation courses during each semester following advancement to

candidacy; maintenance of an overall cumulative grade point average (GPA) of at least 3.0;
2. Filing, before the end of the fourth semester of study, three major papers, each having obtained a grade of at least "B+" from a three-member Doctoral Candidacy committee (this constitutes the Doctoral Candidacy Examination);
3. Successful defense of a Dissertation Proposal from a duly constituted Dissertation Committee;
4. Completion of a dissertation under the guidance of the Dissertation Committee;
5. Successful defense of the dissertation before the Dissertation Committee and the University community;
6. Obtaining the Ph.D. degree within nine years of admission into the Ph.D. program.

Program of Study

The Doctor of Philosophy in Social Welfare is a 75 semester credit hour program comprised of at least 36 hours of required coursework and 15 semester hours of dissertation study. The balance of the hours (prior to dissertation credits) are made up of electives and/or supervised or independent research courses (i.e., SOW 6914 or SOW 7916), in consultation with the student's academic advisor. Additional semester graduate credit hours may be drawn from the student's master's degree.

Required Courses (*Designates Required Course)

Semester I (12 hours)

*SOW 7216	Social Welfare Policy	3
*SOW 7406	History & Systems of Social Work Research	3
*SOW 7492	Theory Development and Research Methods in Social Welfare	3
*PHC 6709	Quantitative Research Analysis I (or equivalent)	3

Semester II (12 hours)

*SOW 7237	Micro-Practice Theory and Research	3
*SOW 7238	Macro-Practice Theory and Research	3
*PHC 6091	Biostatistics 2 (or equivalent)	3
*AAA xxxx	Graduate Elective (or SOW 7916 Supervised Research)	3

Semester III (12 hours)

*SOW 7936	Dissertation Seminar in Social Welfare	3
*SOW 7493	Research Methods in Social Welfare II (or equivalent)	3
*AAA xxxx	Graduate Elective (or SOW 7916 Supervised Research	3
*PHC 6500	Foundations of Public Health Practice*	3

Semester IV +

If Doctoral Candidacy attained:

*SOW 7980	Dissertation Credits (min 15 hours)	3

If Doctoral Candidacy not attained:

*SOW 7916	Supervised Research	3
or		
SOW 6914	Independent Research	1

* This course is not required for Ph.D. students who (a) have a graduate degree in Public Health, (b) a joint MSW/MPH degree, (c) who have already obtained a B or better in PHC 6500 at FIU, or (d) have taken an equivalent graduate level course at another university.

For additional and updated information about degrees offered, entrance requirements, and services, please visit our website:
http://stempel.fiu.edu/academics/school-social-work/

Biostatistics

Zoran Bursac, *Professor and Chair*
Michelle Hospital, *Research Associate Professor*
Nan Hu, *Associate Professor*
Boubakari Ibrahimou, *Associate Professor*
Tan Li, *Associate Professor*
Fernando E. Lopez Martinez, *Courtesy Assistant Professor*
Gabriel Odom, *Assistant Professor*
Emir Veledar, *Courtesy Professor*
Changwon Yoo, *Associate Professor*

The Department offers a major in Biostatistics for the College's MPH degree, which covers basic applied biostatistics especially as required for public health and community health research and practice.

MPH in Biostatistics

Biostatistics is a field that facilitates the conduct of health and medical research through a focus on designing sound experiments and studies relevant to human health and through the process of collecting, managing, analyzing and interpreting data. Biostatisticians collaborate in the identification and refinement of important research questions and in the methods and procedures required to obtain high quality and reliable answers to these questions. There remains a shortage of professional biostatisticians and the field provides meaningful and rewarding careers for those interested and able to go down this path.

Admission Requirements

Applicants must meet the University's general graduate admission requirements:

1. A Bachelor's degree or equivalent from an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level.
2. A minimum 3.0 GPA on the last 60 under-graduate hours. In addition, applicants are required to submit 1) a current resume; and 2) a written statement of purpose (career goals). Applicants are also encouraged to submit three letters of recommendation.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required. Students with diverse backgrounds are encouraged to apply.
4. Submission of official GRE scores are optional. If a student decides to submit GRE scores, the scores must be less than 5 years old.
5. Preference will be given to applicants having completed coursework in mathematics through calculus.

MPH Core Curriculum: (15 credits)

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6052	Biostatistics I	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3

Major in Biostatistics: (15 credits)

PHC 6056	Longitudinal Health Data Analysis	3
PHC 6064	Applied Statistical Methods for Discrete Data	3
PHC 6080	SAS Computing for Health Sciences	3
PHC 6091	Biostatistics 2	3
PHC 6059	Survival Data Analysis	3

Electives for Biostatistics: (9 credits)

PHC 6055	Data Management and Epidemiologic Analysis Using SAS/SPSS	3
PHC 6099	R Computing for Health Sciences	3
PHC 7719	Multivariate Methods in Health Sciences Research	3
PHC 6067	Probabilistic Graphical Models	3
PHC 6907	Independent Study: Public Health	3
PHC 6931	Special Topic in Biostatistics	3

Practicum and Culminating Experience: (6 credits)

PHC 6945	Practicum in Public Health	3
PHC 6930C	Integrative Seminar in Public Health	3

PHC 6945 (Practicum) and PHC 6930C (culminating experience) are both required for all MPH students. The Practicum may be taken after completing a minimum of 30 hours, including all core courses. The Practicum may be waived if the student has at least 3 years of relevant practice experience working in a public health practice setting. The waiver request is prepared and submitted by the student, through their Faculty Advisor and Department Chair, for final approval/disapproval by the Academic Public Health Director. If the Practicum requirement is waived, the student will need to substitute 3 additional approved hours so that the total curriculum hour requirement of 45 is met. MPH students are expected to complete PHC 6930C Integrative Seminar in Public Health during their last semester in the program.

For additional and updated information about degrees offered, entrance requirements, and services, please visit the College's website: **http://stempel.fiu.edu**.

Master of Science in Data Science and Artificial Intelligence - Biostatistics Data Analytics Track

PHC 6056	Longitudinal Health Data Analysis
PHC 6059	Survival Data Analysis
PHC 6064	Applied Statistical Methods for Discrete Data
PHC 6067	Probabilistic Graphical Models
PHC 6060	Principles and Approaches to Biostatistical Consulting
PHC 6080	SAS Computing for the Health Sciences
PHC 6084	Intro to Bayesian Inference
PHC 6093	Biostatistical Data Management Concepts and Procedures
PHC 6099	R Computing for the Health Sciences
PHC 7083	Advanced Bayesian Inference
PHC 7719	Multivariate Methods in Health Sciences Research
STA 6247	Data Analysis II

	or	
PHC 6091	Biostatistics II	

Doctor of Philosophy in Public Health Major in Biostatics and Data Analytics

Doctoral Requirements

A student must enroll for dissertation credits after completing all coursework, passing the candidacy examination, and being advanced to candidacy. Dissertation credits cannot be taken before advancement to candidacy.

This candidacy/qualifying examination requires both a written and an oral examination. The examination should be completed after a minimum of 33 credits in residence and no later than the sixth term of study (including the summer term). The student must meet the University's registration requirements at the time they take the exam. The student should register in the term in which they plan to take the qualifying examination. A candidacy examination may not be passed conditionally. A "Pass" on the examination cannot be made contingent upon other factors

such as the completion of additional coursework or the preparation of extra research projects. After a doctoral student is admitted to candidacy, continuous registration for at least three dissertation credits is required until the dissertation requirement is fulfilled.

Required Courses

The program requires a minimum of 75 credit hours beyond the baccalaureate, including a minimum of 15 hours of dissertation credits. There are three components to the College Ph.D. curriculum. The first component is a core curriculum shared across all public health majors (12 credit hours). The second component is specific to biostatistics and data analytics (48 credit hours) and doctoral seminar (0 credit hours). Students will attend meetings of the doctoral seminar during each fall and spring semester before dissertation completion. The third component consists of the dissertation, including 15 dissertation credit hours.

Shared Core Courses: (12 credits)

PHC 6601	Emerging Issues in Public Health	3
PHC 6091	Biostatistics 2	3
PHC 7705	Methods in Evidence Based Public Health	3
PHC 7981	Research Concepts and Proposal Development	3

Courses for a Major in Biostatistics and Data Analytics

A minimum of 48 credit hours which include 12 hours in Biostatistics Core Courses, 36 hours in Biostatistics Elective Courses or appropriate other electives as determined by the doctoral mentor, and 0 credits of doctoral seminar*

Department reserves the right to offer seminar for credit.

Biostatistics and Data Analytics Core Courses (12 credits)

PHC 7050	Advanced Biostatistics I	3
PHC 7051	Advanced Biostatistics II	3
PHC 7054	Advanced Biostatistics III	3
PHC 6099	R Computing for Health Sciences	3
	OR	
PHC 6080	SAS Computing for Health Sciences	3

Biostatistics and Data Analytics Elective Courses (36 credits)

PHC 6056	Longitudinal Data Analysis	3
PHC 6059	Survival Data Analysis	3
PHC 6060	Principles and Approaches to Biostatistical Consulting	3
PHC 6064	Applied Statistical Methods for Discrete Data	3
PHC 6067	Probabilistic Graphical Models	3
PHC 6080	SAS Computing for Health Sciences	3
PHC 6084	Introduction to Bayesian Inference	3
PHC 6099	R Computing for Health Sciences	3
PHC 6701	Advanced R Computing	3
PHC 6931	Special Topics in Biostatistics	1-3
PHC 7064	Applied Structural Equation Modeling	3
PHC 7083	Advanced Bayesian Inference	3
PHC 7719	Multivariate Methods in Health Sciences Research	3
PHC 7982	Public Health Pre-Dissertation Research	1-6

Doctoral Seminar (0* credits)

PHC 7933	Seminar in Biostatistics	1-6

Students will be required to participate in the doctoral seminar every fall and spring semester from the start of the program. Seminar attendance carries 0 credits unless offered for credit by the department.

Dissertation Requirements: (15 credits)

PHC 7980	Dissertation	3

Dietetics and Nutrition

Fatma Huffman, *Interim Chair*, *Professor*
Deborah M. Abel, *Clinical Associate Professor and Director, Graduate Certificate in Pediatric Nutrition*
Marianna Baum, *Professor*
Catherine Coccia, *Associate Professor and Director, PhD Program*
Evelyn B. Enrione, *Associate Professor, Director, Dietetic Internship, Director, MS Program*
Julia D. C. Gonzalez Pampin, *Administrator Student & Alumni Services, Graduate Programs*
Juan P. Liuzzi, *Associate Professor*
Marcia Magnus, *Associate Professor*
Joan A. Marn, *Clinical Instructor and Director, Didactic Program*
Vijaya Narayanan, *Clinical Associate Professor and Director, Nutrition Science Track*
Tania Rivera, *Clinical Assistant Professor*
Cristina Palacios, *Associate Professor*
Sabrina Sales Martinez, *Assistant Professor*

Emeriti Faculty
Michele Ciccazzo, *Associate Professor and Dean Emeritus*
Katharine R. Curry, *Professor Emeritus*
Penelope S. Easton, *Professor Emeritus, Founding Chair*
Susan P. Himburg, *Professor Emeritus and Associate Vice-President, Academic Planning and Accountability*
Dian O. Weddle, *Associate Professor Emeritus*

The Program in Dietetics and Nutrition offers graduate studies leading to a Master of Science or a Doctor of Philosophy in Dietetics and Nutrition. The M.S. program is designed to meet the needs of professional practitioners as well as students with undergraduate degrees in related fields. The Ph.D. program prepares graduates to assume leadership roles in research, academia, government agencies, private industry and community-based organizations. Our doctoral program allows students to study and work side-by-side with nationally known educators, researchers, and practitioners who serve as mentors.

The Dietetic Internship (DI) Program has been granted Full Accreditation by the Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics (ACEND®). The address, telephone number and website for ACEND® is120 South Riverside Plaza, Suite 2000; Chicago, IL 60606-6995; (312) 899-0040; http://www.eatright.org/ACEND.
Students who meet the admissions' criteria on the application and have completed a Didactic Program in Dietetics approved or accredited by ACEND® are eligible to apply to the DI. The Dietetic Internship Program does not grant credit for prior learning for any portion of the internship components. All interns must successfully complete the required courses, practica and number of supervised practice hours to receive a DI verification statement. For further information, please visit the website, https://stempel.fiu.edu/

Master of Science in Dietetics and Nutrition

Admission Requirements

Minimum entrance requirements under current University Graduate School must be met. For the M.S. this includes a 'B' (3.0 on a 4.0 scale) average in all upper division coursework. Prospective applicants must have completed the following courses with a grade of "C" or higher:

CHM 1045	General Chemistry I	3
CHM 1045L	General Chemistry Lab I	1
CHM 2210	Organic Chemistry I	4
CHM 2210L	Organic Chemistry Lab I	1
CHM 2211	Organic Chemistry II	3
CHM 2211L	Organic Chemistry Lab II	1
	OR	
CHM 2200	Survey of Organic Chemistry	3
CHM 2200L	Survey of Organic Chemistry Lab	1
MCB 2000	Introductory Microbiology	3
MCB 2000L	Introductory Microbiology Lab	1
PCB 3702	Intermediate Human Physiology	3
	OR	
HSC 3549	Clinical Physiology for Health Professionals	3
HUN 2201	Principles of Nutrition	3
HUN 4240	Nutrition and Biochemistry	3
	OR	
BCH 3033	General Biochemistry	3

Students who are candidates for the Master of Science degree in Dietetics and Nutrition must complete a minimum of 37 semester hours of graduate study including at least 30 hours at this University. All course work must be recent enough to be relevant to the contemporary field of nutrition.

Graduate students wishing to become a Registered Dietitian may use the Department website for information and discuss their options with the Graduate Program Director.

Each student's program will be planned to support his/her career goals through consultation with an assigned faculty advisor. Retention and graduation in the Master's program requires maintenance of a 3.0 GPA and student may not receive more than 2 grades of "C+".

Course Requirements: (37 credits)

Nutrition Core: (9 credits)
Students must take at least three out of five courses. One course must be in macro-nutrients, one in micro-nutrients.

HUN 5245	Nutrition and Biochemistry	3
HUN 6307	Carbohydrates and Lipids	3
HUN 6327	Proteins	3
HUN 6335	Functions of Vitamins	3
HUN 6355	Minerals in Human Nutrition	3

Public Health Core: (3 credits)

PHC 6500	Foundation of Public Health Practice	3

Research Core:
There are 3 options to meet the requirements for research:
Option 1: Research Courses
Option 2: Master's Project
Option 3: Master's Thesis

Research Courses (14 credits)

The research option provides the opportunity to develop an overview in the knowledge and skills of research primarily through secondary data analysis. Students who select this option state a research problem and relevant

research question which will be addressed through the creation of a research proposal. Students will write a report and present their topic to the class.

DIE 6568	Research I	3
DIE 6567	Research II	3
STA 6166	Statistical Methods in Research	3
	OR	
PHC 6052	Biostatistics I	3
DIE 6937	Graduate Seminar in Dietetics (*two semesters, 1 credit each*)	2
Recommended Elective		3

Masters Project Option (14 credits)

Master's Project is a non-thesis option. It affords the opportunity to conduct original applied research, program planning, or program evaluation on a specific dietetics and nutrition problem, topic, or existing program. Students who select the Master's Project must choose a major professor to direct their project. The advisor and the student may identify other resource persons to serve in an advisory capacity for the project. Before beginning the project, student must present a project concept proposal to the major professor. Student will write a project report and present the project in Seminar.

DIE 6568	Research I	3
DIE 6937	Graduate Seminar in Dietetics *(two semesters, 1 credit each)*	2
STA 6166	Statistical Methods in Research	3
	OR	
PHC 6052	Biostatistics I	3
DIE 6576	Project in Dietetics and Nutrition	6

Master Thesis Option (14 credits)

The thesis option provides the student the opportunity to conduct original research and to report this in a scholarly manuscript. This option is especially well suited to a student who plans on pursuing a PhD degree. Students who select this option must choose a major professor to act as the chair of their thesis committee and two additional committee members. Before beginning work on a thesis, a student must present a proposal to their committee for approval. The committee will direct and supervise the work carried out by the student. Student will write a report and present the research at an announced open forum.

DIE 6568	Research I	3
DIE 6937	Graduate Seminar in Dietetics (*two semesters, 1 credit each*)	2
DIE 6971	Thesis in Dietetics and Nutrition	6
STA 6166	Statistical Methods in Research	3
	OR	
PHC 6052	Biostatistics I	3

Recommended Electives[1]: (11 credits)

DIE 5247	Trends in Therapeutic Nutrition	3
ANT 6469	Graduate Medical Anthropology	3
DIE 6128	Dietetics Administration & Management	3
DIE 6259	Management of Nutrition Services	3
DIE 6285	Pregnancy and Lactation	3
DIE 6286	Pediatric Obesity	3
DIE 6287	Pediatric Dysfunctional Eating	3
DIE 6368	Advanced Techniques in Dietetic Practice	3
DIE 6368L	Advanced Techniques in Dietetic Practice Lab	1
DIE 6929	Specialized Short Course in Dietetics and Nutrition	1
DIE 6935	Special Topics in Dietetics	3
FOS 6236	Food Toxicology and Food Safety	3
HUN 5123	Ethnic Influences on Nutrition and Food Habits	3
HUN 5195	International Nutrition: Problems, Polices and Planning	3
HUN 5245	Nutritional Biochemistry	3
HUN 5611	Nutrition Education in the Community	3
HUN 5621	Food, Nutrition and Communication	3
HUN 6248	Sports Nutrition	3
HUN 6254	Drug and Nutrient Interaction	3
HUN 6255	Nutrition and Wellness	3
HUN 6257	Physio/Psychology of Food Intake	3
HUN 6266	Nutritional Assessment	3
HUN 6295	Contemporary Issues in Food and Nutrition	3
HUN 6415	Pediatric Nutrition	3
HUN 6416	Advanced Pediatric Nutrition	3
HUN 6417	Nutrition for the High-Risk Infant and Newborn in Intensive Care Unit	3
HUN 6435	Nutrition and Aging	3
HUN 6522	Public Health Nutrition	3

[1]Courses that are not listed as recommended electives may be taken as approved by advisor/Program Director.

Nutrition Science Track Accelerated Bachelor's/Master's Degree Pathway

The combined degree pathway provides an accelerated seamless course of study leading from the undergraduate freshman year to the conferral of the Master of Science in Dietetics & Nutrition. The accelerated BS/MS pathway will integrate undergraduate and graduate coursework. The BS in Dietetics & Nutrition (Nutrition Science Track) requires 120 credits. The MS in Dietetics & Nutrition is comprised of 37 credit hours. Ten graduate credits taken in the senior year of the baccalaureate program will count as elective credits toward the baccalaureate degree and toward course requirements for the master's degree in dietetics and nutrition. Completion of the remaining 27 graduate credits to earn the master's degree may occur in three semesters following undergraduate graduation.

Admission into the integrated BS/MS degree pathway in Dietetics & Nutrition requires the following:

- Enrollment in the nutrition science track of the undergraduate dietetics & nutrition degree program.
- Completion of 75 credits in the dietetics & nutrition bachelor's degree program and 15 credits in the major.
- Minimum overall GPA of 3.5
- Two Evaluation forms (preferably filled out by FIU Faculty)
- Statement of purpose (1 page double spaced) discussing interests in and benefits of the accelerated BS/MS program pathway. Concepts to include but not limited to, why are you choosing the BS/MS degree pathway, what interests you about the pathway, and how will this pathway advance your career goals.

- Meet admission requirements for FIU graduate school and master's program in the Department of Dietetics & Nutrition.

Retention in the pathway necessitates meeting the requirements of the bachelor's and master's courses and programs. In addition to the program requirements of the undergraduate nutrition science track, students will be expected to complete the following 10 credits of graduate courses during their senior year.

1. Statistics Requirement (3 credits): STA 6166 Statistical Methods in Research OR PHC 6052 Biostatistics I OR STA 6176 Biostatistics
2. Public Health Requirement (3 credits): PHC 6500 Foundations of Public Health Practice
3. Community Nutrition (3 credits): HUN 6522 Public Health Nutrition
4. Seminar in Dietetics (1 credit): DIE 6937 Graduate Seminar in Dietetics & Nutrition

To earn a BS and MS in Dietetics and Nutrition, students must meet the graduation requirements of both degree programs.

Doctor of Philosophy in Dietetics and Nutrition

Ph.D. students must complete a minimum of 55 hours after M.S. degree or a minimum of 75 hours beyond the B.S. degree. The stated minimum does not include remedial coursework. Students who did not complete PHC 6500 Foundations of Public Health prior to admission to the PhD program must complete PHC 6500 as part of the program of studies. Coursework will be planned with the advisor and the dissertation committee to support the student's research interests and career goals and to ensure the program of student meets the 75-credit hour requirement. A 3.0 GPA must be maintained, and all courses needed for graduation must be completed with a grade of "C+" or higher.

Required Courses

Required Research & Methods Core: (15 credits)

(Prerequisites: PHC 6706 or equivalent; PHC 6709 or equivalent; PHC 6500 or equivalent)

PHC 6091	Biostatistics 2	3
PHC 6602	Theoretical Foundation of Health Promotion	3
PHC 6703	Epidemiology Methods: Experimental Design	3
	or	
	Approved Experimental or Clinical Research Methods Course	3
HUN 6266	Nutritional Assessment	3
PHC 7981	Research Concepts and Proposal Development[1]	3.
	[1]Designed for Public Health Students.	
DIE 7566	Research Concepts and Proposal Development[2]	3
	[2]Designed for Dietetics Students	

Required Dietetics: (minimum 13 credits)[3]

HUN 7408	Nutrition Across the Lifespan	3
HUN 7523	Community Nutrition	3
HUN 7524	Nutrition Science and Implications for Community Health	3

[3]A program of study will be developed with the assistance of a major professor and dissertation committee. More than 13 credits may be required for the student to achieve competency in the research methods and content related to their dissertation research. Graduate courses outside of Dietetics & Nutrition may be taken as approved by dissertation committee.

Required Nutrition Sciences: (0-9 credits)[4]

HUN 6285	Nutrition & Metabolism I (CHO&Lipids)	3
HUN 6286	Nutrition & Metabolism II (Proteins)	3
HUN 6287	Nutrition & Metabolism III (Vit & Min)	3

[4]Do not need if equivalent previously taken at the graduate level.

Required Seminar: (minimum 3 credits)

DIE 6937	Graduate Seminar in Dietetics & Nutrition (course may be repeated 3 times, minimum)	1

Required Electives: (minimum 0-9 credits)[4] **0-9**

[4]Do not need if equivalent previously taken at the graduate level.

Required Dissertation: (minimum 15 credits)

DIE 7980	Dissertation	1**5**

For additional and updated information about degrees offered, entrance requirements, and services, please visit our website:
https://stempel.fiu.edu/

Disaster Management

Dulce Suarez, *Graduate Program Director*
Amy Aiken, *Adjunct Faculty, Assistant Vice President, FIU Operations and Safety*
Charles Cyrille, *Adjunct Faculty*
Jeffrey Byard, *Adjunct Faculty*
Yoni Bock, *Adjunct Faculty*
Jesse Spearo, *Adjunct Faculty*
Joann Brown, *Teaching Professor*
Dorothy L. Contiguglia-Akan, *Adjunct Faculty*
Quentin Felty, *Associate Professor*
Michael Marx, *Adjunct Faculty*
Ruben Almaguer, *Adjunct Faculty*
Jesse Spearo, *Adjunct Faculty*

Master of Arts in Disaster Management

The Master of Arts in Disaster Management is a 30- credit graduate program featuring coursework in emergency management and international humanitarian assistance. This one-year graduate program has been developed in response to the growing recognition and need for graduate level education in disaster management. The program's curriculum is interdisciplinary in nature and scope and designed to develop and improve the skills of disaster practitioners and those interested in entering the exciting field of disaster management.

The graduate degree is offered in an 11-month executive format culminating with a disaster field operations course whereby students will engage in a field simulated exercise focusing on the practical issues that arise in a disaster (rapid damage and public health assessment, shelter and site planning, field cluster sampling, water, sanitation and hygiene, personal security, food aid, and operational approaches to relations with the military).

Broadly speaking, the general learning outcome of the program is aligned with FEMA's Higher Education Core Competencies and is designed to take students beyond the core competencies needed by practitioners, to a deeper understanding of the reasons behind the practice and cultivate in them an ability to develop and implement integrated solutions to problems. Upon successful completion students will:

- possess sufficient knowledge of the history of disasters
- Able to recognize the ways sociocultural and geographic factors contribute to population vulnerability and how scientific evidence enhances decision-making in changing risk profiles
- be well-versed in the definition, mission, concepts and terminology applied in emergency management and international humanitarian assistance
- demonstrate a solid grounding in social, political, cultural and ecological issues in the social construction of disasters
- possess a firm grasp of the statutory and regulatory basis of disaster management
- identify and define areas of disaster management responsibility including mitigation opportunities, planning, training, exercises, warning, evacuation, sheltering, damage assessment, feeding, and medical care
- recognize the importance of public, private and nongovernmental organization networking to facilitate collaboration and cooperation; understand the importance of communication, coordination and collaboration in disasters
- be able to identify the resources needed and how to obtain those resources to assist survivors
- describe the various hazards and the organization needed to reduce the threat
- identify the core requirements to effective planning
- demonstrate how to perform vulnerability analysis be able to recognize and apply the appropriate decision making models; be able to isolate and apply strategic planning
- demonstrate recognition of the social and ethical considerations unique to the practice of disaster management.
- be familiar with crisis communication language.
- deliver press briefings and learn how to anticipate questions the press are likely to ask disaster and emergency managers.
- understand the variety of disaster-related health consequences that may arise during and after and event, as well as how to mitigate their impact

Admission Requirements

All applicants for graduate study at FIU must have a:

1. Baccalaureate degree from an accredited institution for higher education, or equivalent degree from a foreign institution.
2. 3.0 undergraduate GPA.
3. Foreign students must submit official Test of English as a Foreign Language (TOEFL) scores and must have a minimum score: 550 Paper and Pencil, 213 Computer-based, 80 Internet-based.

The above admission requirements are minimums, and not all students meeting them are assured admission. Students with a grade-point average below the above minimums may still apply and request a waiver of those scores. The student must provide an explanation of why the waiver should be approved.

Graduation Requirements

In order to graduate, a student must maintain a 3.0 GPA and complete satisfactorily the prescribed curriculum.

Required Courses

This 30-credit professional master's program requires completion of the following 10 courses:

FES 6846	Comparative Disaster Management Systems	3
FES 6858	Crisis Communications	3
FES 6826	Disaster Preparedness and Planning Methodologies	3
SYG 6932	Special Topics in Disaster Studies	3
FES 6857	Introduction to Vulnerability Analysis and Hazard Mitigation	3
FES 6806	Disaster Response and Recovery	3
FES 6848	Disaster Health Readiness	3

FES 6847	Foundations in Humanitarian Assistance and Coordination	3
FES 6805	Disaster Field Operations	3
PHC 6374	Environmental Disasters and Human Health	3

Note: *Courses not included on the approved list of required courses may count toward meeting the requirement of this degree only with the permission of the Director or Dean.*

Hybrid Washington DC Master of Arts in Disaster Management

The hybrid Washington DC Master of Arts in Disaster Management consists of the same 30-credit curriculum focusing studies in emergency preparedness, disaster management, and humanitarian assistance as the face-to-face and online programs. Broadly speaking, the general learning outcome of the program is aligned with FEMA's Higher Education Core Competencies and is designed to take students beyond the core competencies needed by practitioners, to a deeper understanding of the reasons behind the practice and cultivate in them an ability to develop and implement integrated solutions to problems. The hybrid program consists of approximately 25% course meetings in the FIU facility in Washington, DC, 70% online course work and 5% participation at a three-day disaster field exercise held in Miami, Florida at the culmination of the program.

Admission Requirements

All applicants for graduate study at FIU must have a:

1. Baccalaureate degree from an accredited institution for higher education, or equivalent degree from a foreign institution.
2. 3.0 undergraduate GPA.
3. Foreign students must submit official Test of English as a Foreign Language (TOEFL) scores and must have minimum scores: 550 Paper and Pencil, 213 Computer-based, 80 Internet-based.

The above admission requirements are minimums, and not all students meeting them are assured admission. Students with a grade-point average below the above minimums may still apply and request a waiver of those scores. The student must provide an explanation of why the waiver should be approved.

Graduation Requirements

In order to graduate, a student must maintain a 3.0 GPA and complete satisfactorily the prescribed curriculum.

Required Courses

This 30-credit professional master's program requires completion of the following 10 courses:

FES 6846	Comparative Disaster Management Systems	3
FES 6858	Crisis Communications	3
FES 6826	Disaster Preparedness & Planning Methodologies	3
SYG 6932	Special Topics in Disaster Studies	3
FES 6857	Introduction to Vulnerability Analysis & Hazard Mitigation	3
FES 6806	Disaster Response & Recovery	3
FES 6848	Disaster Health Readiness	3
FES 6847	Foundations in Humanitarian Assistance & Coordination	3
FES 6805	Disaster Field Operations	3
PHC 6374	Environmental Disasters & Human Health	3

Note: Courses not included on the approved list of required courses may count toward meeting the requirement of this degree only with the permission of the Executive Director or Dean.

Online Master of Arts in Disaster Management

The online Master of Arts in Disaster Management is a 30-credit graduate program featuring course work in emergency preparedness, disaster management and humanitarian assistance. This one-year graduate program has been developed in response to the growing recognition and need for graduate level education in disaster management. The program's curriculum is interdisciplinary in nature and scope and designed to develop and improve the skills of disaster practitioners and those interested in entering the exciting field of disaster management. Broadly speaking, the general learning outcome of the program is aligned with FEMA's Higher Education Core Competencies and is designed to take students beyond the core competencies needed by practitioners, to a deeper understanding of the reasons behind the practice and cultivate in them an ability to develop and implement integrated solutions to problems. Students enrolled in the online program will be required to travel to Miami to participate in a 3-day disaster field exercise, which is part of the Disaster Field Operations course (FES 6805).

Admission Requirements

All applicants for graduate study at FIU must have a:

4. Baccalaureate degree from an accredited institution for higher education, or equivalent degree from a foreign institution.
5. 3.0 undergraduate GPA.
6. Foreign students must submit official Test of English as a Foreign Language (TOEFL) scores and must have a minimum scores: 550 Paper and Pencil, 213 Computer-based, 80 Internet-based.

The above admission requirements are minimums, and not all students meeting them are assured admission. Students with a grade-point average below the above minimums may still apply and request a waiver of those scores. The student must provide an explanation of why the waiver should be approved.

Graduation Requirements

In order to graduate, a student must maintain a 3.0 GPA and complete satisfactorily the prescribed curriculum.

Required Courses

This 30-credit professional master's program requires completion of the following 10 courses:

FES 6846	Comparative Disaster Management Systems	3
FES 6826	Disaster Preparedness and Planning Methodologies	3

FES 6857	Introduction to Vulnerability Analysis and Hazard Mitigation	3
FES 6806	Disaster Response and Recovery	3
FES 6848	Disaster Health Readiness	3
FES 6847	Foundations in Humanitarian Assistance and Coordination	3
FES 6805	Disaster Field Operations	3
FES 6858	Crisis Communication	3
PHC 6374	Environmental Disasters and Human Health	3
SYG 6932	Special Topics in Disaster Studies	3

Note: *Courses not included on the approved list of required courses may count toward meeting the requirement of this degree only with the permission of the Director or Dean.*

Environmental Health Sciences

Jeremy W. Chambers, *Interim Chair and Associate Professor*
Kim Tieu, *Professor*
Diana Azzam, *Assistant Professor and Director of Doctoral Programs*
Alok Deoraj, *Associate Teaching Professor and Graduate Program Director (MPH)*
Quentin Felty, *Associate Professor*
Tomás R. Guilarte, *Professor and Dean, Robert Stempel College of Public Health and Social Work*
Jason Richardson, *Professor and Associate Dean of Research*
Deodutta Roy, *Professor*
Stanislaw Wnuk, *Professor and Associate Dean of Graduate Education*
Muhammad Hossain, *Assistant Professor*
Roberto Lucchini, *Professor*
***Xugang Xia**, Professor and Associate Vice President of Translational Neuroscience at the FIU-Center for Translational Science (FIU-CTS)*
***Hongxia Zhou**, Professor (FIU-CTS)*
Stephen Black, Professor *and Associate Vice President for Translational Research (FIU-CTS)*
Ting Wang, Professor *(FIU-CTS)*
Haiwei Gu*, Associate Professor (FIU-CTS)*
Qi Lin Cao, *Professor (FIU-CTS)*
Heidi Mansour*, Professor (FIU-CTS)*
Ying Liu*, Associate Professor (FIU-CTS)*

The Department offers a Graduate Certificate in Environmental Health Sciences (EHS), a Master's degree in Public Health (MPH) with a major in EHS and MPH in EHS with a concentration in Brain, Behavior, and the Environment (BBE). The department also offers a Ph.D. in Public Health with a major in the EHS with concentrations in Environmental Toxicology or Brain, Behavior, and the Environment (BBE).

MPH in the Environmental Health Sciences Major

The graduate training programs in the Environmental Health Sciences are both interdisciplinary and interdepartmental. The Department of Environmental Health Sciences performs high quality mechanism- and evidence-based translational research, which impacts our teaching and training for future Environmental Health leaders. Our multidisciplinary EHS Faculty conduct world class research to investigate and prevent human diseases caused by environmental exposure, that goes beyond the traditional focus on hazardous agents.

Admission Requirements

Applicants to the MPH program with a major in Environmental Health Sciences (EHS) must meet the following requirements:

1. A Bachelor's (or Master's) degree in biology, chemistry, physics, nursing, medicine, engineering, or other appropriate field with at least one (1) undergraduate biology, and one (1) undergraduate chemistry course from an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level.
2. A minimum 3.0 GPA (on the last 60 undergraduate hours). In addition, applicants are required to submit 1) a current resume; and 2) a written statement of purpose (career goals).
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
4. Submission of official GRE scores is optional. If a student decides to submit GRE scores, the scores must be less than 5 years old.

Curriculum and Course Requirements

For the MPH with a major in Environmental Health Sciences, ALL students must complete the MPH core (15 credits) and departmental core courses (12 credits), EHS selected elective courses (12 credits), a Practicum (3 credits) and Integrative Seminar (3 credits) course.

MPH Core Curriculum: (15 credits)

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6052	Biostatistics I	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3

Major in Environmental Health Sciences Core Courses: (12 credits)

PHC 6310	Environmental Toxicology	3
PHC 6311	Environmental Health Risk Assessment	3
PHC 6355	Environmental Health and Safety	3
PHC 6374	Environmental Disasters & Human Health	3

Elective Courses: (12 credits)

PHC 6312C	Health Impacts of Air, Water, and Land Pollution	3
PHC 6422	Regulatory Aspects of Environmental Health Sciences	3
PHC 6442	Global Environmental Public Health	3
PHC 6538	Gene & Environment Interaction	3
PHC 6907	Independent Study in Public Health	1-3
PHC 6920	Special Topics in Environmental Health Sciences	3
PHC 6380	Introduction to Neurotoxicology	3
PHC 6730C	Neurotoxicology Research Methods	3
PHC 6382C	Neuropharmacology	3
PHC 6383C	Neurobehavioral Techniques	3

Practicum and Culminating Experience: (6 credits)

PHC 6945	Practicum in Public Health	3
PHC 6930C	Integrative Seminar in Public Health	3

PHC 6945 (Practicum) and PHC 6930C (culminating experience) are both required for all MPH students. The Practicum may be taken after completing a minimum of 30 hours, including all core courses. The Practicum may be waived if the student has at least 3 years of relevant practice experience working in a public health practice setting. The waiver request is prepared and submitted by

the student, through their Faculty Advisor and Department Chair, for final approval/disapproval by the Academic Public Health Director. If the Practicum requirement is waived, the student will need to substitute 3 additional approved hours so that the total curriculum hour requirement of 45 is met. MPH students are expected to complete PHC 6930C Integrative Seminar in Public Health during their last semester in the program.

MPH in the Environmental Health Sciences with a Concentration in Brain, Behavior and the Environment

The total credit requirement for the MPH is 45 credits. The BBE concentration is part of the MPH Environmental Health Sciences major, which includes five courses (15) credits in the MPH Core Curriculum, four courses (12 credits) in the EHS major, and two courses (6 credits) in the Practicum and Culminating Experience. The other 12 credits will be from the BBE concentration required coursework.

MPH Core Curriculum: (15 credits)

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6052	Biostatistics I	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3

Major in Environmental Health Sciences Core Courses: (12 credits)

PHC 6310	Environmental Toxicology	3
PHC 6311	Environmental Health Risk Assessment	3
PHC 6355	Environmental Health and Safety	3
PHC 6374	Environmental Disasters & Human Health	3

Concentration in Brain, Behavior and the Environment Required Courses: (12 credits)

PHC 6380	Introduction to Neurotoxicology	3
PHC 6730C	Neurotoxicology Research Methods	3
PHC 6382C	Neuropharmacology	3
PHC 6283C	Neurobehavioral Techniques	3

Practicum and Culminating Experience: (6 credits)

PHC 6945	Practicum in Public Health	3
PHC 6930C	Integrative Seminar in Public Health	3

Doctor of Philosophy in Public Health Major in Environmental Health Sciences with a Concentration in Environmental Toxicology or Brain, Behavior and the Environment

The Doctor of Philosophy (Ph.D.) in Public Health is available with a major in Environmental Health Sciences, with concentrations either in: Environmental Toxicology, or Brain, Behavior, and the Environment. Students will be expected to demonstrate significant research capacity by completing 60 credits beyond the Master's degree and through the writing of an original dissertation.

Doctoral Admissions

Applicants must meet the University's general graduate admission requirements:

1. A four-year bachelor's degree or equivalent from a nationally accredited institution or, in the case of foreign students, from a well-established institution of higher learning that is authorized to grant degrees by appropriate authorities in that country.
2. A minimum of a 3.0 GPA, "B" average, in the last 60 upper-division undergraduate coursework, or a graduate degree from a nationally accredited institution.
3. Official GRE scores (scores must be no more than five years old).
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or a 6.5 overall on the IELTS is required.

The College also requires:

1. A current resumé.
2. Three letters of recommendation.
3. A writing sample (Master's thesis or research project, published manuscript, or some other document which demonstrates writing ability).
4. A personal statement of research interest.

Potential applicants are strongly encouraged to contact individual faculty to discuss common research interests since admission decisions require identification of a faculty mentor, and evaluation of fit to the program.

Doctoral Requirements

A student may enroll for dissertation credits after completing all coursework, passing the candidacy examination, and being advanced to candidacy. Dissertation credits cannot be taken before advancement to candidacy.

The candidacy examination will be prepared and graded by a committee consisting of a minimum of three faculty members. Admission to candidacy requires that a majority of the committee members agree that the student passed the examination. A candidacy examination may not be passed conditionally. A "Pass" on the examination cannot be made contingent upon other factors such as the completion of additional coursework or the preparation of extra research projects. Students will be allowed only two attempts to pass the candidacy examination.

After a doctoral student is admitted to candidacy, continuous registration for at least 3 dissertation credit hours each semester (including the summer term) is required until the dissertation requirement is fulfilled.

Required Courses

The major requires a minimum of 75 credit hours beyond the baccalaureate which includes a minimum of credit hours of dissertation credits. There are three components to the Ph.D. curriculum. The first is a core curriculum shared across all majors (12 credit hours). The second component is specific to the major (9 credit hours). The third component is specific to the concentration (12 credit hours), followed by content and secondary field courses (to total a minimum of 18 required credit hours). The fourth

component consists of the dissertation, including a minimum of 15 dissertation credit hours. The remaining credit hours to add up to the minimum university requirement of 75 credits will be determined in consultation with the student's advisor.

Shared Core Courses: (12 credits)

PHC 6601	Emerging Issues in Public Health	3
PHC 6091	Biostatistics 2 (or other approved Quantitative Methods course)	3
PHC 7981	Research Concepts and Proposal Development	3
PHC 7705	Methods in Evidence Based Public Health	3

Courses for Environmental Health Sciences Major requires 9 hours of EHS Major Core Courses; 12 hours of concentration courses, and 9 hours of content and secondary field courses. Overall, this must include a minimum of 9 hours at the 7000 level.

Environmental Health Sciences Major Core Courses: (9 credits)

PHC 6328	Molecular & Cellular Toxicology	4
PHC 6329	Biomarkers	3
PHC 7732C	Research Ethics & Scientific Integrity	1
PHC 6921	Environmental Health Sciences Seminar	1

Environmental Toxicology Concentration: (12 credits)

PHC 7300	Biological Basis of Environmental Diseases	4
PHC 7327	Emerging issues in the Environmental Health Sciences	2
PHC 7374	Organ-specific Toxicology	4
PHC 7713	Advanced Environmental Toxicology Research Methods	2

Brain Behavior and the Environment Concentration: (12 credits)

PHC 7381C	Neuroscience	4
PHC 7731C	Advanced Neurotoxicology Research Methods	2
PHC 7384	Advanced Neurotoxicology	4
PHC 7385C	Emerging Issues in Neurotoxicology	2

Content Courses: (a minimum of 9 credits are required)

At least 9 credit hours of approved content courses. Content course may be selected from the approved EHS courses identified below, unless otherwise indicated.

PHC 6310	Environmental Toxicology	3
PHC 6311	Environmental Health Risk Assessment	3
PHC 6312C	Health Impacts of Air, Water, and Land Pollution	3
PHC 6355	Environmental Health and Safety	3
PHC 6374	Environmental Disasters & Human Health	3
PHC 6442	Global Environmental Public Health	3
PHC 6422	Regulatory Aspects of Environmental Health Sciences	3
PHC 6538	Gene & Environment Interaction	3
PHC 6907	Independent Study in Public Health	3
PHC 6914L	Current Topics in Environmental Health Sciences Research Lab	1-9
PHC 7917	Pre Doctoral Research	1-6
PHC 6920	Special Topics in Environmental Health Sciences	3
PHC 6380	Introduction to Neurotoxicology	3
PHC 6730C	Neurotoxicology Research Methods	3
PHC 6382C	Neuropharmacology	3
PHC 6383C	Neurobehavioral Techniques	3
PHC 7300	Biological Basis of Environmental Diseases	4
PHC 7327	Emerging Issues in the Environmental Health Sciences	2
PHC 7374	Organ-Specific Toxicology	4
PHC 7713	Advanced Environmental Toxicology Research Methods	2
PHC 7381C	Neuroscience	4
PHC 7731C	Advanced Neurotoxicology Research Methods	2
PHC 7384	Advanced Neurotoxicology	4
PHC 7385C	Emerging Issues in Neurotoxicology	2

Secondary Field Courses: (a minimum of 9 credits are required)

At least 9 credit hours of approved secondary field courses. Secondary field courses may be selected from approved graduate school courses in consultation with the student's academic advisor.

Dissertation Requirements: (a minimum of 15 credits are required)

PHC 7980	Dissertation	15

For additional and updated information about degrees offered, entrance requirements, and services, please visit our website:

http://stempel.fiu.edu/students/advisina/index.html.

And

To learn about faculty and EHS research areas, please visit our EHS website:

https://stempel.fiu.edu/faculty/?_sft_units=04-environmental-health-sciences

Epidemiology

Mary Jo Trepka, *Professor and Chair*
Nasar U. Ahmed, *Associate Professor*
Miguel Ángel Cano, *Associate Professor and PhD Program Director*
Gladys Ibanez, *Assistant Professor*
Wasim Maziak, *Professor*
Olatokunbo Osibogun, *Assistant Professor*
Vukosava Pekovic, *Clinical Associate Professor and MPH Program Director*
Diana Sheehan, *Assistant Professor*
Melissa Ward, *Assistant Professor*

Affiliated Faculty
David J. Lee, *Courtesy Professor*

The Department offers a Graduate Certificate in Epidemiology, a Master's degree in Public Health with a major in Epidemiology; a Master's degree in Public Health with major in Epidemiology with a concentration in Infectious Disease Epidemiology; and a Ph.D. in Public Health with a major in Epidemiology.

MPH in Epidemiology

The courses prepare students to investigate the distribution of diseases and health conditions in the population, disease outbreaks, and the factors determining the distribution.

Admission Requirements

Applicants must meet the University's general graduate admission requirements:

1. A Bachelor's degree or equivalent from an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level.
2. A minimum 3.0 GPA on the last 60 undergraduate hours. In addition, applicants are required to submit 1) a current resume; and 2) a written statement of purpose (career goals). Applicants are also required to submit three letters of recommendation.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required. Students with diverse backgrounds are encouraged to apply.
4. Submission of official GRE scores is optional. If a student decides to submit GRE scores, the scores must be less than 5 years old.

MPH Core Curriculum: (15 credits)

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6052	Biostatistics I	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3

Major in Epidemiology: (15 credits)

PHC 6002	Infectious Disease Epidemiology	3
PHC 6003	Chronic Disease Epidemiology	3
	or	
PHC 6008	Cardiovascular Disease Epidemiology	3
PHC 6013	Epidemiology II: Observational Design	3
PHC 6016	Social Epidemiology	3
	or	
PHC 6441	Epidemiology of Health Disparity	3
PHC 6091	Biostatistics II	3

Electives for Epidemiology: (9 credits)*

PHC 6001	Environmental and Occupational Epidemiology	3
PHC 6004	Injury Epidemiology and Prevention	3
PHC 6007	Cancer Epidemiology	3
PHC 6009	AIDS Epidemiology and Control	3
PHC 6012	Current Research in Epidemiology	3
PHC 6014	Behavioral Epidemiology	3
PHC 6020	Clinical Epidemiology	3
PHC 6033	Mechanism of Complex Disease in Public Health	3
PHC 6055	Data Management and Epidemiologic Analysis Using SAS/SPSS	3
PHC 6062	Systematic Reviews and Meta-Analysis	3
PHC 6064	Applied Statistical Methods for Discrete Data	3
PHC 6251	Disaster and Emergency Epidemiology	3
PHC 6443	Ethical Issues in Public Health	3
PHC 6510	Advanced Infectious and Tropical Disease Epidemiology	3
PHC 6536	Health Demography	3
PHC 6591	Reproductive Health Epidemiology	3
PHC 6703	Epidemiology Methods: Experimental Design	3
PHC 6715	Survey Research in Public Health	3
PHC 6762	International Public Health	3
PHC 6907	Independent Study in Public Health	1-3
PHC 6934	Scientific Writing and Oral Presentation in Epidemiology	3
PHC 6595	Genetic Epidemiology	3
PHC 6034	Intermediate Epidemiology	3

* or any other advisor-approved elective, including those offered as Major in Epidemiology courses.

Practicum and Culminating Experience: (6 credits)

PHC 6945	Practicum in Public Health	3
PHC 6930C	Integrative Seminar in Public Health	3

PHC 6945 (Practicum) and PHC 6930C (culminating experience) are both required for all MPH students. The Practicum may be taken after completing a minimum of 30 hours, including all core courses. The Practicum may be waived if the student has at least 3 years of relevant practice experience working in a public health practice setting. The waiver request is prepared and submitted by the student, through their Faculty Advisor and Department Chair, for final approval/disapproval by the Academic Public Health Director. If the Practicum requirement is waived, the student will need to substitute 3 additional approved hours so that the total curriculum hour requirement of 45 is met. MPH students are expected to complete PHC 6930c Integrative Seminar in Public Health during their last semester in the program.

MPH in Epidemiology with a Concentration in Infectious Disease Epidemiology

The Master of Public Health Program major in Epidemiology with a concentration in Infectious Disease Epidemiology (INFDISEPI) is designed to prepare students to address the challenge of emerging and reemerging infectious diseases, especially for tropical locations such as Miami and South Florida.

Admission Requirements

Applicants must meet the University's general graduate admission requirements:

1. A Bachelor's degree or equivalent from an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level.
2. A minimum 3.0 GPA on the last 60 undergraduate hours. In addition, applicants are required to submit 1) a current resume; and 2) a written statement of purpose (career goals). Applicants are also required to submit three letters of recommendation.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required. Students with diverse backgrounds are encouraged to apply.
4. Submission of official GRE scores is optional. If a student decides to submit GRE scores, the scores must be less than 5 years old.

MPH Core Curriculum: (15 credits)

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6052	Biostatistics I	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3

Major in Epidemiology: (15 credits)

PHC 6002	Infectious Disease Epidemiology	3
PHC 6003	Chronic Disease Epidemiology	3
	or	
PHC 6008	Cardiovascular Disease Epidemiology	3
PHC 6013	Epidemiology II: Observational Design	3
PHC 6016	Social Epidemiology	3
	or	
PHC 6441	Epidemiology of Health Disparity	3
PHC 6091	Biostatistics II	3

Concentration in Infectious Disease Epidemiology (9 credits)

PHC 6009	AIDS Epidemiology and Control	3
PHC 6510	Advanced Infectious and Tropical Disease Epidemiology	3
PHC 6591	Reproductive Health Epidemiology	3

Practicum and Culminating Experience: (6 credits)

PHC 6945	Practicum in Public Health	3
PHC 6930C	Integrative Seminar in Public Health	3

PHC 6945 (Practicum) and PHC 6930C (culminating experience) are both required for all MPH students. The Practicum may be taken after completing a minimum of 30 hours, including all core courses. The Practicum may be waived if the student has at least 3 years of relevant practice experience working in a public health practice setting. The waiver request is prepared and submitted by the student, through their Faculty Advisor and Department Chair, for final approval/disapproval by the Academic Public Health Director. If the Practicum requirement is waived, the student will need to substitute 3 additional approved hours so that the total curriculum hour requirement of 45 is met. MPH students are expected to complete PHC 6930C Integrative Seminar in Public Health during their last semester in the program.

Combined MD and MPH - major in Epidemiology Degree Pathway

The Herbert Wertheim College of Medicine (HWCOM) and the Robert Stempel College of Public Health and Social Work (Stempel College) offer a combined degree pathway of a Master's of Public Health with a concentration in Epidemiology and a Doctor of Medicine.

An MPH is a professional public health degree emphasizing the understanding of population health and disease. The MD degree is a clinical medicine degree focusing on patient-centered clinical care.

Students may apply to the combined pathway in their third year of medical study. Each College will independently review and admit applicants to their programs. Only students admitted to both programs will enroll in classes in the combined program. Students will be expected to complete 45 credits for the MPH and all requirements for the MD degree.

Combined degree pathway students complete the first three years of coursework in the MD degree program at HWCOM. At the beginning of the fourth period of study of the MD degree program curriculum, students admitted to the combined degree pathway pause their medical studies and begin classes as part of the MPH program. Classes in the MPH program are taken during the fall, spring, and summer semesters of the medical student's fourth year of study. During this time, students complete 36 hours of course work in the MPH program. Nine credits taken through HWCOM count toward the 45 credits required for the MPH degree.

At the beginning of the fifth year, students resume study in Period 4 of the MD degree program curriculum. Students who successfully complete all requirements graduate with both degrees at the end of the 5 years.

Admissions Process:

Medical students in the summer or fall of their third (M3) year (prior to November 1st) must make a formal application to the COM MPH Application Committee.

This application will include a personal statement. They must also get approval from the MSEPC and the Executive Associate Dean for Academic Affairs prior to applying to the MPH program.

Applications will only then be reviewed by the MPH - Epidemiology program admission committee. Applicants to the combined MD/MPH pathway will not be required to submit GRE scores. MCAT scores will be accepted.

Doctor of Philosophy in Public Health Major in Epidemiology

The Doctor of Philosophy (Ph.D.) in Public Health is available with a major in Epidemiology. Students will be

expected to demonstrate significant research capacity by completing 60 credits beyond the Master's degree and through the writing of an original dissertation.

Doctoral Admissions

Applicants must meet the University's general graduate admission requirements:

1. A four-year bachelor's degree or equivalent from a nationally accredited institution or, in the case of foreign students, from a well-established institution of higher learning that is authorized to grant degrees by appropriate authorities in that country.
2. A minimum of a 3.0 GPA, "B" average, in the last 60 upper-division undergraduate coursework, or a graduate degree from a nationally accredited institution.
3. Official GRE scores (scores must be no more than five years old).
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or a 6.5 overall on the IELTS is required.

The College also requires:

1. A current resume.
2. Three letters of recommendation.
3. A writing sample (master's thesis or project, published manuscript, or other).
4. A personal statement of interest.

Potential applicants are strongly encouraged to contact individual faculty to discuss common research interests since admission decisions may require identification of a potential faculty mentor.

Doctoral Requirements

A student may enroll for dissertation credits after completing all coursework, passing the candidacy examination, and being advanced to candidacy. Dissertation credits cannot be taken before advancement to candidacy.

The candidacy examination will be prepared and graded by a committee consisting of a minimum of three faculty members. Admission to candidacy requires that a majority of the committee members agree that the student passed the examination.

After a doctoral student is admitted to candidacy, continuous registration for at least 3 dissertation credit hours each semester (including the summer term) is required until the dissertation requirement is fulfilled.

Required Courses

The program requires a minimum of 75 credit hours beyond the baccalaureate which includes a minimum of 15 hours of dissertation credits. There are three components to the College Ph.D. curriculum. The first is a core curriculum shared across all majors (12 credit hours). The second component is specific to the major (27 credit hours) and secondary field courses (12 credit hours). The third component consists of the dissertation, including a minimum of 15 dissertation credit hours. The remaining credit hours to add up to the minimum university requirement of 75 credits will be determined in consultation with the student's advisor.

Shared Core Courses: (12 credit hours required)

PHC 6091	Biostatistics 2	3
PHC 6601	Emerging Issues in Public Health	3
PHC 7705	Methods in Evidence-Based Public Health	3
PHC 7981	Research Concepts and Proposal Development	3

Courses for a Major in Epidemiology A minimum of 27 hours which include a minimum of 15 hours in methods courses and 12 hours (with a minimum of 9 at the 7000 level) in content courses.

Methods Courses: (15 credits hours required)

The following two methods courses are required (6 credits)

PHC 7011	Advanced Current Research in Epidemiology	3
PHC 7015	Advanced Research Methods: Experimental Design	3

Three additional methods courses are chosen from the below list (9 credits)

PHC 6056	Longitudinal Health Data Analysis	3
PHC 6059	Survival Data Analysis	3
PHC 6064	Applied Statistical Methods for Discrete Data	3
PHC 6080	SAS Computing for The Health Sciences	3
PHC 6099	R Computing for Health Sciences	3
PHC 7719	Quantitative Multivariate Analysis in Health Sciences Research	3

Content Courses: (12 credit hours required from the list of courses below)

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6001	Environmental and Occupational Epidemiology	3
PHC 6002	Infectious Disease Epidemiology	3
PHC 6003	Chronic Disease Epidemiology	3
PHC 6004	Injury Epidemiology and Prevention	3
PHC 6007	Cancer Epidemiology	3
PHC 6008	Cardiovascular Disease Epidemiology	3
PHC 6009	AIDS Epidemiology and Control	3
PHC 6013	Epidemiology II: Observational Design	3
PHC 6014	Behavioral Epidemiology	3
PHC 6016	Social Epidemiology	3
PHC 6020	Clinical Epidemiology	3
PHC 6062	Systematic Reviews and Meta-Analysis	3
PHC 6251	Disaster and Emergency Epidemiology	3
PHC 6441	Epidemiology of Health Disparity	3
PHC 6443	Ethical Issues in Public Health	3
PHC 6510	Advanced Infectious and Tropical Disease Epidemiology	3
PHC 6536	Health Demography	3
PHC 6591	Reproductive Health Epidemiology	3
PHC 6715	Survey Research in Public Health	3
PHC 6762	International Public Health	3
PHC 6907	Independent Study: Public Health	3
PHC 6934	Scientific Writing and Oral Presentation in Epidemiology	3
PHC 6939	Special Topics in Cardiovascular Disease Epidemiology	3
PHC 7017	Advanced Epidemiology of Health Disparity	3
PHC 7162	Grant Writing in Public Health	3
PHC 7982	Public Health Pre-Dissertation	

	Research	3
PHC 6595	Genetic Epidemiology	3
PHC 7606	Tobacco Use: Causes, Consequences, and Control	3

Secondary Field Courses: (12 credits required)

At least 12 credit hours of approved secondary field courses. Secondary field courses are selected from approved graduate school courses in consultation with academic advisor.

Dissertation Requirements: (A minimum of 15 dissertation credit hours required)

PHC 7980	Dissertation	15

For additional and updated information about degrees offered, entrance requirements, and services, please visit our website: **http://stempel.fiu.edu/students/advising/index.html**.

Health Policy and Management

Alejandro Arrieta, *Interim Chair, Associate Professor and PhD Program Director*
Carlos Espinal, *Research Professor*
Donna Davis, *Assistant Teaching Professor and MPH Program Director*
Gilbert Ramirez, *Visiting Professor*
Jessica L. Adler, *Associate Professor, Affiliate Faculty*
Noel Barengo, *Associate Professor, Affiliate Faculty*
Galed Hakim, *Adjunct Faculty*
Grace Litano, *Adjunct Faculty*
Osmel Delgado, *Adjunct Faculty*
Fredrick Newman, *Professor Emeritus*

The Department of Health Policy and Management is focused on training masters graduates to have careers in health care management, health economics and population health management. Doctoral students will train in health systems research to pursue careers in research, health policy and health system design. Students not interested in a degree can obtain a certificate in health policy or health economics.

MPH in Health Policy and Management

This degree is currently not admitting new students.

The masters in Health Policy and Management provides students with core skills in management, policy analysis, public health economics and how to use evidence in decision-making. Students get specialized training in continuous quality improvement (with an option of obtaining the Health Care Professional Quality Improvement Certification), health system budget finance, and risk management in health systems (supporting getting the state of Florida health care risk management certification). Students completing this masters are positioned to start or advance careers in hospitals or health systems. Students are required to complete 15 core MPH credits, 15 core HPM credits, 9 elective credits specific to work in hospitals and health systems, a 3 credit practicum and a 3 credit capstone course for a total of 45 credits.

Admission Requirements

Applicants must meet the University's general graduate admission requirements:

1. A Bachelor's degree or equivalent from an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level.
2. A minimum 3.0 GPA on the last 60 undergraduate hours. In addition, applicants are required to submit 1) a current resume; and 2) a written statement of purpose (career goals). Applicants are also encouraged to submit three letters of recommendation.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required. Students with diverse backgrounds are encouraged to apply.
4. Submission of official GRE scores are optional. If a student decides to submit GRE scores, the scores must be less than 5 years old.

MPH Core Curriculum: (15 credits)

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6052	Biostatistics I	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3

Major in Health Policy and Management: (15 credits)

PHC 6104C	Public Health Management and Leadership	3
PHC 6154C	Evidence Synthesis Applied to Clinical Settings and Health Policy-Making	3
PHC 6155C	Health Policy Analysis	3
PHC 6430C	Public Health Economics	3
PHC 6148	Strategic Planning for Healthcare Organizations	3

Concentration Courses: (9 credits)

For students with demonstrated experience in quality improvement, health care finance or risk management, other public health courses may be substituted with advisor approval.

PHC 6118	Population Health Management and Improvement	3
PHC 6160	Public Health Budgeting and Financial Management	3
PHC 6147	Continuous Quality Improvement in Healthcare Organization	3

Practicum and Culminating Experience: (6 credits)

PHC 6945	Practicum in Public Health	3
PHC 6930C	Integrative Seminar in Public Health	3

PHC 6945 (Practicum) and PHC 6930C (culminating experience) are both required for all MPH students. The Practicum may be taken after completing a minimum of 30 hours, including all core courses. The Practicum may be waived if the student has at least 3 years of relevant practice experience working in a public health practice setting. The waiver request is prepared and submitted by the student, through their Faculty Advisor and Department Chair, for final approval/disapproval by the Academic Public Health Director. If the Practicum requirement is waived, the student will need to substitute 3 additional approved hours so that the total curriculum hour requirement of 45 is met. MPH students are expected to complete PHC 6930c Integrative Seminar in Public Health during their last semester in the program.

For additional and updated information about degrees offered, entrance requirements, and services, please visit our website:
http://stempel.fiu.edu/students/advising/index.html.

Doctor of Philosophy in Public Health Major in Health Systems Research

This degree is currently not admitting new students.

The Doctor of Philosophy (Ph.D.) in Public Health is available with a major in Health Systems Research. Students will be expected to demonstrate significant research capacity through the writing of an original dissertation.

Doctoral Admissions

Applicants must meet the University's general graduate admission requirements:

1. A four-year bachelor's degree or equivalent from a nationally accredited institution or, in the case of foreign students, from a well-established institution of higher learning that is authorized to grant degrees by appropriate authorities in that country.
2. A minimum of a 3.0 GPA, “B” average, in the last 60 upper-division undergraduate credits, or a graduate degree from a nationally accredited institution.
3. Official GRE scores (scores must be no more than five years old).
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or a 6.5 overall on the IELTS is required.

The College also requires:

1. A current resume.
2. Three letters of recommendation.
3. A writing sample (master's thesis or project, published manuscript, or other).
4. A personal statement of interest.

Potential applicants are strongly encouraged to contact individual faculty to discuss common research interests, since admission decisions require identification of a faculty mentor.

Doctoral Requirements

A student may enroll for dissertation credits after completing all coursework, passing the candidacy examination, and being advanced to candidacy. Dissertation credits cannot be taken before advancement to candidacy.

The candidacy examination will be prepared and graded by a committee consisting of a minimum of three faculty members. Admission to candidacy requires a majority of the committee members agree the student passed the examination. A candidacy examination may not be passed conditionally. A “Pass” on the examination cannot be made contingent upon other factors such as the completion of additional coursework or the preparation of extra research projects. Students will be allowed only two attempts to pass the candidacy examination.

After a doctoral student is admitted to candidacy, continuous registration for at least three dissertation credits is required until the dissertation requirement is fulfilled.

Required Courses

The program requires a minimum of 75 credit hours beyond the baccalaureate, including a minimum of 15 hours of dissertation credits. There are three components to the College Ph.D. curriculum. The first component is a core curriculum shared across all public health majors (12 credit hours). The second component is specific to Health Systems Research (36 credit hours) and doctoral seminar (12 credit hours). The third component consists of the dissertation, including 15 dissertation credit hours.

Shared Core Courses: (12 credits required)

PHC 6601	Emerging Issues in Public Health	3
PHC 6091	Biostatistics 2	3
PHC 7981	Research Concepts and Proposal Development	3
PHC 7705	Methods in Evidence Based Public Health	3

Courses for Health Systems Research Major: A minimum of 48 credit hours which include a minimum of 12 hours in Methods Courses, 24 hours in Content Courses, and 12 credits of doctoral seminar.

Methods Courses: (12 credits)

PHC 7095C	Advanced Methods for Health Systems Research	4
PHC 7XXX	Advanced Methods for Health Policy Evaluation	4
PHC 7753C	Applied Econometrics for Health Systems Research	4

Content Courses: (24 credits required)

PHC 6155C	Health Policy Analysis	3
PHC 6118	Population Health Management and Improvement I	3
PHC 6154	Evidence Synthesis Applied to Clinical Settings and Health Policy-Making	3
PHC 6430C	Public Health Economics	3
PHC 7908C	Health Systems Research Readings I	3
PHC 7909C	Health Systems Research Readings II	3
PHC 7982	Public Health Pre Dissertation Research	6

Doctoral Seminar: (12 credits required)

HSC 7935C	Doctoral Seminar in Health Systems Research	2

Students will be required to participate in the doctoral seminar during Fall and Spring semesters of the first three years in the program.

Dissertation Requirements: (15 credits required)

PHC 7980	Dissertation	15

BA Psychology/Public Health Policy MPH Degree Pathway

This degree pathway is currently not admitting new students.

The BA/MPH pathway is designed for outstanding undergraduate students. It provides a strong base of knowledge and skills in psychology, and at the same time accelerates completion of the Master of Public Health degree. Students may take advantage of the overlap of courses in the BA and MPH programs to receive their MPH degrees in a shorter period than it would otherwise be possible.

Admission Requirements

To apply, their GPA needs to be significantly above average (3.25). Students would also be required to maintain a high GPA (3.0) to remain in the pathway. The grade requirements for an MPH in Health Policy and Management would apply to courses that are counted toward the MPH degree.

• Current enrollment in the Bachelor's degree program in psychology at FIU.
• Current GPA of 3.25 or higher.
• Three letters of recommendation.
• Approval of the Health Policy and Management admissions committee.
• Submission of official GRE scores is optional. If a student decides to submit GRE scores, the scores must be less than 5 years old.

General Requirements
Meet the requirements of both the BA in Psychology and the MPH in Health Policy and Management.
Four courses (12 credits) will be used to satisfy both the Bachelor's in Psychology and the MPH degree requirements. Students will take the following MPH courses as electives during their final year in the BA program:

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6052	Biostatistics I	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6410	Health Behavior and Public Health	3

MSW/MPH Program in Health Policy & Management (HPM) Degree Pathway

This degree pathway is currently not admitting new students

The MSW/MPH in Health Policy & Management degree pathway is an interdisciplinary, three-year pathway incorporating knowledge and skills from social work and public health with a concentration in clinical social work and Health Policy & Management. The first year will consist of social work courses, followed by mainly public health courses in the second year, and a combination of social work and public health courses in the final year.
The required credits for the pathway would be 90 credits.

Admissions:

- Students will need to apply to and be accepted into each degree program separately in order to qualify for the combined degree pathway. Students will have to meet the regular admissions criteria for each program.
- If a student is already in progress with either the MSW or MPH, the application to the other degree program will need to be submitted by the end of the 1st year of coursework. At that time, the student must notify both programs that they are interested in pursuing the combined degree.

Required Courses
Year One
Fall (14 credits)

SOW 5105	Human Behavior and the Social Environment I	3
SOW 5235	Social Welfare Policy and Services I	3
SOW 5342	Social Work Practice with Individuals and Families	3
SOW 5379L	Interviewing Skills Lab	2
SOW 5404	Social Work Research Methodology	3

Spring (13 credits)

SOW 5344	Theory and Practice with Communities & Organizations	3
SOW 5629	Social Work Practice with Diverse Populations	3
SOW 5324	Theory and Practice with Groups	3
SOW 5532	Field Practicum I	3

Summer (6 credits)

SOW 6125	Human Behavior and the Social Environment II	3
	Social Work Elective	3

Year Two
Fall (9 credits)

PHC 6052	Biostatistics I	3
PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to PH Health Policy & Management (Online)	3

Spring (9 credits)

PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3
PHC 6104C	Public Health Management and Leadership	3

Summer (9 credits)

PHC 6154C	Evidence-Based Health Policy for PH	3
	HPM Elective	3
SOW 6435	Evaluating Empirically Based Social Work Practice	3

Year Three
Fall (9 credits)

PHC 6155C	Health Policy Analysis	3
PHC 6430C	Public Health Economics	3
	Social Work Elective	3

Spring (9 credits)

PHC 6063C	Health Policy Database Applications	3
SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3

Summer (12 credits)

PHC 6930	Integrative Seminar in Public Health	3
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3

Substitutions:
• PHC 6155C Health Policy Analysis may substitute for SOW 6236 Social Welfare Policy Services II
• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health
• Students must take 2 electives in social work, and 1 elective in HPM. One of those social work electives will be substituted for the 2nd HPM elective usually required.
• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health

MSW/MPH Program in Health Policy & Management (HPM) with Advanced Standing Status Degree Pathway

This degree pathway is currently not admitting new students.

The MSW/MPH in Health Policy & Management with Advanced Standing degree pathway is an interdisciplinary, two-year accelerated pathway incorporating knowledge and skills from social work and public health with a concentration in clinical social work and Health Policy & Management. Only students who already have an

undergraduate degree in social work and meet the criteria for the advanced standing MSW may apply to this accelerated pathway. Both the first and second years of the program will involve social work and public health courses.

The required credits for the pathway would be 63 credits.

Admissions

- Students will need to apply to and be accepted into each degree program separately in order to qualify for the combined degree pathway.
- For the MSW/MPH with advanced standing degree pathway, admission to both programs must occur prior to beginning any coursework. At the time of admission, the students must notify both programs that they are interested in pursuing the combined degree with advanced standing in social work pathway.

Required Courses

Year One

Fall (9 credits)

PHC 6052	Biostatistics I	3
PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to PH Health Policy & Management (Online)	3

Spring (9 credits)

PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3
PHC 6104C	Public Health Management and Leadership	3

Summer (9 credits)

PHC 6154C	Evidence-Based Health Policy for PH	3
PHC 6147C	Continuous Quality Improvement in Healthcare Organizations	3
SOW 6435	Evaluating Empirically Based Social Work Practice	3

Year Two

Fall (9 credits)

PHC 6155C	Health Policy Analysis	3
PHC 6430C	Public Health Economics	3
	Social Work Elective	3

Spring (9 credits)

PHC 6160	Public Health Budgeting and Financial Management	3
SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3

Summer (12 credits)

PHC 6930	Integrative Seminar in Public Health	3
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3

Substitutions:

• PHC 6155C Health Policy Analysis may substitute for SOW 6236 Social Welfare Policy Services II

• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health

• Students must take 2 electives in social work, and 1 elective in HPM. One of those social work electives will be substituted for the 2nd HPM elective usually required.

• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health

Health Promotion and Disease Prevention

Elena Bastida, *Professor and Chair*
Michael Anastario, *Assistant Professor*
Frank William Joseph Anderson*, Courtesy Professor*
Rashida Biggs, *Clinical Assistant Professor*
William W. Darrow, *Professor Emeritus*
Jessy Devieux, *Professor*
Melissa Howard, *Clinical Associate Professor*
H. Virginia McCoy, *Professor Emeritus*
Jason Mitchell, *Associate Professor*
Patria Rojas, *Associate Professor*
Mariana Sanchez, *Assistant Professor*

The Department offers Graduate Certificates, a Master's degree in Public Health (MPH) with a major in Health Promotion and Disease Prevention, MPH in Health Promotion and Disease Prevention with a Concentration in Maternal and Child Health, and a Ph.D. in Public Health with a major in Health Promotion and Disease Prevention.

MPH in Health Promotion and Disease Prevention

The courses prepare students to develop and implement health promotion/health education programs in various sites. This program of study is concerned with personal and public health lifestyles, identification of risk factors and behavioral change strategies that promote positive health behaviors of individuals, groups, and community. See also Graduate Certificates in Health Promotion and Maternal and Child Health, which do not require enrollment in the MPH degree program.

Admission Requirements

Applicants must meet the University's general graduate admission requirements:

1. A Bachelor's degree or equivalent from an accredited college or university or, in the case of foreign students, an institution recognized in its own country as preparing students for further study at the graduate level.
2. A minimum 3.0 GPA on the last 60 undergraduate hours. In addition, applicants are required to submit 1) a current resume; 2) a written statement of purpose (career goals). Applicants are also encouraged to submit three letters of recommendation.
3. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required. Students with diverse backgrounds are encouraged to apply.
4. Submission of official GRE scores is optional. If a student decides to submit GRE scores, the scores must be less than 5 years old.

MPH Core Curriculum: (15 credits)

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6052	Biostatistics I	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3

Major in Health Promotion and Disease Prevention: (12 credits)

PHC 6146	Health Promotion Program Planning and Intervention Design	3
PHC 6602	Theoretical Foundations of Health Promotion	3
PHC 6706	Research Methods in Public Health	3
PHC 6750	Program Development and Evaluation in Health Promotion	3

Elective Courses: (12 credits)

Electives may be selected from the following list of Health Promotion and Disease Prevention courses. Students must consult with a faculty advisor for approval prior to selecting elective courses not on this list.

PHC 5009	AIDS: Contemporary Issues	3
PHC 5113	Community Health Promotion Planning and Research	3
PHC 5409	Public Health Behavior Change Theory and Practice	3
PHC 5415	Public Health in Minority Urban Populations	3
PHC 6412	Health Promotion in Culturally Diverse Communities	3
PHC 6443	Ethical Issues in Public Health	3
PHC 6504	Introduction to Health Education and Wellness	3
PHC 6530	Principles of Maternal and Child Health	3
PHC 6580	Contemporary Issues in Health Promotion	3
PHC 6589	Health Promotion in Institutional Settings	3
PHC 6600	Health Promotion Communication Theory and Design	3
PHC 6715	Survey Research in Public Health	3
PHC 6751	Community Organization for Health Promotion	3
PHC 6762	International Public Health	3

Practicum and Culminating Experience: (6 credits)

PHC 6945	Practicum in Public Health	3
PHC 6930C	Integrative Seminar in Public Health	3

PHC 6945 (Practicum) and PHC 6930C (culminating experience) are both required for all MPH students. The Practicum may be taken after completing a minimum of 30 hours, including all core courses. The Practicum may be waived if the student has at least 3 years of relevant practice experience working in a public health practice setting. The waiver request is prepared and submitted by the student, through their Faculty Advisor and Department Chair, for final approval/disapproval by the Academic Public Health Director. If the Practicum requirement is waived, the student will need to substitute 3 additional approved hours so that the total curriculum hour requirement of 45 is met. MPH students are expected to complete PHC 6930c Integrative Seminar in Public Health during their last semester in the program.

MPH in Health Promotion and Disease Prevention with a Concentration in Maternal and Child Health

The total credit requirement for the MPH is 45 credits. The MCH Concentration is organizationally housed in the MPH Health Promotion and Disease Prevention major which includes five courses (15 credits) in the MPH Core Curriculum, four courses (12 credits) in the HPDP Major and 2 courses (6 credits) in the Practicum and Culminating Experience. The other 12 credits, as noted below will include the MCH required and MCH elective coursework.

MPH Core Curriculum: (15 credits)

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6052	Biostatistics I	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3

Major in Health Promotion and Disease Prevention: (12 credits)

PHC 6146	Health Promotion Program Planning and Intervention Design	3
PHC 6602	Theoretical Foundations of Health Promotion	3
PHC 6706	Research Methods in Public Health	3
PHC 6750	Program Development and Evaluation in Health Promotion	3

Maternal and Child Health Required Courses: (6 credits)

PHC 6530	Principles of Maternal and Child Health	3
PHC 6537	Case Studies in Maternal and Child Health Programs, Policies and Research	3

Elective Courses: (6 credits)

Electives may be selected from the following list of Maternal and Child Health courses. Students must consult with a faculty advisor for approval prior to selecting elective courses not on this list.

SOW 5240	Advanced Interventions in Child Maltreatment	3
PHC 6063C	Health Policy Database Applications I	3
PHC 6531	Environmental Justice in MCH	3
PHC 6591	Reproductive Health Epidemiology	3
PHC 6504	Introduction to Health Education and Wellness	3
PHC 6762	International Public Health	3
PHC 6754C	Analytic Methods in MCH	3
HUN 6415	Pediatric Nutrition	3

Practicum and Culminating Experience: (6 credits)

PHC 6945	Practicum in Public Health	3
PHC 6930C	Integrative Seminar in Public Health	3

The practicum may be waived if the student has at least 3 years of relevant public health practice experience, and substituted for 3 additional MCH elective credit hours.

Doctor of Philosophy in Public Health Major in Health Promotion and Disease Prevention

The Doctor of Philosophy (Ph.D.) in Public Health is available with a major in Health Promotion and Disease Prevention. Students will be expected to demonstrate significant research capacity by completing 60 credits beyond the Master's degree and through the writing of an original dissertation.

Doctoral Admissions

Applicants must meet the University's general graduate admission requirements:

1. A four-year bachelor's degree or equivalent from a nationally accredited institution or, in the case of foreign students, from a well-established institution of higher learning that is authorized to grant degrees by appropriate authorities in that country.
2. A minimum of a 3.0 GPA, "B" average, in the last 60 upper-division undergraduate coursework, or a graduate degree from a nationally accredited institution.
3. Official GRE scores (scores must be no more than five years old).
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or a 6.5 overall on the IELTS is required.

The College also requires:

1. A current resume.
2. Three letters of recommendation.
3. A writing sample (master's thesis or project, published manuscript, or other).
4. A personal statement of interest.

Potential applicants are strongly encouraged to contact individual faculty to discuss common research interests since admission decisions may require identification of a potential faculty mentor.

Doctoral Requirements

A student may enroll for dissertation credits after completing all coursework, passing the candidacy examination, and being advanced to candidacy. Dissertation credits cannot be taken before advancement to candidacy.

The candidacy examination will be prepared and graded by a committee consisting of a minimum of three faculty members. Admission to candidacy requires that a majority of the committee members agree that the student passed the examination. A candidacy examination may not be passed conditionally. A "Pass" on the examination cannot be made contingent upon other factors such as the completion of additional coursework or the preparation of extra research projects. Students will be allowed only two attempts to pass the candidacy examination.

After a doctoral student is admitted to candidacy, continuous registration for at least 3 dissertation credit hours each semester (including the summer term) is required until the dissertation requirement is fulfilled.

Required Courses

The program requires a minimum of 75 credit hours beyond the baccalaureate which includes a minimum of 15 credit hours of dissertation credits. There are three components to the College Ph.D. curriculum. The first is a core curriculum shared across all majors (12 credit hours).

The second component is specific to the major (30 credit hours) and secondary field courses (9 credit hours). The third component consists of the pre-dissertation research and/or elective courses (9 credit hours), and the dissertation, including 15 dissertation credit hours.

Shared Core Courses: (12 credits)- Required

PHC 6601	Emerging Issues in Public Health	3
PHC 6091	Biostatistics 2 (or other approved Quantitative Methods course)	3
PHC 7981	Research Concepts and Proposal Development	3
PHC 7705	Methods in Evidence Based Public Health	3

Courses for Health Promotion and Disease Prevention Major

A minimum of 27 hours which include a minimum of 9 hours in Methods Courses and 18 hours (with minimum of 9 at the 7000 level) in Content Courses.

Methods Courses*: (12 credits)- Required

Major advisor and the program committee for the student will identify appropriate methods courses from an approved list.

PHC 6055	Data Management and Epidemiologic Analysis Using SAS/SPSS	3
PHC 7198	Advanced Qualitative Methods in Public Health	3
PHC 7723	Survey Research in Public Health	3
PHC 7702	Advanced Measurement in Public Health	3

*or other advisor-approved methods course

Content Courses: (18 credits)- Required

PHC 6443	Ethical Issues in Public Health	3
PHC 7162	Grant Writing in Public Health	3
PHC 7583	Policy and Practice in Health Promotion	3
PHC 7584	Advanced Research Designs	3
PHC 7587	Theory Development in Health Promotion	3
PHC 7588	History and Foundations of Public Health	3

Secondary field courses or Additional Concentration Outside of Major: (9 credits)- Required 9

Courses to be selected in consultation with advisor from University offerings in a focused area appropriate to public health.

Pre- Dissertation Research and/or Electives (in any combination): (9 credits)- Required

PHC 7982	Pre-Dissertation Research	3-9

Dissertation Requirements:(15 credits)- Required

PHC 7980	Dissertation	15

For additional and updated information about degrees offered, entrance requirements, and services, please visit our website: **http://stempel.fiu.edu/students/advising/index.html**.

Doctor of Philosophy in Public Health Major in Health Promotion and Disease Prevention-Health Disparities Track

The Doctor of Philosophy (Ph.D.) in Public Health is available with a major in Health Promotion and Disease Prevention. Students will be expected to demonstrate significant research capacity by completing 60 credits beyond the Master's degree and through the writing of an original dissertation.

Doctoral Admissions

Applicants must meet the University's general graduate admission requirements:

1. A four-year bachelor's degree or equivalent from a nationally accredited institution or, in the case of foreign students, from a well-established institution of higher learning that is authorized to grant degrees by appropriate authorities in that country.
2. A minimum of a 3.0 GPA, "B" average, in the last 60 upper-division undergraduate coursework, or a graduate degree from a nationally accredited institution.
3. Official GRE scores (scores must be no more than five years old).
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or a 6.5 overall on the IELTS is required.

The College also requires:

1. A current resume.
2. Three letters of recommendation.
3. A writing sample (master's thesis or project, published manuscript, or other).

Potential applicants are strongly encouraged to contact individual faculty to discuss common research interests since admission decisions may require identification of a potential faculty mentor.

Doctoral Requirements

A student may enroll for dissertation credits after completing all coursework, passing the candidacy examination, and being advanced to candidacy. Dissertation credits cannot be taken before advancement to candidacy.

The candidacy examination will be prepared and graded by a committee consisting of a minimum of three faculty members. Admission to candidacy requires that a majority of the committee members agree that the student passed the examination. A candidacy examination may not be passed conditionally. A "Pass" on the examination cannot be made contingent upon other factors such as the completion of additional coursework or the preparation of extra research projects. Students will be allowed only two attempts to pass the candidacy examination.

After a doctoral student is admitted to candidacy, continuous registration for at least 3 dissertation credit hours each semester (including the summer term) is required until the dissertation requirement is fulfilled.

Required Courses

The program requires a minimum of 75 credit hours beyond the baccalaureate which includes a minimum of 15 credit hours of dissertation credits. There are three components to the College Ph.D. curriculum. The first is a core curriculum shared across all majors (12 credit hours). The second component is specific to the major (30 credit hours) and secondary field courses (9 credit hours). The

third component consists of the pre-dissertation research and/or elective courses (9 credit hours), and the dissertation, including 15 dissertation credit hours.

Shared Core Courses: (12 credits)

PHC 6601	Emerging Issues in Public Health	3
PHC 6091	Biostatistics 2 (or other approved Quantitative Methods course)	3
PHC 7981	Research Concepts and Proposal Development	3
PHC 7705	Methods in Evidence Based Public Health	3

Courses for Health Promotion and Disease Prevention Major-Health Disparities Track

A minimum of 30 hours which include a minimum of 12 hours in Methods Courses and 18 hours (with minimum of 9 at the 7000 level) in Content Courses.

Methods Courses*: (12 credits) - Required

Major advisor and the program committee for the student will identify appropriate methods courses from an approved list.

PHC 6055	Data Management and Epidemiologic Analysis Using SAS/SPSS	3
PHC 7198	Advanced Qualitative Methods in Public Health	3
PHC 7723	Survey Research in Public Health	3
PHC 7702	Advanced Measurement in Public Health	3

*or other advisor-approved methods course

Content Courses: (18 credits) - Required

PHC 6443	Ethical Issues in Public Health	3
PHC 7932	Health Disparities Training and Development Seminar	3
PHC 7017	Advanced Epidemiology of Health Disparity	3
PHC 7584	Advanced Research Designs	3
PHC 7587	Theory Development in Health Promotion	3
PHC 7588	History and Foundations of Public Health	3

Secondary field courses or Additional Concentration Outside of Major: (9 credits) - Required

PHC 7466	Policy and Advocacy in Global Health Disparities	3
PHC 7733	Theoretical Paradigms of Health Disparities Research	3
PHC 6907	Independent Studies in Public Health or Elective	3

Pre- Dissertation Research and/or Electives(in any combination): (9 credits) - Required

PHC 7982	Pre-Dissertation Research and/or Electives (in any combination): (3-9 credits required)	

Dissertation Requirements: (15 credits)

PHC 7980	Dissertation	15

For additional and updated information about degrees offered, entrance requirements, and services, please visit our website: http://stempel.fiu.edu/students/advising/index.html.

Master of Social Work/ Master of Public Health in Health Promotion and Disease Prevention (HPDP) Degree Pathway

The MSW/MPH in Health Promotion and Disease Prevention degree pathway will be an interdisciplinary, three-year pathway incorporating knowledge and skills from social work and public health with a concentration in clinical social work and Health Promotion and Disease Prevention. The first year will consist of social work courses, followed by public health courses in the second year, and a combination of social work and public health courses in the final year. The required credits for the pathway would be 90 credits.

Admissions Requirements

- Students will need to apply to and be accepted into each degree program separately in order to qualify for the combined degree pathway. Students will have to meet the regular admissions criteria for each program.
- If a student is already in progress with either the MSW or MPH, the application to the other degree program will need to be submitted by the end of the 1st year of coursework. At that time, the student must notify both programs that they are interested in pursuing the combined degree pathway**.**

Required Courses

Year One

Fall (14 credits)

SOW 5105	Human Behavior and the Social Environment I	3
SOW 5235	Social Welfare Policy and Services I	3
SOW 5342	Social Work Practice with Individuals and Families	3
SOW 5379L	Interviewing Skills Lab	3
SOW 5404	Social Work Methodology	3
	or	
PHC 6706	Research Methods in Public Health	3

Spring (13 credits)

SOW 5344	Theory and Practice with Communities & Orgs	3
SOW 5324	Theory and Practice with Groups	3
SOW 5532	Field Practicum I	3
SOW 5629	Social Work Practice with Diverse Populations	3

Summer (6 credits)

SOW 6125	Human Behavior and the Social Environment II	3
	Social Work Elective	3

Year Two

Fall (9 credits)

PHC 6052	Biostatistics I	3
PHC 6602	Theoretical Foundations of Health Promotion	3
PHC 6410	Health Behavior and Public Health	3

Spring (9 credits)

PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to PH Health Policy & Management	3

Summer (6 credits)

	Public Health Elective	3
	Public Health Elective	3

Year Three

Fall (12 credits)

	Social Work Elective	3
PHC 6146	Health Promotion Program Planning and Intervention Design	3
SOW 6236	Social Welfare Policy & Services II	3
SOW 6435	Evaluating Empirically Based Social Work Practice	3

Spring (9 credits)

SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3
PHC 6750	Program Development & Evaluation for Health Promotion	3

Summer (12 credits)

PHC 6930	Integrative Seminar in Public Health	3
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3

Substitutions:

• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health.

• Students may choose to take either PHC 6706 Research Methods in Public Health or SOW 5404 Social Work Research Methodology.

• Students must take two (2) electives in social work and two (2) electives in HPDP. The two (2) social work electives may substitute for the 3rd and 4th HPDP electives usually required.

• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health.

MSW/MPH Program in Health Promotion and Disease Prevention (HPDP) with MSW Advanced Standing Status Degree Pathway

The MSW/MPH in Health Promotion and Disease Prevention with Advanced Standing degree pathway will be an interdisciplinary, two-year accelerated program incorporating knowledge and skills from social work and public health with a concentration in clinical social work and Health Promotion and Disease Prevention. Only students who already have an undergraduate degree in social work and meet the criteria for the advanced standing MSW may apply to this accelerated pathway. Both the first and second years of the pathway will involve social work and public health courses.

Admissions Process:

- Students will need to apply to and be accepted into each degree program separately in order to qualify for the combined degree pathway.
- For the MSW/MPH with advanced standing, admission to both programs must occur prior to beginning any coursework. At the time of admission, the students will need to notify both programs that they are interested in pursuing the combined degree pathway with advanced standing in social work.

Required Courses:

The required credits for the program is 66 credits.

Year One

Fall (12 credits)

SOW 6125	Human Behavior and the Social Environment II	3
PHC 6052	Biostatistics I	3
PHC 6146	Health Promotion Program Planning and Intervention Design	3
PHC 6410	Health Behavior and Public Health	3

Spring (12 credits)

PHC 6750	Program Development & Evaluation for Health Promotion	3
PHC 6000	Intro to Public Health Epidemiology	3
PHC 6102	Intro to PH Health Policy & Management	3
SOW 6435	Evaluating Empirically Based Social Work Practice	3

Summer (9 credits)

Public Health Elective (3)
Public Health Elective (3)
Social Work Elective (3)*

Year Two

Fall (12 credits)

SOW 6236	Social Welfare Policy & Services II	3
PHC 6602	Theoretical Foundations of Health Promotion	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6706	Research Methods in Public Health	3

Spring (9 credits)

SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3
	Social Work Elective	3

Summer (12 credits)

PHC 6930	Integrative Seminar in Public Health	3
SOW 6534	Field Practicum III	6
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3

Substitutions:

• SOW 6533 Field Practicum II may substitute for PHC 6945 Practicum in Public Health with approval from internship coordinator in public health.

• Students must take two (2) electives in social work and two (2) electives in HPDP. The two (2) social work electives may substitute for the 3rd and 4th HPDP electives usually required.

• MSW/MPH students do not have to take PHC 6500 Foundations in Public Health.

Certificate Programs

Graduate Certificate in Addictions

This graduate certificate provides specialized advanced clinical training for social work students and professionals working in the addictions field. It will meet all of the classroom educational requirements laid out by the State of Florida for certification through the Florida Certification Board. This certificate program is open to degree-seeking students only.

Requirements: (30 credits)

SOW 5105	Human Behavior and the Social Environment I or BSSW equivalent	3
SOW 6125	Human Behavior and the Social Environment II – Psychopathology	3
SOW 5324	Theory and Practice with Groups or BSSW equivalent	3
SOW 5342	Social Work Practice with Individuals & Families or BSSW equivalent	3
SOW 5629	Social Work Practice with Diverse Populations or BSSW equivalent	3
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3
SOW 6435	Evidence-Based Social Work Practice	3
SOW 5710	Current Issues in Addiction Practices	3
SOW 6114C	Assessment & Treatment of Addiction & Related Problems	3
SOW 6711	Prevention of Addiction & Related Problems	3

Graduate Certificate in Child Welfare

This Graduate Certificate in Child Welfare (GCCW) will provide specialized training in child protection and child welfare services. Students who are awarded the GCCW will be prepared for work with neglected and abused children, their families, and the social service organizations that serve them. A total of 18 graduate credits are required for this certificate. This certificate program is open to degree-seeking students only.

Required Courses: (18 credits)

SOW 5240	Advanced Interventions in Child Maltreatment	3
SOW 5241	Advanced Child Welfare Policy and Practice	3
SOW 6533	Field Practicum II (in a Child Welfare agency)	3
SOW 6534	Field Practicum III (in a Child Welfare agency)	6
SOW 6425	Clinical Assessment and Intervention Planning	3

Graduate Certificate Program in Environmental Health Sciences

This Graduate Certificate provides a graduate level instruction to educate and support individuals in the public health and global health workforce by enhancing their knowledge and skills in environmental health research and practice to influence policies. Upon completion of the certificate, the student will be able to identify and assess toxicity to manage environmental (including workplace) exposures of chemical, biological, and radiological risks to human health. This certificate program is open to non-degree-seeking individuals only.

Program Requirements

The Graduate Certificate Program requires the completion of 18 graduate credits. The student must demonstrate proficiency in the identification and characterization of human health risks from exposures to environmental and workplace contaminants. Students who are proficient in any one area covered by the required courses may choose from selected alternative courses to complete their requirements.

Required Courses (12 credits)

PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6355	Environmental Health and Safety	3
PHC 6310	Environmental Toxicology	3
PHC 6311	Environ. Health Risk Assessment	3

Elective Courses (6 credits)

PHC 6374	Environ. Disasters & Human Health	3
PHC 6538	Gene and Environment Interaction	3
PHC 6312C	Health Impacts of Air, Water, and Land Pollution	3
PHC 6442	Global Environmental Public Health	3
PHC 6224	Regulatory Aspects of Environmental Health	3

Admission Requirements

Applicants must hold a bachelor's degree or equivalent from an accredited college or university. Science or biology related background with a graduate course in biostatistics, statistics, or social science statistics is desirable.

Graduation (completion) Requirements

Completion of 18 graduate credits with an overall 'B' average.

Graduate Certificate in Epidemiology

This Graduate Certificate seeks to provide graduate level instruction in epidemiology to non-graduate-degreed practitioners. Students shall be provided with a scientific foundation to utilize the fundamentals of biometry to describe and study variables related to disease risk, and to organize and maintain databases, while at the same time be provided with opportunities for practical application. This certificate program is open to non-degree-seeking students only.

Program Requirements

The Graduate Certificate requires the completion of 18 graduate credits. The student must demonstrate proficiency in research methodology, basic statistical and computer skills related to distribution and determinants of disease. If students are proficient in any one area covered by the required courses, alternative courses may be selected. Substitution of courses must be approved by the advisor. Students should consult with advisors since new courses are frequently added, and some courses have prerequisites and enrollment stipulations.

Required Courses: (6 credits)

PHC 6000	Epidemiology I: Introduction to Public

	Health Epidemiology	3
PHC 6013	Epidemiology II: Observational Design	3

Elective Courses: (12 credits)
Students may select 12 credits from the following courses:

PHC 6003	Chronic Disease Epidemiology	3
PHC 6008	Cardiovascular Disease Epidemiology	3
PHC 6009	AIDS Epidemiology and Control	3
PHC 6014	Behavioral Epidemiology	3
PHC 6016	Social Epidemiology	3
PHC 6703	Epidemiology Methods: Experimental Design	3
PHC 6062	Systematic Reviews and Meta-Analysis	3
PHC 6441	Epidemiology of Health Disparity	3
PHC 6536	Health Demography	3

Admission Requirements

Applicants must hold a bachelor's degree or equivalent from an accredited college or university.

Graduation (completion) Requirements

Completion of 18 graduate credits with an overall 'B' average.

Graduate Certificate in Health Economics

This certificate program is currently not admitting new students

The graduate certificate program requires the completion of 15 graduate credits. This certificate program is open to non-degree-seeking students only.

Required Courses: (15 credits)

PHC 6430C	Public Health Economics	3
PHC 6063C	Health Policy Database Applications I	3
PHC 6087C	Health Policy Database Applications II	3
PHC 6102	Introduction to Public Health Policy and Management	3
PHC 6436	Advanced Issues in Economic Evaluation of Health Care Programs	3

Graduation (completion) Requirements

To complete the certificate, students will be required to maintain an overall 3.0 GPA.

Graduate Certificate in Health Promotion

The Graduate Certificate Program seeks to provide graduate level instruction in health promotion to non-graduate- degreed practitioners. Students will gain a scientific foundation for designing, conducting, and evaluating health promotion programs in public health, while at the same time benefit from numerous opportunities for practical application. This certificate program is open to non-degree-seeking students only.

Program Requirements

The Graduate Certificate Program requires completion of 18 graduate credits. The student must demonstrate proficiency in health promotion and design, implantation, and evaluation. If students are proficient in any one area covered by the required courses, alternative courses must be approved by the advisor. A graduate statistics course (biostatistics, social statistics) is a prerequisite.

Students should consult with advisors since new courses are frequently added, and some courses have prerequisites and enrollment stipulations.

Required Courses[1]: (15 credits)

PHC 6146	Health Promotion Program Planning and Intervention Design	3
PHC 6410	Health Behavior in Public Health	3
PHC 6602	Theoretical Foundations of Health Promotion	3
PHC 6706	Research Methods in Public Health	3
PHC 6750	Program Development and Evaluation in Health Promotion	3

A three hour elective course must be selected.

[1]If students are proficient in any one area covered by the required courses, the following elective courses may be substituted:

Approved Electives: (3 credit maximum)

PHC 5009	AIDS: Contemporary Issues	3
PHC 5409	Public Health Behavior Change Theory and Practice	3
PHC 5415	Public Health in Minority/Urban Population	3
PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6443	Ethical Issues in Public Health	3
PHC 6504	Introduction to Health Education and Wellness	3
PHC 6530	Principles of Maternal and Child Health	3
PHC 6580	Contemporary Issues in Health Promotion	3
PHC 6600	Health Promotion Communication Theory and Design	3
PHC 6751	Community Organization for Health Promotion	3
PHC 6762	International Public Health	3

Admission Requirements

Applicants must hold a bachelor's degree or equivalent from an accredited college or university.

Graduation (completion) Requirements

Completion of 18 graduate credits with an overall 'B' average.

Graduate Certificate in Management in Social Work

This graduate certificate provides specialized management training for social work students and professionals planning to enter or work in managerial positions in the social work field. Courses do not meet elective requirements for MSW clinical program. All certificate students will be required to take the three required courses as well as the two from the approved list. This certificate program is open to degree-seeking students only.
(Note: This certificate is currently under revision. Please check with the Student Services Coordinator in the School of Social Work for information).

Requirements: (15 credits)

Required Courses

SOW 5344	Theory & Practice with Communities & Organizations	3
PAD 6156	Applied Organizational Theory & Behavior	3
SOW 5455	Writing and Managing Grants for Social Service Programs	3

Select two from the following:

PAD 6205	Public Financial Management	3
PAD 5435	Administration & the Role of Women	3
HSA 6425	Mental Health Administration & Planning	3
URS 5645	Strategic Planning in Public & Non-Profit Organizations	3
PAD 6434	Leadership and Decision Making	3
SOW 6387	Social Services Management Skills	3

Graduate Certificate in Maternal and Child Health

The graduate certificate program requires the completion of 15 graduate credits. This certificate program is open to both degree-seeking and non-degree seeking students.

Required Courses: (6 credits)

PHC 6530	Principles of Maternal and Child Health	3
PHC 6537	Case Studies in Maternal and Child Health Programs, Policies and Research	3

Choose at least three of these specialty courses: (9 credits)

HUN 6415	Pediatric Nutrition	3
PHC 6063C	Health Policy Database Applications	3
PHC 6531	Environmental Justice: Contextualizing Maternal and Child, Women, Youth and Family (WYF) Wellbeing	3
PHC 6750	Program Development and Evaluation in Health Promotion	3
PHC 6754C	Analytic Methods in Maternal and Child Health	3
PHC 6762	International Public Health	3
SOW 5240	Advanced Interventions in Child Maltreatment	3

Graduate Certificate in Pediatric Nutrition

The graduate certificate program requires the completion of 15 graduate credits. The graduate certificate in Pediatric Nutrition is a fully online graduate/professional certificate program that consists of 2 core pediatric nutrition courses plus at least three additional pediatric specialty courses over an academic year. The certificate is open to both degree seeking and non-degree seeking students.

Required Courses: (6 credits)

HUN 6415	Pediatric Nutrition	3
HUN 6416	Advanced Pediatric Nutrition	3

Choose at least three of these specialty courses: (9 credits)

HUN 6417	Nutrition of the High Risk Infant and Newborn in Intensive Care	3
DIE 6287	Dysfunctional Eating in Pediatrics	3
DIE 6286	Pediatric Obesity	3
DIE 6285	Pregnancy and Lactation	3

Graduate Certificate in Public Health Foundations

The graduate certificate program requires the completion of 18 graduate credits. The student must demonstrate proficiency in basic statistical and computer skills related to distribution and determinants of disease. If students are proficient in any one area covered by the required courses, alternative courses may be selected. Substitution of courses must be approved by the advisor. Students should consult with advisors since new courses are frequently added, and some courses have prerequisites and enrollment stipulations. This certificate program is open to non-degree-seeking students only.

Admission

Applicants must hold a bachelor's degree or equivalent from accredited college or university.

Required Courses: (18 Credits Total)

PHC 6000	Epidemiology I: Introduction to Public Health Epidemiology	3
PHC 6065	Public Health Statistics	3
PHC 6102	Introduction to Health Policy and Management	3
PHC 6315	Introduction to Environmental Health Sciences	3
PHC 6410	Health Behavior and Public Health	3
PHC 6500	Foundations of Public Health	3

Graduate Certificate in Social Work Practice with the Elderly

This graduate certificate provides specialized advanced clinical training for social work students working with elderly populations. This certificate program is open to degree-seeking students only.

Requirements: (15 credits)

Required

SOW 6236	Social Welfare Policy and Services II	3
SOW 6534	Field Practicum III (in an Elderly/Aging Setting)	6

Select 2 from the following:

SOW 5641	Understanding the Process of Aging	3
SOW 6646	Social Work Practice with the Elderly	3
SOW 5605	Medical Social Work	3
SOW 5805C	Counseling the Elderly	3
SOW 6359	Social Work Treatment with Families of the Elderly	3

Post-MSW Certificate in Clinical Practice

This certificate program is designed for MSW practitioners who specialized in macro/administrative or generalist practice and wish to increase their knowledge and skills in direct services/clinical practice. In most cases, MSW practitioners completing this certificate will have the requisite MSW course work for clinical licensure in the state of Florida. This certificate program is open to degree-seeking students only.

The post-MSW Certificate in Clinical Practice program of study is under revision. Students should anticipate changes in the 6000 level courses.

Admission Requirements

Applicants must satisfy all minimum requirements as specified by the University Graduate School for admission into Graduate Programs. In addition, the applicant must have earned a Master's of Social Work degree with a minimum cumulative GPA of 3.0.

Program of Study

SOW 6125	Human Behavior and Social Environment II – Psychopathology	3
SOW 6351	Clinical Intervention in Couple and Family Social Work Practice	3
SOW 6425	Clinical Assessment and Intervention Planning	3
SOW 6533	Field Practicum II	3
SOW 6534	Field Practicum III	6

For additional and updated information about degrees offered, entrance requirements, and services, please visit our website: **https://stempel.fiu.edu/academics/**

Course Descriptions

Definition of Prefixes

DIE-Dietetics; FOS-Food Science; FES-Fire and Emergency Services; FSS-Food Service Systems; GEY-Gerontology; HSC-Health Sciences; HUN-Human Nutrition; HSA- Health Services Administration; IHS-Interdisciplinary Health Sciences; PHC-Public Health; SOW-Social Work

DIE 5247 Trends in Therapeutic Nutrition (3). Evaluation and interpretation of current research in dietary care of metabolic diseases. Prerequisites: Diet therapy or approval of the instructor.

DIE 5936 Advanced Practice Seminar (1-3). Designed to provide didactic components in tandem with practice learning experiences in health care institutions. Covers material in clinical dietetics, management, and community nutrition. Utilizes a team approach and will draw on specialists from all areas of dietetics. Corequisites: DIE 6946, DIE 5947, DIE 5948 or permission of the instructor. (S)

DIE 5948 Advanced Practicum in Clinical Nutrition (1-6). Application of the principles, concepts, theories, and methodologies of administration and management to dietetic systems in healthcare and foodservice. Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (F)

DIE 6128 Dietetic Administration and Management (3). Application of management and organizational theory to dietetic systems in health and community institutions.

DIE 6259 Management of Nutrition Services (3). Analysis of interdisciplinary nutrition services delivery with emphasis on management models and theories regarding division of work, quality improvement and productivity, leadership, motivation and planning, organizing, staffing, directing, and controlling.

DIE 6285 Pregnancy and Lactation (3). This course is designed to apply the principles of practical and comprehensive nutrition information on counseling and support needs during and between Pregnancy and Lactation. Prerequisites: HUN 6415 and HUN 6416.

DIE 6286 Pediatric Obesity (3). This course is designed to apply the latest tools and practice recommendations needed to educate and counsel in the area of childhood obesity and prevention. Prerequisites: HUN 6415 and HUN 6416.

DIE 6287 Dysfunctional Eating in Pediatrics (3). This course is designed to apply the principles of psychology, physiology, and nutrition to nutrition care and counseling for infants, children and adolescents engaged in dysfunctional/abnormal eating. Prerequisites: HUN 6415 and HUN 6416.

DIE 6368 Advanced Techniques in Dietetic Practice (3). Techniques and approaches in changing nutritional behavior, establishing private practice, providing dietetic services in various size institutions, hospitals, nursing homes, and in the community. Prerequisites: DIE 4435, DIE 4435L or equivalent. Corequisite: DIE 6368L. (S, even years)

DIE 6368L Advanced Techniques Dietetic Practice Lab (1). Individual practice in conducting interviews, planning nutritional care, changing nutritional behavior, and providing dietetic consultation. Prerequisite: Permission of the instructor. Corequisite: DIE 6368. (S, even years)

DIE 6567 Research II (3). This course will further expand student knowledge and skills in research in Dietetics and Nutrition primarily through the development of a research proposal. Prerequisite: DIE 6568.

DIE 6568 Research I (3). Consideration of scientific methods and theoretical orientation as applied to research in dietetics. Special consideration given to various techniques of investigation, data collection, data organization, and interpretation. Prerequisites: STA 6166 or permission of the instructor.

DIE 6576 Project in Dietetics and Nutrition (1-6). Development and completion of a research project on a specific, important topic, question or need in the area of dietetics and nutrition. Prerequisites: DIE 6568; 12 hours graduate study, and permission of project advisor.

DIE 6578 Qualitative Research Methods in Dietetics (3). Application of qualitative research methods including field and case study approaches in interpreting and designing research studies. Introduction to interdisciplinary research. Prerequisite: DIE 6568.

DIE 6906 Readings in Dietetics and Nutrition (1-3). Dietetics and nutrition or in-depth advanced study of a specialty. Prerequisites: Permission of the instructor and advanced standing in graduate program. (F,S,SS)

DIE 6907 Individual Study in Dietetics (1-3). Intensive individual investigation of a phase of dietetics. Emphasis on recent findings in dietetics and allied disciplines. Prerequisite: Permission of the Instructor. (F,S,SS)

DIE 6915 Supervised Research (1-3). Continuation of thesis research under thesis advisor. Repeatable. Prerequisite: Completion of all other required course work. (F,S,SS)

DIE 6929 Specialized Short Courses in Dietetics and Nutrition (1-3). Intense courses on specialized topics in dietetics and nutrition for the advanced student or professional. Topic based on current nutrition concerns. Prerequisites: Advance graduate standing and permission of the instructor.

DIE 6935 Special Topics in Dietetics (3). In-depth study of historical, epidemiological, prevention, and treatment aspects of topics related to dietetics. Prerequisites: Competence in topic covered, admission to graduate program.

DIE 6937 Graduate Seminar in Dietetics and Nutrition (1). Presentations by researchers and doctoral students on studies, theories, applications; journal club presentations by students. Two semesters enrollment, M.S. students; three semesters Ph.D. students. (F,S)

DIE 6946 Advanced Supervised Dietetics Practice I (6). Advanced practical application of knowledge and skills in a supervised practice setting. Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (S)

DIE 6947 Advanced Supervised Dietetics Practice II (6). Continuation of advanced practical application of knowledge and skills in a supervised practice setting.

Prerequisite: Permission of the instructor. DI course does not count towards M.S. degree. (F)

DIE 6971 Thesis in Dietetics and Nutrition (1-6). Prerequisites: DIE 6568 or DIE 6578, 12 hours of graduate study and permission of Thesis advisor. (F,S,SS)

DIE 7566 Research Concept Development in Dietetics and Nutrition (3). Grant proposal writing for dietetic and nutrition research. Prerequisite: DIE 6568, STA 6166, and STA 6167.

DIE 7980 Ph.D. Dissertation (1-12). Research for doctoral dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

FES 6000 Command and Control in Disasters (3). To teach students how to manage disasters through systematic processes and methods.

FES 6805 Disaster Field Operations (3). Provides students with the knowledge and skills to engage in disaster work in field settings.

FES 6806 Disaster Response and Recovery (3). Designed to expose students to the principles and practices that promote effective disaster response and recovery operations.

FES 6826 Disaster Preparedness and Planning Methodologies (3). Provides a fundamental understanding about the importance of preparedness and planning, reasons for planning and identifies the people and organizations that may be involved in the planning process.

FES 6846 Comparative Disaster Management Systems (3). Introduction to the disaster management system applied in the U.S. and systems used to prepare and respond to international disasters.

FES 6847 Foundations in Humanitarian Assistance and Coordination (3). Focused on the role and responsibilities of the organizations engaged in humanitarian assistance.

FES 6848 Disaster Health Readiness (3). This course examines the efforts to provide humanitarian assistance from the perspective of the humanitarian agency and professional health worker in the field.

FES 6856 Introduction to Disaster Logistics (3). Focus on the process of planning, implementing and controlling the flow and storage of goods and materials from the point of origin to the point of consumption or use.

FES 6857 Introduction to Vulnerability Analysis and Hazard Mitigation (3). How to develop a community vulnerability analysis and implement mitigation and risk reduction initiatives to reduce future damage and build greater hazard resilient communities.

FES 6858 Crisis Communications (3). This course introduces students to the principles and practical tools of crisis communications during emergencies.

FOS 6236 Food Toxicology & Food Safety (3). Discusses food and water borne bacterial, parasitic, and viral infections and intoxication. Examines food additives, and contaminants. Describes toxic food constituents as well as naturally occurring toxicants. Prerequisites: Graduate standing and food science competency.

FSS 6535 Computer Assisted Food and Nutritional Services Management (3). Advanced course in computer analysis and utilization for detection and resolution of problems of food service and nutritional care. Prerequisites: Advanced graduate standing, DIE 6128 or equivalent, and computer competency.

GEY 5600 Physical Change and Healthy Aging (3). Primary health care and wellness with discussion and assessment of normal physiological alterations and their relationship to common health concerns and medical problems of older adults.

HSC 4751 Statistical Applications (3). The intent of this course is to familiarize students with the basic approaches to social research as applied in healthcare settings. Emphasis will be placed on techniques for organizing and presenting data for policy and management decision-making.

HSA 6505 Risk Management (3). This course provides students with the basics for managing risk in health care systems and prepares students to obtain a Certificate of Risk Management. Prerequisite: PHC 6102.

HSC 7935C Doctoral Seminar in Health Systems Research (2). This doctoral seminar includes presentations by researchers and doctoral students on studies, theories, and applications related to health systems research.

HUN 5123 Ethnic Influences on Nutrition and Food Habits (3). Systematic study of food habits of various cultural groups. Emphasis on methodology, analysis of data, relationship of food habits to nutritional standards, and corrective measures. Includes laboratory. Prerequisite: Competency in food preparation and nutrition. Recommended for non-majors.

HUN 5195 International Nutrition: Problems, Policies, and Planning (3). Advanced study of magnitude, causes and nature of under nutrition in developing countries; emphasis on programs, planning and policies directed toward alleviating hunger. Prerequisite: Permission of the instructor. Recommended for non-majors.

HUN 5245 Nutrition and Biochemistry (3). Advanced study of the relationship of nutrition and biochemistry with emphasis on digestion, absorption, metabolism of nutrients, and determination of norms. Prerequisites: Organic Chemistry and Physiology.

HUN 5611 Nutrition Education in the Community (3). In-depth study of nutrition education information and methods in the community including the nutrition education component of school food service and other congregate meal programs. Prerequisites: Recent courses in nutrition education or permission of the instructor.

HUN 5621 Food, Nutrition and Communication (3). Concepts and techniques for effective professional communication with individuals, groups and other professionals. Emphasis on communication via mass media. Prerequisites: Competency in food and nutrition knowledge.

HUN 6248 Sports Nutrition (3). The influence of exercise on specific nutrient demands and utilization of nutrients will be examined. Nutritional requirements and interrelationships between nutrition and exercise in the prevention and management of common diseases such as

obesity, hypertension, diabetes and cardiovascular disease will also be discussed. Prerequisites: Human Nutrition and Intermediate Physiology. (S, odd years)

HUN 6254 Drug and Nutrient Interaction (3). The interaction of drug and nutrient metabolism in relation to optimum nutrition. Prerequisites: Advanced Nutrition, Biochemistry, Physiology.

HUN 6255 Nutrition in Wellness Program (3). Examination of required factors for successful development, implementation and evaluation of wellness programs and investigation of interrelationships between nutrition/physical activity as means of chronic disease risk reduction. Prerequisites: Advanced Nutrition and Nutrition Education.

HUN 6257 Physio/Psychology of Food Intake (3). Examination of food intake regulation with applications in both research and practice. Prerequisites: Competence in nutrition and physiology.

HUN 6266 Nutritional Assessment (3). In-depth study of the methodology and application of nutritional assessment. Prerequisites: HUN 4241 or equivalent, DIE 3244 and Lab or equivalent, and DIE 4246 and Lab or equivalent.

HUN 6285 Nutrition and Metabolism I (3). Advanced study of the human nutrition of carbohydrates, lipid, fiber, thiamin riboflavin, panothenic acid, biotin and choline. Prerequisites: Advanced Nutrition, Biochemistry, Physiology.

HUN 6286 Nutrition and Metabolism II (3). Advanced study of the human nutrition of protein, energy, folate, vitamin B6, vitamin B12 and water. Prerequisites: Advanced Nutrition, Biochemistry, Physiology.

HUN 6287 Nutrition and Metabolism III (3). Advanced study of the human nutrition of vitamins C, A, D, E, and K, and essential macro and trace minerals. Prerequisites: Advanced Nutrition, Biochemistry, Physiology.

HUN 6295 Contemporary Issues in Food and Nutrition (3). Critical evaluation of current controversies in nutrition and dietetics research. Prerequisites: Advanced Nutrition, Biochemistry, Physiology, Research Methods.

HUN 6307 Carbohydrates and Lipids (3). The biological, physiological and metabolic functions of carbohydrate and lipids as they relate to human nutrition. Prerequisites: Biochemistry, Advanced Nutrition and Physiology.

HUN 6327 Proteins (3). Protein metabolism, physiology and nutrition. Prerequisites: Biochemistry, Advanced Nutrition, and Physiology.

HUN 6335 Functions of Vitamins (3). Integration of chemical, biological and physiological functions of vitamins as related to human nutrition. Prerequisites: Advanced Nutrition, Biochemistry, Physiology. (S, even years)

HUN 6355 Minerals in Human Nutrition (3). The physiological and metabolic functions of selected macro and trace minerals as they relate to nutritional status in humans. Prerequisites: Advanced Nutrition, Biochemistry, Physiology. (S, odd years)

HUN 6415 Pediatric Nutrition (3). This course is designed to apply the principles of physiology, biochemistry and nutrition to Medical Nutrition Therapy for healthy infants, children and adolescents.

HUN 6416 Advanced Pediatric Nutrition (3). This course is designed to apply the principles of physiology, biochemistry and nutrition to Medical Nutrition Therapy for medically compromised infants, children and adolescents. Prerequisite: HUN 6415.

HUN 6417 Nutrition of the High Risk Infant and Newborn in Intensive Care (3). This course is designed to apply the principles of physiology, biochemistry and nutrition to nutrition care and planning for high risk infants and newborns in intensive care.

HUN 6435 Nutrition and Aging (3). Changes associated with aging and the impact of nutrition on these changes. Prerequisite: Permission of the instructor. (S, odd years)

HUN 6522 Public Health Nutrition (3). Development and assessment of nutrition programs for the general population throughout the life cycle. Prerequisites: DIE 3310 or equivalent.

HUN 7408 Nutrition Across the Lifespan (3). The course will explore social, economic, physiologic, and lifestyle factors that influence nutrition status across the stages of growth and development, maturation, and aging. Prerequisites: HUN 4403, HUN 4241, DIE 5247.

HUN 7523 Community Nutrition (3). Evaluate models and methodologies to identify public health nutrition issues; analyze current and historical research/nutrition policy; recognize necessary infrastructure to support policy. Prerequisites: HUN 4410, HUN 6522, PHC 6500.

HUN 7524 Nutrition Science and Implications for Community Health (3). Critical examination and synthesis of current human nutrition science topics with emphasis on implications to human health, nutrition, public health policy, and research. Prerequisites: Nutritional Biochemistry and Pathophysiology.

IHS 6502 Principles of Clinical Trials (3). Advanced study of clinical trials including research design, ethics, monitoring and analysis. Prerequisites: PHC 6706 or equivalent.

IHS 6937 Interdisciplinary Graduate Seminar (1-3). Multidisciplinary seminar including foundations of reasoning and investigative methods focusing on a multi-dimensional problem related to social, legal, policy, economic, and health issues. Prerequisite: Research Methods.

IHS 6948 FIU Behavioral Health Workforce Education and Training Fellowship (0-3). Inter-professional and integrated care training of behavioral health clinicians to competently serve the underserved, uninsured, economically disadvantaged and those with chronic health conditions. Prerequisite: Acceptance in BHWET Fellowship Corequisite: For Field Practicum II semester: SOW 6533, SOW 6425 For Field Practicum III semester: SOW 6534 and SOW 6351

PHC 5009 AIDS: Contemporary Issues (3). This course introduces the contemporary social and public health issues associated with the AIDS epidemic and the policies and programs designed to prevent HIV transmission.

PHC 5108 Foundations of Public Health Practice for Social Workers (1). This course will serve as an

introduction to applied public health (PH) for MSW level social workers, provide an overview of public health disciplines and provide exposure to its field applications.

PHC 5158C A History of United States Health Policy (3). Places contemporary health policy controversies into historical perspective by highlighting some of the major health-related issues that have drawn federal intervention during the past two centuries. Prerequisite: PHC 6102.

PHC 5409 Public Health Behavior Change Theory and Practice (3). A course for health promotion practitioners who lack formal training in behavior change foundations and strategies. The course emphasizes applications to practical development of health promotion interventions. (S)

PHC 5415 Public Health in Minority/Urban Population (3). Covers the scope of Public Health Issues related to minority and urban populations with an emphasis on health care status, utilization of the health care system and expenditures. (F)

PHC 5581 Public Health Aspects of Complementary and Alternative Medicine (3). Introduction of theory, practice and scientific evidence for complementary and alternative medicine. Emphasis on regulatory issues and quality assurance; politics of use and social, cultural and historical factors.

PHC 5675 The Cuban Maternal and Child Health Paradox: A View from Santiago de Cuba (3). This course consists of visits and encounters with workers in the front line of MCH in Cuba who contribute to the Cuban "paradox" (low maternal and infant mortality in a low-resource setting).

PHC 6000 Epidemiology I: Introduction to Public Health Epidemiology (3). This course is an introduction to the study of the distribution, determinants, and measurement of health and disease in populations, including design methods and their application. (F,S)

PHC 6001 Environmental and Occupational Epidemiology (3). This course covers outbreaks; cluster analysis; cross-sectional, case-control, cohort, ecological and time series designs; surveillance programs; environmental cancer; reproductive hazards, biological monitoring and biomarkers. Prerequisites: PHC 6315 and PHC 6000.

PHC 6002 Infectious Disease Epidemiology (3). This course covers principles specific to infectious disease epidemiology, explores the application of epidemiologic methods to infectious disease problems, and examines surveillance, and outbreak investigation. Prerequisites: PHC 6000 and PHC 6065.

PHC 6003 Chronic Disease Epidemiology (3). A review of selected epidemiologic research methodology as it applies to infectious and chronic diseases and its application towards understanding selected major infectious and chronic diseases from a population based perspective. Prerequisite: PHC 6000.

PHC 6004 Injury Epidemiology and Prevention (3). Analyzes the impact and extent of injuries as a public health problem. Issues of prevention, sources of data, environment, social and occupational aspects are included in an epidemiological approach. Prerequisite: PHC 6000. (SS)

PHC 6007 Cancer Epidemiology (3). This course will provide an understanding of the epidemiological patterns, etiology and risk factors of cancer from a community and population perspective. Prerequisite: PHC 6000.

PHC 6008 Cardiovascular Disease Epidemiology (3). This course will increase understanding of epidemiological patterns, etiology and risk factors of selected major cardiovascular disease from a population based perspective. Prerequisites: PHC 6000, PHC 6065.

PHC 6009 AIDS Epidemiology and Control (3). Reviews the epidemiology, virology, immunology, and clinical aspects of HIV, and also examines its impact upon risk groups and the responses of society to the epidemic. Prerequisites: PHC 6000 and PHC 6065 or permission of the instructor. (S)

PHC 6012 Current Research in Epidemiology (3). This course will examine current areas of research in epidemiology and bring students into contact with researchers in various fields. Prerequisites: PHC 6000, PHC 6065. (S)

PHC 6013 Epidemiology II: Observational Design (3). The fundamental concepts, principles, and methods of observational epidemiologic research at an intermediate level. (S)

PHC 6014 Behavioral Epidemiology (3). This course will examine human behaviors as determinants of health and disease, methods of exploring these relationships, and ways of altering risk behaviors. Prerequisite: PHC 6000.

PHC 6016 Social Epidemiology (3). Explores the epidemiological aspects of health and medical care of the poor and disadvantaged population groups. Emphasis on the relationship of organization and delivery of health care, including health promotion, prevention, and related topics. Prerequisite: PHC 6000 and PHC 6065 or permission of the instructor. (F)

PHC 6020 Clinical Epidemiology (3). A course on methods in clinical epidemiologic studies, including study design, sample size, clinical measurements, clinimetric indices, casual inference, analytic issues and clinical decision making. Prerequisites: PHC 6065, PHC 6000 or permission of the instructor.

PHC 6033 Mechanism of Complex Disease in Public Health (3). This course will review genetic and non-genetic epidemiologic associations with complex diseases together with the underlying biological basis for them to develop strategies for prevention. Prerequisites: PHC 6000 and undergraduate course in (human) biology.

PHC 6034 Intermediate Epidemiology (3). This course is designed for Public Health students requiring a more thorough knowledge of the concepts and methods used in epidemiological research. Prerequisite: PHC 6000.

PHC 6039 Healthcare Epidemiology and Infection Control (3). The course introduces principles of healthcare epidemiology & infection prevention, epidemiology and prevention of healthcare associated infections, and interventions to control such infections. Prerequisite: PHC 6002

PHC 6052 Biostatistics I (3). An introduction to basic biostatistical techniques for MPH students majoring in Biostatistics, but also open to those seeking a thorough understanding of and ability to use the essential biostatistical procedures. Prerequisites: Familiarity with basic algebra and basic calculus is important.

PHC 6055 Data Management and Epidemiologic Analysis Using SAS/SPSS (3). Covers practical issues related to the management, security, and analysis of epidemiologic data by creating, managing, and analyzing an epidemiologic database using statistical software packages. Prerequisite: PHC 6052, or permission of the instructor.

PHC 6056 Longitudinal Health Data Analysis (3). Applied longitudinal health data analysis; methods to compare different health treatments and behavioral interventions. Focus will be on models for single and multiple correlated public health outcomes. Prerequisites: PHC 6052, PHC 6091 or permission of the instructor.

PHC 6059 Survival Data Analysis (3). Concepts of lifetime events and survival data in Public Health; modern methods used to analyze time-to-event data; non-parametric and parametric models. Prerequisite: PHC 6052, PHC 6091, or permission of the instructor. Corequisite: PHC 6091.

PHC 6060 Principles and Approaches to Biostatistical Consulting (3). The course specifically addresses the process of providing biostatistical consulting support for public health, medical and clinical research. Prerequisites: PHC 6052, PHC 6091, PHC 6093.

PHC 6062 Systematic Reviews and Meta-Analysis (3). This course is designed to train students in the conduct of a systematic literature review and developing the skills critical for evidence-based clinical and public health practice.

PHC 6063C Health Policy Database Applications I (3). In this course students identify and manage secondary data to obtain quantitative evidence to support public health/health system decision making. Prerequisites: PHC 6000, PHC 6065

PHC 6064 Applied Statistical Methods for Discrete Data (3). This course will offer students a focused introduction to statistical models for the analysis of binary medical and public health data. The course will provide an introduction to the application of statistical models for PH outcomes in epidemiology, dietetics and nursing. Prerequisite: PHC 6052 or permission of the instructor.

PHC 6065 Public Health Statistics (3). Covers the basic concepts and tools for non-biostatisticians, including descriptive statistics, confidence intervals, hypothesis testing, the basic statistical tests and data presentation. (F,S)

PHC 6067 Probabilistic Graphical Models (3). Concepts and implementation of Probabilistic Graphical Models, comparative study the models, and their suitability for various datasets. Prerequisites: PHC 6052, PHC 6091, or permission of the instructor.

PHC 6080 SAS Computing for the Health Sciences (3). Course covers essential computer-based techniques for the SAS system for data management and statistical analysis relevant to public health. Topics include: programming techniques, macro programming, and SQL with SAS. Prerequisites: PHC 6052, PHC 6091 or permission of the instructor.

PHC 6084 Introduction to Bayesian Inference (3). This course will introduce students to probabilistic statistical inference using the Bayesian approach, as well as equip students to perform basic computing within the Bayesian statistical framework. Prerequisite: PHC 6052 and PHC 6091.

PHC 6086 Cluster Analysis for Public Health (3). This course introduces data matrix, types of data, measures of similarity, hierarchical and non-hierarchical clustering methods, density based methods, clustering trees, and number of clusters. Prerequisites: PHC 6065 or an equivalent, basic calculus and linear algebra.

PHC 6087C Health Policy Database Applications II (3). Students will analyze secondary data and communicate results to inform evidence-based public health/health system decision making. Prerequisite: PHC 6102, PHC 6063C

PHC 6090 Advanced Public Health Statistics (3). Public Health Statistics continuation. Covers the concepts and interpretation of randomized blocks and factorial ANOVA, multiple, logistic and proportional hazards regression techniques and survival analysis. Prerequisite: PHC 6065.

PHC 6091 Biostatistics 2 (3). Continuation of Biostatistics I. Covers advanced methods for ANOVA, different regression and correlation techniques and survival analyses. Prerequisite: PHC 6052.

PHC 6093 Biostatistical Data Management Concepts and Procedures (3). Covers procedures and tools for data management, including data collection, transfer, handling, quality and security issues for research projects for public health, medicine and related fields.

PHC 6099 R Computing for Health Sciences (3). This course will introduce R statistical software computing and analytics associated with topics discussed in Biostatistics I and II. Prerequisite: PHC 6052 Biostatistics I or equivalent statistics course with permission of instructor. Corequisite: PHC 6091 Biostatistics II or permission of instructor.

PHC 6102 Introduction to Public Health Policy and Management (3). This core public health course introduces students to comparative health systems and policies in the United States and globally with key concepts and methods in policy assessment and evaluation.

PHC 6103 Introduction to Applied Public Health (3). This course will serve as an introduction to applied public health and provide an overview of core public health disciplines with hands-on exposure to its application in the field.

PHC 6104C Public Health Management and Leadership (3). This course integrates theory with practice by examining management, leadership and organizational behavior in public health organizations.

PHC 6110 Health Risk Appraisal (3). Health promotion technique designed for identifying personal health risks and the use of these methodologies for inducing behavioral change. Evaluation of the effectiveness of

various health appraisal instruments. Prerequisite: Biostatistics and Epidemiology.

PHC 6113 Community Health Promotion Planning and Research (3). This course allows students to develop and apply the research principles necessary for needs assessments, planning, implementation, and evaluation of health promotion programs for diverse populations. Prerequisite: PHC 6410

PHC 6118 Population Health Management and Improvement I (3). This course is an introduction to population health management, an emerging model in healthcare delivery that involves moving from individual-based episodic healthcare to a population health model. Prerequisite: PHC 6102.

PHC 6146 Health Promotion Program Planning and Intervention Design (3). The principles of and practices of health promotion program planning and design, development, testing of behavioral interventions are described and explained in this course. Prerequisites: PHC 6410, PHC 6706, PHC 6065.

PHC 6147C Continuous Quality Improvement in Healthcare Organizations (3). This course covers continuous quality improvement (CQI) strategies in healthcare and health systems, including foundational concepts in patient safety and quality, leadership, teams, and systems. Prerequisite: PHC 6102

PHC 6148 Strategic Planning for Healthcare Organizations (3). This course introduces students to strategic planning for healthcare organizations encouraging modern business approaches, including the planning process and using data to identify growth opportunities. Prerequisite: PHC 6102.

PHC 6150 Public Health Policy Analysis and Formulation (3). Strategies for formulating public health policy; political processes; resource allocation, organization, and participation. Examination of current policy issues and efforts to effect change. (SS)

PHC 6154C Evidence Synthesis Applied to Clinical Settings and Health Policy-Making (3). This decision-making processes in health-policy and clinical settings and describes methods for communicating evidence synthesis to its end-users. Prerequisites: PHC 6000, PHC 6065.

PHC 6155C Health Policy Analysis (3). Students will analyze public health and health care policies from multiple perspectives, communicate health policy issues via written reports, and develop the capacity to collaborate with peers. Prerequisite: PHC 6065.

PHC 6160 Public Health Budgeting and Financial Management (3). The course covers the analysis of healthcare financial statements, cost allocation, and budgeting. It introduces the basic concepts of accounting and reimbursement methods of healthcare organizations.

PHC 6183 Disaster Risk and Emergency Management in Public Health I (3). This course meets the demand for new management strategies and skills that will permit an orderly, structured, effective, and flexible approach to health emergency preparedness and response.

PHC 6185 Disaster Risk and Emergency Management in Public Health II (3). This course meets the demand for new management strategies and skills that will permit an orderly, structured, effective, and flexible approach to health preparedness and response. Prerequisite: PHC 6183.

PHC 6190 Biostatistical Methods for Survey Research (3). Discusses the biostatistical issues for sample surveys in the health sciences. Includes the use of national/state health databases. Prerequisites: PHC 6052, PHC 6091, or permission of the instructor.

PHC 6251 Disaster and Emergency Epidemiology (3). Disaster and Emergency Epidemiology studies the public health response to natural disasters, environmental emergencies and perpetuated acts of terrorism.

PHC 6256C Population Health Management and Improvement II (3). This is second in a two-course sequence. This course moves students from the conceptualization of population health management issues and initiatives to real-world implementation and evaluation. Prerequisites: PHC 6102 and PHC 6118.

PHC 6307 Exposure Assessment in Environmental and Occupational Epidemiology (3). Surveys available mechanisms utilized by public health and environmental agencies to monitor levels of pollution, environmental quality, and change in environmental conditions which impact human health. Prerequisites: PHC 6000, PHC 6065, PHC 6315. (SS)

PHC 6310 Environmental Toxicology (3). Theory and practice of occupational and environmental toxicology; health effects of toxins in humans; principles of toxicology; toxicokinetics; and health effects of toxins on organ systems. Prerequisite: PHC 6315.

PHC 6311 Environmental Health Risk Assessment (3). This course explores environmental health care management problems associated with risk to the population from exposure to particular agents and conditions. Emphasizes practical problems in risk estimation through the case method approach. Prerequisite: PHC 6315. (S)

PHC 6312C Health Impacts of Air, Water and Land Pollution (3). The course covers the impact of air, water and land pollution on human health/well-being and on the whole environment plus pollution and control measures of each kind of pollution. Prerequisite: PHC 6315.

PHC 6315 Introduction to Environmental Health Sciences (3). An overview of public health philosophy and government organization in the provision of official agency, environmental, and preventive medicine services, with particular emphasis on the regulatory and surveillance responsibilities authorized in the public sector. (F,S)

PHC 6316 Environmental Health Management (3). The course provides the student with skills in management of the programs dealing with food, water, waste, radiation, workplace, air, energy, human establishments, and humanitarian challenges. Prerequisites: PHC 6315 or permission of the instructor.

PHC 6326 Emerging Environmental Health Issues (Local/County, State, U.S., and Global) (3). This course is designed to provide students in environmental health with a step-by-step guide to the practical application of knowledge already acquired in environmental and occupational health sciences.

PHC 6328 Molecular and Cellular Toxicology (4). The course is designed to provide a mechanistic understanding of how environment agents result in toxicity at the cellular and molecular level through interactions with receptors, enzymes, and DNA.

PHC 6329 Biomarkers (3). This course will provide an understanding of the principles, identification, validation and application of molecular biomarkers, and their use health/disease risk assessment in human populations.

PHC 6355 Environmental Health and Safety (3). The course covers recognition of environmental hazards and injuries and the principles of environmental safety including regulations, standards and models of accident causation at work places. Prerequisite: PHC 6315.

PHC 6356 Fundamentals of Industrial Hygiene (3). The course covers recognition, evaluation, and control of chemical biological and physical agents in the workplace; application to exposure, control measures, and standard setting procedures. Prerequisite: PHC 6315.

PHC 6374 Environmental Disasters and Human Health (3). This course will provide an overview of environmental disasters and the measures designed to reduce the impact of disasters on Environmental Health. It aims to strengthen the ability of people to withstand the disruption of their accustomed infrastructure and systems for environmental health.

PHC 6380 Introduction to Neurotoxicology (3). This master-level course will provide students a knowledge of how environmental neurotoxicants may impact the development and progression of brain diseases such as Alzheimer's and Parkinson's.

PHC 6382C Neuropharmacology (3). This course introduces fundamental concepts in neuropharmacology, such as pain relief and mood modulation, and describe how environmental factors affect drug actions in the nervous system.

PHC 6383C Neurobehavioral Techniques (3). A master's level course designed to introduce students to neurobehavioral methods used in the research lab and clinic to assess the effects of environmental exposures. Prerequisite: PHC 6380, PHC 6382C

PHC 6410 Health Behavior and Public Health (3). The overall goal of this course is to introduce the student to the learning and behavioral science theories that provide the framework for the practice of health promotion and public health. Prerequisites: Public Health major or permission of the instructor. (F,S)

PHC 6412 Health Promotion in Culturally Diverse Communities (3). This course will examine both analytical and practical approaches to cultural competency, cultural humility, and addressing the public health needs of culturally diverse communities.

PHC 6422 Regulatory Aspects of Environmental Health Sciences (3). The application of law as it relates to the environment and human health. Legal process and rule-making; cost-benefit analysis; judicial review; evidentiary problems; and other elements of environmental law are emphasized. Prerequisites: PHC 6000, PHC 6065 and PHC 6315. (S)

PHC 6430C Public Health Economics (3). This course focuses on the application of basic microeconomics tools to the analysis of consumers', producers', and insurers' behavior in the market for health care. Prerequisite: PHC 6065 or permission of the instructor.

PHC 6436 Advanced Issues in Economic Evaluation of Health Care Programs (3). This course presents applications of economic evaluation issues including cost analysis, health outcomes, and health state utilities. Prerequisites: PHC 6065, PHC 6430.

PHC 6441 Epidemiology of Health Disparity (3). This course is designed to provide an overview and understanding of Health Disparity, its indicators, measuring methods and models as well as theoretical underpinning for explanation of Health Disparity. Prerequisites: PHC 6000 and PHC 6065.

PHC 6442 Global Environmental Public Health (3). This graduate level course addresses global public health issues by integrating the complex molecular, biological, environmental, technological and social system interactions causing diseases. Prerequisites: PHC 6315 or PHC 6312 or by instructor's permission and IDS 3189 or IDS 3183.

PHC 6443 Ethical Issues in Public Health (3). This course provides an overview of ethical principles, perspectives, and decision-making in public health. (F,S)

PHC 6465C Public Health and Medicine in History (3). This course introduces students to central themes and questions pertaining to the history of medicine, public health, and health care in the United States.

PHC 6500 Foundations of Public Health Practice (3). Philosophy, nature, and scope of public health; organization and administration; principles of disease prevention and health promotion; current issues and trends; socioeconomic and political forces. Prerequisites: Public Health major or permission of the instructor. (F,S,SS)

PHC 6504 Introduction to Public Health Education and Wellness (3). Primarily intended to introduce graduate students to concepts and principles underlying the use of Public Health and Behavioral Strategies to positively influence behavioral patterns. Prerequisites: Public Health major or permission of the instructor. (S)

PHC 6510 Advanced Infectious and Tropical Disease Epidemiology (3). Course covers advanced principles specific to tropical infectious disease biology, immunology, pathogenesis, epidemiology, and investigation strategies relevant to S Florida, Caribbean, Latin America. Prerequisite: PHC 6000 and PHC 6002

PHC 6520 Public Health Aspects of Foodborne Diseases (3). Examines the scope of the foodborne disease problem; factors that contribute to outbreak of foodborne disease; strategies for the prevention and control of these diseases are explored. Prerequisites: PHC 6000, PHC 6065, and PHC 6315. (SS)

PHC 6530 Principles of Maternal and Child Health (3). Covers the scope of the field of maternal and child health with emphasis on the needs of infants, children, youth, women and families in the reproductive cycle and programs designed to meet these needs. Prerequisites: Public Health major or permission of the instructor. (S)

PHC 6531 Environmental Justice: Contextualizing Maternal and Child, Women, Youth, and Family (WYF) Wellbeing (3). Explores disparities in exposures to environmental agents and conditions and related adverse events and outcomes relevant to maternal, child, reproductive, and family health and approaches to respond.

PHC 6536 Health Demography (3). The study of basic population structure, composition, trends and relationship to health status. Implications of demographic trends, policies for public health; population growth, immigration, infant mortality. Prerequisites: PHC 6065 or permission of the instructor. (SS)

PHC 6537 Case Studies in Maternal and Child Health Programs, Policies and Research (3). Seminar course focused on intended and unintended impact of programs and policies on the health of women and children from a life course perspective, identifying research gaps and needs. Prerequisite: PHC 6530 or permission of the instructor. Corequisite: If student has not taken PHC 6530, should be taken concurrently.

PHC 6538 Gene & Environment Interaction (3). Genetic issues and topics that impact on Public Health will be covered such as HW gene frequencies and HUGO. A public health perspective with a field of study.

PHC 6580 Contemporary Issues in Health Promotion (3). Current problems and findings in health promotion content areas such as smoking, alcohol, and drug misuse, family health, safety, physical fitness, communicable and chronic diseases will be discussed. Prerequisites: PHC 6000 and PHC 6065. (SS)

PHC 6589 Health Promotion in Institutional Settings (3). This course will investigate the role, methods and techniques used to promote health in diverse settings such as clinic and community agencies, schools, universities and workplaces. (SS)

PHC 6591 Reproductive Health Epidemiology (3). This course focuses on current research, methodological issues, and discusses case studies in the epidemiology of reproductive and perinatal health from domestic and international setting. Prerequisites: PHC 6000 and PHC 6065.

PHC 6595 Genetic Epidemiology (3). This course provides a background to genetic epidemiologic methods, and focuses on design, execution, analysis and interpretation of genetic association studies. Basic genetics will also be covered. Prerequisites: PHC 6000 or approval by instructor.

PHC 6600 Health Promotion Communication Theory and Design (3). Theory, design, and implementation of health education communication utilized in reaching the public. Emphasis on the critical analysis of the communication processes; group techniques and media methods; and the consultation process. Prerequisites: Health Promotion Concentration or by permission of the instructor. (F)

PHC 6601 Emerging Issues in Public Health (3). Investigation of emerging public health issues, such as public health informatics, genomics, global health, policy and law, and public health ethics, within the framework of ecological model.

PHC 6602 Theoretical Foundations of Health Promotion (3). The course will emphasize the use of psychosocial theories in understanding and addressing public health problems. Prerequisites: PHC 6410, PHC 6065.

PHC 6604 Current Issues in Health Policy (3). This course is an intervention of current public health policy issues, such as chronic disease, health disparities, and healthcare reform within a policy analysis framework.

PHC 6700 Methods and Analysis in Epidemiological Research (3). This course provides understanding of principles, methods and analytical techniques applied in epidemiologic research using multimedia and interpersonal approaches of instructions to motivate and explain with real life examples. Prerequisite: PHC 6000.

PHC 6701 Advanced R Computing (3). This course will introduce writing statistical computing and data science code in R covering data structures, graphics, reports, functions and scripts for analysis pipelines. Prerequisite: PHC 6099 or equivalent computational statistics course (with instructor permission).

PHC 6703 Epidemiology Methods: Experimental Design (3). Introduction to clinical and community trial design and conduct, randomization, blinding, recruitment, data collection, assessment of adverse effects, compliance with therapy, and analyses. Prerequisites: PHC 6013, PHC 6xxx – Public Health Statistics II.

PHC 6706 Research Methods in Public Health (3). Study of scientific research, inductive and deductive thinking, research methods and design as applied to the field of Public Health. Prerequisite: Undergraduate statistics course.

PHC 6709 Quantitative Research Analysis in Health Urban Affairs I (3). Application of quantitative techniques used for research analysis in health and urban affairs research and practice settings. Prerequisites: STA 3145 or STA 6166 or equivalent.

PHC 6715 Survey Research in Public Health (3). Health survey design, implementation and analysis, and interpretation of data. Emphasis on practical aspects of conducting health surveys. Study of existing health surveys. Prerequisites: PHC 6000 and PHC 6065. (F,S)

PHC 6730C Neurotoxicology Research Methods (3). A master's level course designed to introduce students with fundamental approaches in neurotoxicology and interpreting research results in environmental health sciences. Prerequisite: PHC 6380.

PHC 6750 Program Development and Evaluation in Health Promotion (3). Focuses on the development, implementation, and evaluation of health promotion programs to improve health outcomes. Prerequisites: PHC 6000 and PHC 6065. (SS)

PHC 6751 Community Organization for Health Promotion (3). Emphasis is on the diagnosis of community health problems and various organizational strategies utilized for effective solution. Review and analysis of community organization process; resources; and the role of health promotion specialist. Prerequisites: Health Promotion Concentration or permission of the instructor. (F)

PHC 6754C Analytic Methods in Maternal and Child Health (3). Enhances skills in independent data analysis using free software (Epi Info, OpenEpi) and publicly available data in local and state health agency professionals and students preparing for MCH practice.

PHC 6762 International Public Health (3). This course describes international differences in the distribution and determinants of disease and health, and examines interventions aimed at improving health status. (F)

PHC 6763 Global Perspectives of Environmental Health in Caribbean and Latin America (3). The course describes the relationship between human health and the environment in developing countries of the Caribbean and Latin America. Prerequisite: PHC 6315.

PHC 6900 Environmental Public Health Genomics and Molecular Toxicology Journal Club (1). Students will learn to read, evaluate, present and discuss papers. Papers will be presented on a diverse set of topics related to genetics of environmental human diseases and molecular toxicology.

PHC 6901 Readings in Public Health (1-3). Individual advanced study in a comprehensive overview of Public Health or in-depth advanced study of a specialty. Prerequisites: Permission of instructor and Advanced standing in the graduate program.

PHC 6907 Independent Study: Public Health (1-3). Allows student investigations of special topics and issues utilizing literature searches, analysis, or active performance in public health settings under the direction of faculty supervision. Prerequisite: Permission of the faculty advisor.

PHC 6914L Current Topics in Environmental Health Sciences Research Lab (1-9). To conduct laboratory based analytical research and collect data.

PHC 6920 Special Topics in Environmental Health Sciences (3). This course is designed to impart in depth knowledge of emerging issues in the area of environmental and occupational health.

PHC 6921 Environmental Health Sciences Seminar (1). This is an oral communication course intended to provide graduate students the opportunity to practice speaking in front of an audience and to present their research data or topic of interest.

PHC 6930C Integrative Seminar in Public Health (3). Integrative Seminar serves as the culminating experience for MPH degree and the final assessment of the public health competencies required of MPH graduates. Prerequisites: PHC 6945 or instructor consent, if exempt from PHC 6945.

PHC 6931 Special Topics in Biostatistics (1-3). This is a series of 1-3 credit hour offerings, on topics of considerable interest to advanced masters and doctoral students in public health, not limited to statistical methods. Prerequisites: PHC 6052, PHC 6091, or permission of the instructor.

PHC 6934 Scientific Writing and Oral Presentations in Epidemiology and Biostatistics (3). Covers the planning and execution of written and oral presentations in epidemiology/biostatistics by critically evaluating published articles and preparing a manuscript and an oral presentation. Prerequisites: PHC 6000 and PHC 6065.

PHC 6939 Special Topics in Cardiovascular Disease Epidemiology (3). The purpose of this course is designed to impart in-depth knowledge of a particular cardiovascular disease or risk factor that is affecting populations nationally and or internationally. Prerequisites: PHC 6000, PHC 6065, or permission of the instructor.

PHC 6945 Practicum in Public Health (3). This course is a preceptor-guided experience in public health organization. It provides an opportunity for graduate students in Public Health to bridge the gap between theory and practice. Prerequisite: Permission of the faculty advisor. (F,S,SS)

PHC 6971C Master's Thesis in Public Health (1-6). The Master's Thesis is a scholarly manuscript resulting from a long period of research and related preparation, undertaken to fulfill partially the requirements of an advanced degree.

PHC 6977 Master's Research Project (3). Course provides the student with an opportunity to pursue research in an area pertaining to Public Health.

PHC 7011 Advanced Current Research in Epidemiology (3). The purpose of this course is to examine and critically review current areas of research in Epidemiology with focus on observation studies. Prerequisites: PHC 6000, PHC 6013, PHC 6065 or equivalent.

PHC 7015 Advanced Research Methods-Experimental Design (3). A course on methods in experimental epidemiologic studies, including randomization, blinding, assessment of adverse effects, compliance, and intent-to-treat, survival and subgroup analyses. Prerequisites: PHC 6000, PHC 6065, PHC 6013.

PHC 7017 Advanced Epidemiology for Health Disparity (3). Provides advanced understanding of health disparity - disparity indicators, complex measurement methods and applications, theoretical frameworks, and analysis and evaluation of programs/policy. Prerequisites: PHC 6055 and PHC 6065 or equivalent.

PHC 7018C Advanced Environmental Health (3). The objective of this course is to teach students advanced toxicology principles such as toxicokinetics, polymorphisms of metabolizing enzymes, toxicogenomics, and biomarkers of toxic exposure. Prerequisite: PHC 6310.

PHC 7050 Advanced Biostatistics I (3). Introduction to mathematical expectation of random variables, probability distributions, moment generating functions, sampling, covariance and correlation, point estimation of distribution parameters. Admission to the PhD program in Biostatistics, or satisfactory completion of the following undergraduate courses or their equivalents: MAC 2311-2313, MAS 3105, STA 3111-3112, STA 3163-3164, MAA 3200, STA 4321-4322, MAA 4211-4212.

PHC 7051 Advanced Biostatistics II (3). Familiarize students with the likelihood principle, point estimators, interval estimators, hypothesis testing, Bayesian point and interval estimators, and asymptotic evaluations. Prerequisite: PHC7050 or equivalent (permission from instructor).

PHC 7054 Advanced Biostatistics III (3). Generalized linear model and estimating equation approaches for non-linear public health data. Held in the Public Health Informatics Laboratory utilizing various statistical software. Prerequisites: PHC 7050, PHC 7051, or permission of the instructor.

PHC 7064 Applied Structural Equation Modeling (3). Will introduce the application of SEM to public health data including model specification, path analysis, testing fit, confirmatory factor analysis, longitudinal data analysis, and the interpretation. Prerequisite: PHC 6052 and PHC 6091 or equivalent courses (with instructor permission)

PHC 7083 Advanced Bayesian Inference (3). This course will cover advanced topics related to Bayesian methods such as prior assumptions, hierarchical modeling and computational MCMC methods with various sampling algorithms. Prerequisite: PHC 6084 or equivalent

PHC 7095C Advanced Methods for Health Systems Research (4). This course focuses on quantitative research methods using secondary data and introduces students to a wide spectrum of national and global health policy databases. Prerequisite: PHC 6091.

PHC 7162 Grant Writing in Public Health (3). Course covers proposal writing political/social aspects of "grantmanship" identifying sources of grant funding doing research to support the application, and tailoring the proposal to specific audiences. Prerequisites: PHC 6091, PHC 7705, PHC 7981.

PHC 7198 Advanced Qualitative Methods in Public Health (3). Advanced research design, data analysis and writing findings in qualitative research. Prerequisites: PHC 6706, PHC 6715, or equivalent advanced research methods.

PHC 7300 Biological Basis of Environmental Diseases (4). This course describes the state of homeostasis of anatomical and physiological systems where contributing environmental factors are translated to influence the human health and diseases.

PHC 7327 Emerging Issues in Environmental Health Sciences (2). This course will explore emerging scientific discoveries to understand environmental human disease and how the emerging technologies can be applied to environmental health and regulatory decisions.

PHC 7372 Signal Transduction in Environmental Health and Toxicology (3). Designed to develop critical and analytical thinking about how hazardous agents interfere with normal signaling while others may mimic endogenous stimulants and mediators.

PHC 7374 Organ-Specific Toxicology (4). Provides an advanced understanding of the responses of specific, key organ systems (e.g. immune, renal, hepatic, reproductive) to toxic insult.

PHC 7381C Neuroscience (4). This course will familiarize doctoral students with fundamental concepts in neuroscience with emphasis on the role of environmental factors play in the modulation of neurological processes.

PHC 7384 Advanced Neurotoxicology (4). This doctoral course will provide students an in-depth knowledge of how various environmental neurotoxicants may induce neurotoxicity resulting in neurodegeneration as seen in some brain diseases. Prerequisite: PHC 7381C

PHC 7385C Emerging Issues in Neurotoxicology (2). This course will require doctoral students to integrate media reports and scientific literature to develop socially-relevant and impactful hypotheses for research in environmental health sciences. Prerequisite: PHC 7381C, PHC 7384.

PHC 7437C Applied Economic Evaluation for Health Systems Research (4). This course is an advanced methods course focuses on the economic evaluation of health policies, programs, and systems. Prerequisites: PHC 6091, PHC 7095C.

PHC 7466 Policy and Advocacy in Global Health Disparities (3) This course focuses on the influence of policy and advocacy on health disparities in the United States, Caribbean region and globally and other structural factors impacting disparity.

PHC 7502 Health Promotion in the Workplace (3). This course emphasizes program design, management, and evaluation of health promotion in corporations. Issues in health assessment, fitness, wellness, and stress will be covered. Prerequisites: PHC 6589, PHC 6410.

PHC 7583 Policy and Practice in Health Promotion (3). Intensive exploration of health promotion policies with critical analysis. Preparation to develop effective policies and to assess the appropriate practice of health promotion or different levels.

PHC 7584 Advanced Research Designs (3). This course reviews and critically evaluates multiple research methods of analysis from disciplines such as psychology and sociology as they apply to health promotion research and ethics. Prerequisites: PHC 6750 and PHC 6146 or permission of the instructor.

PHC 7587 Theory Development in Health Promotion (3). Discussion and critique of the structural components and research processes related to the origination and construction of health promotion theories. Prerequisites: PHC 5409 and PHC 6602.

PHC 7588 History and Foundations of Public Health (3). This course reviews the evolution of the public health profession and the principles and practices of health promotion. Prerequisites: advanced standing.

PHC 7606 Tobacco Use: Causes, Consequences, and Control (3). The course will utilize a broad approach to provide a comprehensive overview of the history, epidemiology, health effects, and policy aspects of the tobacco epidemic. Prerequisites: None for PhD students, and core courses for MPH students.

PHC 7702 Advanced Measurement in Public Health (3). Advanced course in measurement and evaluation in public health. Computer applications for public health practice emphasized. Prerequisites: PHC 6065, PHC 6715, PHC 6750.

PHC 7705 Methods in Evidence Based Public Health (3). Review of methods in evidence based public health; study designs addressing patient reported outcome measures; health status measures, area-based health intervention evaluation, quality of life and survival measures in health interventions. Prerequisite: PHC 6065.

PHC 7711 Methodological Issues in Scientific Inquiry of Public Health Research (3). Understanding and application of analytical methods in the philosophy of science in order to explore systematically the critical methodological issues underlying public health research. Prerequisite: Doctoral standing.

PHC 7713 Advanced Environmental Toxicology Research Methods (2). Students will gain an appreciation and knowledge of key methods in environmental toxicology, and how to apply these to the design, execution, and analysis of environmental health case studies. Prerequisites: PHC 6001, PHC 6065, Ph.D. standing or advanced MPH student with departmental approval.

PHC 7716 Advanced Research Methods: Survey Research (3). Conceptualization of survey research including how to conduct a survey and present results for professional publication. Prerequisites: PHC 6706, PHC 6065.

PHC 7719 Multivariate Methods in Health Sciences Research (3). Advanced statistical methods for analysis of multivariate data and related statistical inference in public health and biomedical research. Prerequisites: PHC 6052, PHC 6091, or permission of the instructor.

PHC 7723 Survey Research in Public Health (3). This course facilitates the systematic identification, interpretation, and understanding of survey research concepts, principles, and practices in public health. Prerequisites: PHC 6000, PHC 6065, PHC 6410, PHC 6706.

PHC 7731C Advanced Neurotoxicology Research Methods (2). A rigorous doctoral level course designed to familiarize students with fundamental approaches in neurotoxicology necessary for conducting cutting-edge research in environmental health sciences. Prerequisite: PHC 7381C Corequisite: PHC 7384.

PHC 7732C Research Ethics & Scientific Integrity (1). This course will introduce and familiarize students with basic elements of research ethics using real-life scenarios to create a foundation of responsible research conduct.

PHC 7733 Theoretical Paradigms in Health Disparities Research (3). This course focuses on the concept of cultural and social diversity in public health and its importance in guiding policy, programs, services, and health within a community.

PHC 7753C Applied Econometrics for Health Systems Research (4). This methods course focuses on using econometrics methods to identify causal relationships using cross-sectional or panel data for health systems research. Prerequisites: PHC 6091, PHC 7095C.

PHC 7908C Health Systems Research Readings 1 (3). This is the first of a two-semester course sequence for doctoral students covering the main components of health system in the U.S. and abroad, and the diverse ways in which researchers analyze them. Prerequisite: Permission of the instructor.

PHC 7909C Health Systems Research Readings 2 (3). This is the second of a two-semester course sequence for doctoral students covering the main components of health systems in the U.S. and abroad, and the diverse ways in which researchers analyze them. Prerequisite: Permission of the instructor.

PHC 7917 Environmental and Occupational Health Sciences Pre Doctoral Research (1-6). This course is designed to provide the Pre-Doctoral student with experience in the conduct of a research project with guidance from appropriate environmental and occupational health faculty.

PHC 7932 Health Disparities Training and Development Seminar (3). This course focuses on health disparities development and research training in the areas of HIV, substance abuse, obesity, and diabetes with a focus in the United States and the Caribbean region.

PHC 7933 Seminar in Biostatistics (1-6). Course emphasis on the biostatistical methods used in research. Various biostatisticians will present their current research and lead class discussions on the development of their research agenda. Prerequisites: PHC 7050, PHC 7051, PHC 7054.

PHC 7980 Dissertation (1-12). Research for doctoral dissertation under the supervision of a major professor and a doctoral committee. Prerequisites: Permission of instructor and doctoral candidacy.

PHC 7981 Research Concepts and Proposal Development (3). The purpose of this course is to present the basic general components of research, to describe methods, and to present perspectives specifically and directly applicable to the field of public health. Prerequisites: PHC 6091 or equivalent.

PHC 7982 Public Health Pre Dissertation Research (1-6). This course is designed to provide Doctoral students with the guidance necessary to prepare for comprehensive examination and dissertation proposal under the guidance of the dissertation chair. Prerequisites: Admission into the Ph.D. program, instructor consent, completion of coursework.

SOW 5105 Human Behavior and the Social Environment I (3). Study of individuals and families with emphasis on the analysis of biopsychosocio-cultural factors (including racial/ethnic and gender variables) affecting human development and social functioning through the life cycle. Prerequisites: 12 semester hours of college-level courses in the social and behavioral sciences and one college-level course in biology (including coverage of human biology).

SOW 5109* Crises in the Lives of Women (3). An overview of special experiences in the lives of women which might lead women to seek professional assistance. Topics include pregnancy, domestic violence, rape, abortion, childbirth, sex discrimination, AIDS, climacteric, widowhood. Prerequisites: Senior or graduate standing.

SOW 5116 Trauma Theory and Interventions (3). This course will provide an overview of theories related to trauma over the lifespan and skills necessary to assess and intervene in situations involving trauma. Prerequisites: SOW 5105, Human Biology, Human Behavior, and Social Environment or similar. Corequisites: Social work major or similar field.

SOW 5155* Social Work Practice with Sexual Problems (3). Skills applicable to sex-related concerns encountered in social work practice. Presents theories of

the etiology of common sexual problems and explores treatment intervention modalities. Prerequisites: Graduate or senior level practice course or permission of the instructor.

SOW 5235 Social Welfare Policy and Services I (3). This course analyzes major social welfare policies and programs in the United States, their emergence, development, contemporary operations and how they shaped the development of the Social Work profession.

SOW 5240* Advanced Interventions in Child Maltreatment (3). This course will examine best practices in the health, mental health, and socio-emotional development of children and adolescents within the child welfare system. Prerequisites: SOW 5105 and SOW 5342 or advanced standing status.

SOW 5241* Advanced Child Welfare Policy and Practice (3). This course will explore professional practice and policy issues in child welfare, with emphasis on intervention in child maltreatment. Prerequisites: SOW 5235 and SOW 5105 or advanced standing status.

SOW 5324 Theory and Practice With Groups (3). Study and application of biopsychosocial, cultural dimensions, theories, techniques and intervention strategies for social work group practice. Prerequisite: SOW 5342. Corequisite: SOW 5532.

SOW 5342 Social Work Practice with Individuals and Families (3). This course is an overview of social work practice with individuals and families placing emphasis on professional values, interviewing skills, assessment, intervention, and outcome evaluation, all within a cross-cultural perspective. Pre/Corequisite: SOW 5105. Corequisite: SOW 5379L.

SOW 5344 Theory and Practice with Communities and Organizations (3). Study and application of biopsycho-socio-cultural dimensions, theories, techniques and intervention strategies for communities and organizations. Focuses on empowerment of populations at risk and promotion of social and economic justice.

SOW 5354* Crisis Intervention in Social Work Practice (3). This course examines the etiology, structure, theory, and application of crisis intervention in social work practice. It provides assessment criteria for assignment to this form of treatment and techniques for intervention. Prerequisites: Senior or graduate level practice course, or permission of the instructor.

SOW 5365* Behavior Therapy in Social Work Practice (3). Overview of the principles, clinical foundations, and applications of socio-behavioral approaches relevant to social work practice. Emphasis on behavioral change methods and problem solving in assessment, intervention, and evaluation. Prerequisite: SOW 5342 or Advanced Standing Status.

SOW 5379L Interviewing Skills Lab (3). Competency-based course providing graduate students with basic interviewing skills for social work practice. Emphasis is on acquisition of interviewing behavior rather than theory. Corequisite: SOW 5342.

SOW 5404 Social Work Research Methodology (3). This course provides information on the principles and methods of basic social work research. The ethical conduct of research is taught within the context of social work purposes and values. The formulation of problems for study that address the social needs of diverse population groups is emphasized. Prerequisite: Statistics.

SOW 5455* Writing and Managing Grants for Social Service Programs (3). Prepare students to write, develop and manage grants for social services programs. Develop knowledge of grant sources, the grant making, writing and management of grant funded social welfare services. Prerequisite: SOW 5344.

SOW 5532 Field Practicum I (3). The first masters-level field practicum and seminars that provide students with the opportunity to apply and integrate generalist social work knowledge and skills. Prerequisites: SOW 5105, 5235, 5342, 5404, 5379L. Pre/Co-Req: SOW 5629, 5344. Corequisite: SOW 5324.

SOW 5541* Advanced Standing Seminar (2). This course examines the integration of academic knowledge and social work skills that develop the profession's critical thinking foundation. Prerequisites or Corequisites: SOW 6125, SOW 5324.

SOW 5605* Medical Social Work (3). Principles of medical social work practice in hospitals and communities. Focuses on the social worker as part of the health care team, with basic knowledge of medical problems of patients and their families. Prerequisites: Graduate or senior standing.

SOW 5607* Social Work Practice and Psychopharmacology (3). Social work practice, research, and policy in relation to psychotropic drugs including effectiveness and limitations of main drug classes and ethical, professional, legal, scientific and cultural issues. Prerequisites: Graduate or senior standing.

SOW 5614* Social Work Practice with Persons Affected by Domestic Violence (3). Course prepares students to appropriately identify, assess, and intervene with persons affected by domestic violence utilizing assessment and intervention strategies in practice. Prerequisites: Graduate or Senior standing with the permission of the instructor.

SOW 5621* Social Work with Refugees, Immigrants, and Migrants (3). Provides skills and knowledge responsive to the needs of immigrants and refugees and addresses influences of cultural, ethnic, gender, age, and class differences in acculturation and service delivery. Prerequisites: Graduate or Senior standing with the permission of the instructor.

SOW 5624* Feminist Therapy in Social Work (3). Reviews basic principles of feminist therapy and focuses on the application of feminist therapy in clinical social work practice. Prerequisites: Graduate standing or permission of the instructor.

SOW 5629 Social Work Practice with Diverse Populations (3). Prepares students for responsive practice with diverse populations, with emphasis on South Florida. Includes knowledge and skills in interviewing, assessment interventions, termination, and follow-up. Prerequisite: SOW 5342.

SOW 5635* School Social Work Practice (3). Designed to assist students in developing knowledge and skills necessary for effective social work practice in school settings. Promotes understanding of social work practice

to improve the functioning of children. Prerequisite: SOW 5342 or Advanced Standing Status.

SOW 5640* Foundations in Gerontology for Health Professions (3). Implications for health professions of the biological, cross-cultural, physiological, psychological, social, and societal contexts of aging.

SOW 5641* Understanding the Process of Aging (3). Study of the physical, psychosocial, and cultural factors affecting human development in late life, from a social work perspective. Prerequisites: Graduate or senior standing and permission of the instructor.

SOW 5672* Animal Assisted Treatment for Social Work (3). An introduction to the human animal bond and animal assisted treatment. There will be illustrations of programs using small animals, horses, and dolphins. Prerequisites: Graduate or permission of instructor.

SOW 5710* Current Issues in Addiction Practices (3). An overview of chemical dependency in the social service delivery system including policy and program approaches, client assessment, treatment techniques and prevention issues. Prerequisites: Graduate or Senior standing.

SOW 5805C* Counseling the Elderly (3). Applied gerontological knowledge to counseling skills required for independent as well as frail elderly clients. Course focuses on long and short term interventions in a range of practice settings. Prerequisites: Graduate or senior standing.

SOW 5806 Disaster Behavioral Health (3). A combination seminar and lecture course in which students will learn about the fundamentals of mental and behavioral health issues and practices in disaster response and recovery. Prerequisite: SOW 5105 or Advanced Standing Status or Permission of instructor.

SOW 5905* Individual Study (1-3). Individually selected program of advanced supervised study related to specific issues in social work and social welfare. Prerequisite: Permission of the instructor.

SOW 5921 Self-Awareness and Self-Modification for Practice (3). An experience-oriented course directed toward helping students become aware of their own interpersonal processes and how these may influence their skill and effectiveness as helping persons.

SOW 5932* Seminar in Social Work (3). An exploration of various critical issues of concern to the social work profession. Prerequisites: Graduate or senior standing.

SOW 6114C* Assessment and Treatment of Addiction and Related Problems (3). Course provides increased understanding of treatment for addictive disorders including assessment, therapeutic techniques and supportive aftercare as well as community consultation and referral skills. Prerequisite: SOW 5710.

SOW 6125 Human Behavior and the Social Environment II-Psychopathology (3). Study of the psychosocial aspects of client problems, including psychopathology, frequently encountered by social workers in direct practice with attention to differential treatment issues. Prerequisite: SOW 5532 or advanced standing status.

SOW 6236 Social Welfare Policy and Services II (3). This course offers students the opportunity to gain in-depth knowledge about social welfare policy-making processes and their impact on the social service delivery system. Prerequisites: SOW 5532 and advanced standing.

SOW 6243* Child and Family Social Policy Issues (3). A comprehensive overview of the range of children and family policies, programs and issues in the U.S.A. in the context of comparing residual and institutional approaches to social service delivery, and policy implications for use of each approach.

SOW 6245* Social Welfare Policies and Services to the Elderly (3). The content of the course will center around the federal/state policies affecting the quality of life of the older person. Among the areas to be considered are an overview of the situation of the aged, specific public and private social welfare policies, including the origin of policy making, and problems involved in the process of implementation of social welfare policies for the elderly.

SOW 6281* Legal Aspects of Social Work Practice (3). Introduction to legal aspects of social work practice including client and agency rights, malpractice issues, legal research, and practice interaction with legal counsel, legal services, and the courts.

SOW 6351 Clinical Intervention in Couple and Family Social Work Practice (3). Provides students with a critical and culturally sensitive understanding and application of the major models of social work intervention with couples and families. Prerequisite: SOW 6533 and SOW 6425 Assess. And Intervention. Corequisite: SOW 6534.

SOW 6359* Social Work Treatment with Families of the Elderly (3). Preventive and treatment approaches in social work practice with families of the elderly. Focus on aging family as client-system; knowledge, skills needed for a range of interventions are provided.

SOW 6372* Supervision, Consultation and Staff Development (3). Key aspects of the social services supervisory situation are explored. This course emphasizes supervisory competence, issues facing supervisor and supervise. Also explores consultation and staff development.

SOW 6386* Social Program Planning and Development (3). Theory and practice of social program planning and development for organizations and communities. Social services to families, children and elderly, especially service needs for which programs do not exist will receive special emphasis.

SOW 6387* Social Services Management Skills (3). Learning units in which students practice and demonstrate, through simulation and participation, skills in major aspects of social services management.

SOW 6425 Clinical Assessment and Intervention Planning (3). Critical analysis of assessment models, the current issues, skills of assessment and intervention planning, including the evidence basis of assessment practice. Prerequisites: SOW 5324 and SOW 5532 or advanced standing. Corequisite: SOW 6533.

SOW 6435 Evidence-Based Social Work Practice (3). Examines the foundations, tools to find resources, design tailored interventions, implement, and evaluate evidence-based social work practice. Prerequisites: SOW 5532 or advanced standing.

SOW 6436* Empirically-Based Practice in Social Work (3). Advanced utilization of intervention effectiveness research results and techniques in social work practice with individuals, families and groups. Prerequisites: SOW 6435 and an advanced practice course.

SOW 6533 Field Practicum II (3). The first part of two masters-level advanced field practicum courses and integrative seminars that provide students with the opportunity to apply and integrate advanced clinical knowledge and skills. Prerequisites: A BSW/BSSW degree and advanced standing status or satisfactory completion of SOW 5532, 5344, 5629, 5324. Pre/Co-Reqs: SOW 6125, 6435, 6236. Corequisite: SOW 6425.

SOW 6534 Field Practicum III (6). The second advanced field practicum/ integrative seminar which includes licensure prep and capstone, giving students the opportunity to apply and integrate advanced clinical knowledge and skills. Prerequisites: SOW 6533, 6435, 6125, 6236. Corequisite: SOW 6351.

SOW 6611* Advanced Practice with Family Systems (3). Advanced clinical skills in working with families and couples. Focus will be given to non-traditional change strategies such as family sculpting, family reenactment, family choreography and dramatization. Extensive use of videotaped case simulations, co-therapy, live supervision and peer evaluation models. Prerequisites: SOW 6351 or permission of the instructor.

SOW 6646* Social Work Practice with the Elderly (3). The knowledge and skills necessary for advanced social work practice in social agencies which deal with problems and issues of the aging population in contemporary society.

SOW 6647* Advocacy in Social Work Practice (3). This course covers skills and knowledge necessary for the practice of advocacy on behalf of individuals and groups, including political, legislative, and organizational perspectives.

SOW 6649* Social Work Practice in Long Term Care and the Elderly (3). This course focuses on direct practice with the frail elderly and their families within the rapidly changing system of community and institutional long term care.

SOW 6655* Clinical Intervention in Child and Adolescent Social Work Practice (3). This course will provide students with the opportunity to select, apply and evaluate appropriate intervention strategies in working with children and adolescents. Specific attention to socio-cultural, gender and racial differences in understanding development issues and in critically assessing the applicability of practice theories. Prerequisites: SOW 5324, SOW 5532, or advanced standing program.

SOW 6656* Decision-Making in Child Placement (3). This course will stress decision-making and interventions when substitute care is considered or carried out. Termination of parental rights and the choice and timing of placements of children will be considered.

SOW 6711* Prevention of Addiction and Related Problems (3). Course provides increased understanding of substance abuse prevention including history and effective approaches as well as skills to reinforce healthy lifestyles and identify early potential problems. Prerequisite: SOW 5710.

SOW 6914* Independent Research (1-6). Individually selected program of supervised data collection and analysis on specific topics in social work and social welfare. Prerequisites: SOW 5404 and permission of the instructor.

SOW 7216 Social Welfare Policy (3). Using a systemic approach and focusing on high-risk populations, this course analyzes the social welfare policy-making process and its impact on public and private social service delivery systems. Prerequisites: Admission to Ph.D. program or permission of the instructor.

SOW 7237 Micro-Practice Theory and Research (3). Analysis of research priorities in the development of effective interventions in the social welfare field. Prerequisites: Admission to Ph.D. program or permission of the instructor.

SOW 7238 Macro-Practice Theory and Research (3). This course focuses on intervention theory research and methods at the community, organizational and societal level. Prerequisites: Admission to Ph.D. program or permission of the instructor.

SOW 7406 History and Systems of Social Work Research (3). Development, dissemination, and utilization of Social Work Research; the social work research tradition; types of research questions in Social Welfare; past and current contextual influences on social work research.

SOW 7492 Theory Development and Research Methods in Social Welfare (3). The logic of social research, role of theory in social welfare research, range and limitations of research methods, ethical issues. Students begin work on their doctoral research proposal. Prerequisites or Corequisites: STA 6166 or equivalent. Prerequisites: Admission to Ph.D. program or permission of the instructor.

SOW 7493 Research Methods in Social Welfare II (3). This second course in a two-semester sequence focuses primarily on design, measurement, and analysis issues in ethno-graphic field studies, surveys and group experiments for the evaluation of intervention technology in social welfare. Prerequisites: SOW 7492 and STA 6166, or equivalent.

SOW 7916 Supervised Research (3). Directed experience in the conduct of research in social welfare and social work under the guidance of a faculty member. Must be taken twice for a total of six credits. Prerequisite: Completion of first year.

SOW 7932 Interdisciplinary Seminar on Social Welfare Within an Urban Milieu (3). Academics from social work and allied disciplines and professions will discuss their theoretical interests and research activities. Prerequisite: Successful completion of first year of Doctoral program.

SOW 7936 Dissertation Seminar in Social Welfare (3). This course focuses on helping students with the development of the dissertation prospectus. Emphasis is placed on development of an acceptable research protocol in the students' specialization area. Prerequisites: SOW 7215, SOW 7237, SOW 7238, SOW 7492, and SOW 7493.

SOW 7980 Ph.D. Dissertation (1-12). This course provides dissertation guidance to doctoral candidates in the Ph.D. program in Social Welfare. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

SYG 6932 Special Topics in Disaster Studies (3). Case studies of major disasters used to explore topics such as impact of gender, class, ethnicity, and age on vulnerability, response, and outcome; effects of larger political and economic systems; and relationship to social change. May be repeated with change of topic.

*Social Work Electives

For additional and updated information about degrees offered, entrance requirements, and services, please visit our website: **https://stempel.fiu.edu/academics/**

Robert Stempel College of Public Health & Social Work

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Chairs and Directors
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Chaplin School of Hospitality and Tourism Management

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Diann R. Newman, *Vice Dean*
Joseph M. Cilli, *Assistant Dean and Director of Online Learning*
Rocco M. Angelo, *Professor Emeritus and E.M. Statler Professor, Alumni Relations*
Mohammed A. Qureshi, *Faculty Administrator, Director of Facilities Administration*
Imran Ahmad, *Research Assistant Professor*
Brian Barker, *Endowed Chair, Diversity, Equity, and Inclusion*
Eric Beckman, *Assistant Professor*
John Buschman, *Assistant Professor, Director of Assessments and Accreditation, Co-director Global Sustainable Tourism Program*
Lisa N. Cain, *Associate Professor*
Howook "Sean" Chang, *Associate Professor*
Daniel Cormany, *Assistant Teaching Professor*
Clay Dickinson, *Assistant Teaching Professor*
Nathan Dodge, *Associate Teaching Professor*
Joel Feigenheimer, *Assistant Professor*
Barry Gump, *Professor and Harvey R. Chaplin Eminent Scholar*
Mike T. Hampton, *Professor*
Oren Hertz, *Assistant Professor*
Miranda Kitterlin, *Associate Professor and Coca-Cola Endowed Professor*
Twila-Mae Logan, *Associate Professor*
Carolin Lusby, *Associate Professor and Co-director Global Sustainable Tourism Program*
Steven V. Moll, *Associate Professor and Vice Provost Emeritus*
Elisa Moncarz, *Professor Emeritus*
Andrew Moreo*, Associate Professor, Director of Research*
Dongyun Oh, *Assistant Professor*
Nancy Scanlon, *Associate Professor*
Mary L. Tanke, *Associate Professor and Ernest R. Graham Distinguished Professor*
John H. Thomas, *Professor*
Jinlin Zhao, *Professor and Director, Graduate Programs*

The Chaplin School of Hospitality and Tourism Management offers Bachelor and Master Degrees in Hospitality Management that combine practical experience with classroom theory to assist the student in gaining the understanding, skills, and techniques needed to qualify for progressively responsible job opportunities and to achieve his or her career goals in the hospitality and tourism industries. The graduate program is available in person and completely online. Some courses available in the evening.

With the cooperation of industry executives, the School has created an internship program which literally utilizes the hotels, resorts, restaurants, clubs, airlines, travel agencies, and cruise lines as practice labs for students.

An Industry Advisory Council - which includes outstanding executives in the lodging, food service and tourism industries - works regularly with the faculty, staff, and students of the School to formulate and update a curriculum that is current, flexible, and related to the needs of the hospitality and tourism industries.

The School was designated a Program of Distinction by the former Florida Board of Education.

Note: The programs, policies, requirements, and regulations listed in this catalog are continually subject to review, in order to serve the needs of the University's various publics, and to respond to the mandates of the Florida Board of Education and the Florida Legislature. Changes may be made without advanced notice. Please refer to the General Information section for the University's policies, requirements, and regulations.

Location

The School is located on 200 tropical acres in a resort-like setting at the scenic Biscayne Bay Campus at Biscayne Boulevard and Northeast 151 Street, North Miami, Florida.

Admission

Applicants to the School must submit a graduate application for admission to the University and must follow the regular University admission procedures described in the Admission section of the catalog.
Applicants must be eligible for admission to the University before admission to the School. Admissions standards for the Master of Science degree in Hospitality Management are an earned four-year bachelor's degree with a 3.0 grade point average (GPA) on a 4.0 scale. International graduate student applicants whose native language is not English are required to demonstrate English language proficiency through one of the following:

- 80 on the iBT TOEFL (equivalent to 550 on the paperbased version of the Test of English as a Foreign Language);
- 6.5 overall on the International English Language Testing System (IELTS)
- 53 Pearson Test of English - Academic
- Cambridge English - Advanced;
- Applicants who hold an undergraduate or graduate degree from an accredited institution where the language of instruction is English;

Or
Successful completion of University level English courses from a regionally accredited institution (e.g. ENC 1101, ENC 1102 or other equivalent courses with a letter grade of "B" or higher) that prepare applicants to be proficient in English.
Or
ELI Level Six: successful completion with passing grades for all content areas. Plus at least one of the following:

i) Interview (in person when possible or via videoconference).
ii) Proctored video-taped responses to questions from the. admissions committee.

An applicant with an undergraduate upper division grade point average (GPA) of less than 3.0 should submit scores of Graduate Record Examination (GRE or Graduate Management Admission Test (GMAT), which will be taken into consideration by the admissions committee in its evaluation of the application. Students who have earned a minimum 3.0 (as evaluated by the University Graduate Admission's office) may be waived from the GRE or GMAT requirement.

A maximum of six semester hours of related graduate credit may be transferred from another university or from the graduate programs of this University provided they meet University requirements.

There is a requirement that all students complete 1000 hours of practical work experience in the hospitality or tourism industry in addition to the Graduate Internship of 300 hours. A minimum of 800 hours of the total 1300 hours must be completed while enrolled at FIU. Work experience documentation is required.

Degree Requirements

To be eligible for a Master's degree, a student must:

1. Satisfy all University requirements for a Master's degree.
2. Complete a minimum of 33 semester hours of graduate level course work in the Hospitality Management curriculum. (Exception: Executive Hospitality Management Track).
3. Earn a minimum grade point average of 'B' (3.0) in all approved courses in the student's graduate program of study.

No courses, in which a grade below 'C' is earned, may be counted toward the Master's Degree in Hospitality Management. However, all approved work taken as a graduate student will be counted in computing the grade point average, including courses graded 'D' or 'F'.

4. Pass an English Assessment Examination given by the University's Writing Center.

Non-Degree Seeking Students

Individuals who do not have the educational requirements to meet degree admission standards may be interested in enrolling in certain specific courses to improve their skills and to enhance their chances for promotion. A person may register as a Non Degree Seeking Student for a maximum of 12 semester hours. These credits and grades will not be considered for admission to our degree programs.

Distance Education Programs

The School of Hospitality Management offers the following programs via distance learning:

1. Executive Master of Science in Hospitality Management
2. Master of Science in Hospitality Management
3. Master of Science in Hospitality Management: Specialization in Real Estate Development
4. Master of Science in Hospitality Management: Specialization in Revenue Management
5. Master of Science in Hospitality Management: Mega Events Management

Master of Science in Hospitality Management

Core Requirements: (33)

HMG 6246	Organizational Behavior in Hospitality and Tourism	3
HMG 6257	Hospitality and Tourism Industry Research Analysis	3
HMG 6280	Global Issues in Hospitality and Tourism	3
HMG 6296	Strategic Management for Hospitality and Tourism	3
HMG 6466	Hospitality and Tourism Revenue Management	3
	or	
HMG 6476	Feasibility Studies for the Hospitality Industry	3
	or	
HMG 6478	Restaurant Development	3
HMG 6477	Accounting and Financial Management	3
HMG 6586	Research and Statistical Methods	3
HMG 6596	Marketing and Sales in Hospitality and Tourism	3
HMG 6697	Hospitality Law Seminar	3
HMG 6916	Hospitality Industry Research Project	3
	or	
HMG 6946	Graduate Internship*	3
Elective Course		3

Industry Experience Requirement: 1300 hours*

The three credit Graduate Internship (HMG 6946) involves 300 hours of hospitality practical training experience and is immediately required for all graduate students at the beginning of their first semester of studies unless prior experience warrants a waiver of this requirement (see advisor for information) or students are approved to complete HMG 6916, Hospitality Industry Research Project.

Prior to registering for Internship, students are required to complete 1000 hours of hospitality related practical work experience. A minimum of 500 out of the 1000 hours must be completed while enrolled in the graduate program at FIU and up to 500 hours may be completed prior to enrolling at FIU. Work experience documentation is required. If the candidate provides documentation of 1300 hours of work experience of management level work, the requirement may be waived.

Master of Science in Hospitality Management: Executive Masters Track

Management Experience

A minimum of five years hospitality related management experience is required for acceptance into this track. Applicants must currently hold a management position in the hospitality or tourism industry. A Bachelor's degree from an accredited institution is required.

Core Requirements: (30)

HMG 6246	Organizational Behavior in Hospitality and Tourism	3
HMG 6257	Hospitality and Tourism Industry Research Analysis	3
HMG 6280	Global Issues in Hospitality and Tourism	3
HMG 6296	Strategic Management for Hospitality and Tourism	3
HMG 6446	Hospitality and Tourism Technology Innovations	3
HMG 6466	Hospitality and Tourism Revenue Management	3
HMG 6476	Feasibility Studies for the Hospitality Industry	3
HMG 6477	Financial Management for the Hospitality Industry	3
HMG 6596	Marketing and Sales in Hospitality and Tourism	3
HMG 6697	Hospitality Law Seminar	3

Master of Science in Hospitality Management: Thesis Track

Course Requirements (33)

HMG 6246	Organizational Behavior in Hospitality and Tourism	3
HMG 6257	Hospitality and Tourism Industry Research Analysis	3
HMG 6280	Global Issues in Hospitality and Tourism	3
HMG 6296	Strategic Management for Hospitality and Tourism	3
HMG 6477	Accounting and Financial Management	3
HMG 6586	Research and Statistical Methods	3
HMG 6596	Marketing and Sales in Hospitality and Tourism	3
HMG 6697	Hospitality Law Seminar	3
HMG 6466	Hospitality and Tourism Revenue Management	3
	or	
HMG 6476	Feasibility Studies for the Hospitality Industry	3
	or	
HMG 6478	Restaurant Development	3
HMG 6916	Hospitality Industry Research Project	3
	or	
HMG 6972	Thesis	3
Elective Graduate Course		3

Master of Science in Hospitality Management: Specialization in Real Estate Development

This specialization is based on the competencies required of today's hospitality executives, designed for candidates who want to jump start their careers with an advanced degree intended to give students an in-depth knowledge about the business of real estate and development in the hospitality industry. This specialization will provide interested students the opportunity to achieve success in the growing field of hospitality real estate development and finance.

Course Requirements (33)

HMG 6246	Organizational Behavior in Hospitality and Tourism	3
HMG 6280	Global Issues in Hospitality and Tourism	3
HMG 6296	Strategic Management for Hospitality and Tourism	3
HMG 6429	Hospitality Asset Management	3
HMG 6476	Feasibility Studies for the Hospitality Industry	3
HMG 6477	Financial Management for the Hospitality Industry	3
HMG 6486	Investment Analysis for the Hospitality Industry	3
HMG 6607	Hospitality Real Estate Development	3
HMG 6697	Hospitality Law Seminar	3
HMG 6916	Hospitality Industry Research Project	3
	or	
HMG 6946	Graduate Internship	3
Elective Graduate Course		

Master of Science in Hospitality Management: Specialization in Revenue Management (Fully Online)

This specialization is based on the competencies required of today's hospitality executives, designed for candidates who want to jump start their careers with an advanced degree in one of the fastest growing sectors in the industry. As a critical thinker and strategist with the goal of maximizing revenue, you will sharpen your data-gathering, analytical and decision-making skills.

Course Requirements (33)

HMG 6596	Marketing and Sales in Hospitality and Tourism	3
HMG 6280	Global Issues in Hospitality and Tourism	3
HMG 6296	Strategic Management for Hospitality and Tourism	3
HMG 6464	Segmentation and Price Optimization	3
HMG 6466	Hospitality and Tourism Revenue Management	3
HMG 6475	Demand Management	3
HMG 6477	Financial Management for the Hospitality Industry	3
HMG 6479	Strategic Revenue Management	3
HMG 6697	Hospitality Law Seminar	3
HMG 6916	Hospitality Industry Research Project	3
	or	
HMG 6946	Graduate Internship	3
Elective Graduate Course		

Master of Science in Hospitality Management: Mega Events Management

This specialization is for those who are interested in event management and are now looking to prepare themselves for the next step in their career development. Courses focus on festivals, trade shows, major conventions, sports events, and concerts. This specialization will provide interested students the opportunity to achieve success in the growing field of large-scale event management.

Course Requirements (33)

HMG 6257	Hospitality and Tourism Industry Research Analysis	3
HMG 6446	Hospitality and Tourism Technology Innovations	3
HMG 6477	Financial Management for the Hospitality Industry	3
HMG 6697	Hospitality Law Seminar	3
HMG 6280	Global Issues in Hospitality and Tourism	3
HMG 6296	Strategic Management for Hospitality and Tourism	3
HMG 6001	Event Feasibility	3
HMG 6500	Event Marketing and Sponsorship	3
HMG 6630	Event Safety & Security Planning	3
HMG 6200	Mega Events Management	3
HMG 6946	Graduate Internship	3

Master of Science in Hospitality Management: Specialization in Cruise Line Operations (Fully Online)

This specialization is based on the competencies required of today's cruise line professionals, designed for candidates who want to jump start their careers with an advanced degree in one of the fastest growing sectors in the industry. This specialization will provide students the opportunity to achieve success in cruise line management with an overall goal of improving a wide range of operations.

Course Requirements (33)

HMG 6246	Organizational Behavior in Hospitality and Tourism	3
HMG 6257	Hospitality and Tourism Industry Research Analysis	3
HMG 6280	Global Issues in Hospitality and Tourism	3
HMG 6296	Strategic Management for Hospitality and Tourism	3
HMG 6XXX	Logistics and Shoreside Operations	3
HMG 6XXX	Cruise Line Leadership	3
HMG 6XXX	Cruise Industry Law	3
HMG 6477	Financial Management for the Hospitality Industry	3
HMG 6XXX	Sustainability in Cruise Line Operations	3
HMG 6446	Hospitality and Tourism Technology Innovations	3
HMG 6916	Hospitality Industry Research Project	3
or		
HMG 6946	Graduate Internship	3

Combined BS/MS in Hospitality Management Pathway

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than 12 graduate credits may be applied toward both degrees. Students must earn a "B" or higher grade in these 4 courses in order to apply towards the Master's degree.

Admission Requirements

1. Current enrollment in the Bachelor's Degree program in Hospitality Management at FIU.
2. Completed at least 75 credit hours of course work.
3. Current GPA must be 3.2 or higher.

General Requirements

1. Complete the separate combined degree pathway application.
2. Applications are typically submitted prior to the first semester of the student's senior year

Required: (33 credits)

HMG 6280	Global Issues in Hospitality and Tourism	3
HMG 6246	Organizational Behavior in Hospitality and Tourism	3
HMG 6296	Strategic Management for Hospitality and Tourism	3
HMG 6257	Hospitality and Tourism Industry Research Analysis	3
HMG 6477	Accounting and Financial Management	3
HMG 6476	Feasibility Studies for the Hospitality Industry	3
	or	
HMG 6478	Restaurant Development	3
HMG 6466	Hospitality and Tourism Revenue Management	3
HMG 6697	Hospitality Law Seminar	3
HMG 6946	Graduate Internship	3
HMG 6596	Marketing and Sales in Hospitality and Tourism	3
HMG 6586	Research and Statistical Methods for Hospitality	3
Elective General Course		3

Overlap

Up to 4 courses (12 credits) may be used to satisfy both the bachelor's and master's degree requirements. Courses must be 5000- or 6000- level School of Hospitality and Tourism Management Graduate Courses and students must earn a grade of a "B" or higher.

Hospitality Management 4+1 Degree Pathway

With their advisor's approval, students from undergraduate majors other than Hospitality Management may apply to the Hospitality 4+1 degree pathway. If accepted, students will be allowed to take up to 12 credits of graduate hospitality management courses which will apply towards both their undergraduate degree requirements and the master's degree program in hospitality management.
The admission requirements are:

1. Current enrollment in an approved bachelor's degree program at FIU.
2. Completed a minimum of 75 credits.
3. Current GPA must be 3.2 or higher
4. Complete the separate 4+1 application, including signed approval by the director or designee from the graduate program.

Course Descriptions

Definition of Prefixes

FSS - Food Service Systems; HFT - Hotel, Food, Tourism; HMG – Hospitality Management Graduate.
Courses that meet the University's Global Learning requirement are identified as GL.

FSS 5755 International Food Production Management (3). Study of international commercial food production management designed for hospitality graduate students. This course includes instruction on international cooking principles as well as hands-on food preparation in the food laboratories. This course includes weekly interactive lectures and a laboratory experience to allow the learner

to develop skills required in food preparation and management.

FSS 6108 Purchasing and Menu Planning (3). Advanced information on sources, grades and standards, criteria for selection, purchasing and storage for the major foods, including development of specifications. Consideration of the menu pattern with particular emphasis on costing, pricing, and the work load placed on the production staff. Item analysis and merchandising features are emphasized.

FSS 6365 Food Service Systems (3). Principles of system analysis applied to the food service industry. Attention is given to the organization of modern food production, preparation, and distribution systems. Case study problems require application of economic and management principles for solution.

FSS 6452 Advanced Food Service Design Operations (3). Advanced planning, programming, and project documentation for commercial food service facilities. Spatial, environmental, and electro-mechanical design factors are stressed, with particular emphasis on efficiency modulation and investment aspects. Recommended: HFT 4343.

FSS 6834 Food Service Research (3). The planning, executing, and reporting of an individual research project dealing with significant problems in food service. Students demonstrate an understanding of research techniques through data collection, evaluation, and interpretation.

HMG 5000 Hospitality Pathway to Success (0). A comprehensive overview of academic policies, requirements, and career portfolio development as required for graduation from the Chaplin School of Hospitality and Tourism Management graduate program.

HMG 5485 Financial Accounting and Analysis for the Hospitality Industry (3). This course will introduce students to the basic accounting framework in the hospitality and tourism industries, including an understanding of the recording of transactions and the structure of hospitality financial statements based on the Uniform System of Accounts for the Lodging Industry (USAL).

HMG 5547 Leadership Training for Team Building (3). Students will learn leadership skills to facilitate team building activities in order to improve group communication, trust, problem-solving, and productivity.

HMG 5655 Franchising and Management Contracts (3). A comprehensive course designed to examine the franchise/franchiser, franchisee and owner/manager relationships in hotel and food service operations and the mutual obligations created by each type of contract.

HMG 5719 Implementation and Management of Tourism Projects (3). Practical development, implementation, and management of tourism projects and programs with emphasis on developing tour packages for international and developing nation's situations. Prerequisites: HFT 3700 or equivalent.

HMG 5877 Wine Technology (3). This course is an introduction to the appreciation and management of wine, successful operators merchandising wines in restaurants, retail stores, supermarkets, and wholesale companies. Students learn the economies of buying and selling wine, how to taste and evaluate wines of the great vineyards around the world.

HMG 5878 Wine, Culture and Society (3). A survey of the renowned old and new world wine regions, their evolution in western culture and their role in contemporary society. Grape Varieties/celebrated vineyards; wine classification systems; influence of media on wine consumption. Detailed focus on the restaurant industry in Miami and the U.S. Management of restaurant wine lists. Prerequisite: Must be at least 21 years of age.

HMG 5901, 5906, 5911 Independent Studies (VAR). With permission from the Associate Dean, students may engage in independent research projects and other approved phases of independent study. Prerequisite: Permission.

HMG 5936 Intensive Pod in the Hospitality Industry (1). This course will provide intensive instruction on a particular topic or skill not otherwise offered in the curriculum. This course is repeatable.

HMG 5945 Graduate Hospitality Management Internship (0-3). Managerial experience in one of the major phases of hospitality operations and visitor industry. Reports are required. Prerequisite: Permission of the instructor.

HMG 5957 Study Abroad: Hospitality and Tourism (3). An integrated program of learning conducted in foreign environments for hospitality management majors. They will be exposed to different cultures and taught how to manage businesses in other countries.

HMG 6001 Event Feasibility (3). Determine the viability of an event proposal & selecting an appropriate location; factors, financial considerations, & time-lines for determining whether an event is economically & socially advisable.

HMG 6200 Mega Event Management (3). Leadership in large scale event production requires coordinating and supervising a plethora of trained and untrained personnel. Structure, methodology and planning are examined.

HMG 6208 Hospitality Industry Consulting (3). Provides in-depth analysis of hospitality consulting. Includes opportunities techniques and methodologies used in practice. Lectures, case studies, projects and site visits are used. Prerequisites: HFT 4464 or HFT 4465.

HMG 6225 Multicultural Human Resources Management for the Hospitality Industry (3). A study of personnel, consumer relations, and diversity in the hospitality industry within a multicultural, multiracial, and multi ethnic society through an examination of value systems and cultural characteristics.

HMG 6226 Motivation and Leadership (3). Study of motivation, perception, learning, attitude formation, incentive theory, and job satisfaction, with emphasis on leadership and group task performance.

HMG 6227 Hospitality Management Training Systems (3). A course designed to develop and provide applications of proven training systems and methods for managers in the hospitality industry. The case study method will be used.

HMG 6228 Managing Self and Others in the Hospitality Industry (3). Students will increase managerial

effectiveness by learning and applying a model for enhancing self-esteem and integrating that model into their managerial philosophy for the hospitality industry.

HMG 6245 Hospitality/Tourism Service Operations Management – *GL* (3). Application of techniques to create, operate, staff, and evaluate service systems for hospitality/tourism enterprises. Emphasis on queues, forecasting demand, route and scheduling and quality management. Prerequisites: HFT 3505 or HFT 4509.

HMG 6246 Organizational Behavior in Hospitality Industry and Tourism (3). Study of human behavior in organizational settings, the interface between human behavior & organizations; reflecting several levels of analysis & a wide variety of interactions.

HMG 6256 International Hotel Operations (3). A consideration of various environments within which the international hospitality firm operates. Organizational, financial, and marketing factors are of major concern. Emphasis is placed on those problems and constraints which are uniquely different from problems of firms engaged in domestic operations of a similar nature. Prerequisites: HFT 2401, HFT 3503.

HMG 6257 Hospitality and Tourism Industry Research Analysis (3). Explore emerging domestic & global issues using content analysis & other methodologies to identify & analyze relevant industry problems facing management in the hospitality & tourism industry.

HMG 6278 Timeshare Management (3). Course covers management, marketing, sales legislation, financing, and budgeting of timeshare and vacation ownership properties. Opportunity to gain AEI certification.

HMG 6280 Global Issues in Hospitality and Tourism (3). This course synthesizes theories & concepts of globalization, multinational strategy & international business studies by providing students an opportunity to develop analytical & interpretive skills.

HMG 6291 Entrepreneurship in the Hospitality and Tourism Industry (3). This course will help students understand the rationale and methods leading to a major acquisition and the problems and solutions that go along with the decision. Prerequisites: HFT 2401 and HFT 4464.

HMG 6296 Strategic Management for Hospitality and Tourism (3). Adv. course focusing on thinking strategically & anticipating the future in global economy defined by uncertainly requiring knowledge in strategic resource assessment, decision-making & allocation.

HMG 6297 Seminar in Management Methods (3). Class will be divided into small groups, each of which will meet regularly with the executive committee of an area hotel or restaurant. Each group will be, in reality, the junior executive committee for the property. The groups will come together periodically for analysis and discussion of their experiences, and to relate their experiences to principles of modern management.

HMG 6299 Case Studies in Hospitality Management (3). Case studies are used to analyze and integrate the various disciplines of hospitality management and the visitor industry. A critical attitude toward all administrative and management thought is encouraged. Prerequisite: HMG 6477.

HMG 6325 Hospitality Facilities Engineering and Management (3). Hospitality facilities management from value-oriented system engineering perspective emphasizing management responsibilities for efficiency in building design, operations and utilities systems. Prerequisite: HFT 2401.

HMG 6346 Design and Planning of Restaurants and Hotels (3). Advanced level of study of all aspects considered in designing and planning a restaurant or hotel. Includes lectures, case studies, and laboratory drawing exercises. Scheduling and cost controls considered. Prerequisite: HFT 3263.

HMG 6404 Non Commercial and Contract Food Service Management (3). Advanced management of food service operations in noncommercial facilities, self operated and contract managed. Includes business and industry, health care, campus dining, correctional, and food service vending.

HMG 6429 Hospitality Asset Management (3). This course will present an overview of the role of hospitality industry asset managers as well as an in-depth study of the techniques and practices employed by them in their representation of ownership.

HMG 6446 Hospitality and Tourism Technology Innovations (3). Advanced course examining Information Technology and how it's utilized to gain competitive advantage - focusing on general concepts of e-commerce, F&B innovations, lodging and GDS, and analytics.

HMG 6447 Hotel Information Systems (3). A seminar on computer systems and their applications within the hotel industry. An intensive study of a computerized property management system. All computer applications are examined, from reservations to the back office through a series of assignments and projects. Prerequisites: HFT 2441 or HMG 6446.

HMG 6448 Advanced Hospitality Computer Applications (3). Importing financial data, international features, linking workbooks, mapping geographical data, scenario manager, goal seeking and optimization problems will be covered. Prerequisites: HFT 2441 or equivalent.

HMG 6455 Revenue Optimization Science (3). Includes applying data & mathematical techniques and algorithms to understand factors that affect business revenue & further optimize revenue via data driven decision-making and predictive models. Prerequisite: HMG 6584

HMG 6464 Segmentation and Price Optimization (3). This course expands upon the central concepts in revenue management—RevPAR (Revenue Per Available Room) and RevPASH (Revenue Per Available Seat Hour). Prerequisite: HMG 6466

HMG 6466 Hospitality and Tourism Revenue Management (3). Explores the scope & application of revenue management in service companies within the Hospitality & Tourism industry.

HMG 6472 Feasibility Studies for Tourism Projects (3). In-depth study of the tools and techniques available for evaluating financial feasibility and cost-benefit analysis of tourism projects. Prerequisites: ECO 2013 and HFT 4465.

HMG 6475 Demand Management: Hotel Revenue Distribution Channels (3). Hospitality demand

management is defined as the art and science of dynamically managing demand for hospitality services to optimize profitability and customer relationships. Prerequisite: HMG 6466

HMG 6476 Feasibility Studies for the Hospitality Industry (3). In-depth study of the tools and techniques available for evaluating financial feasibility of a hospitality investment. Feasibility study required.

HMG 6477 Accounting and Financial Management (3). Specialized accounting & finance tools for analysis as related to the hospitality & tourism industry. Application of budgeting & pricing models, risk/return trade off & capital investment analysis.

HMG 6478 Restaurant Development (3). A study of the procedures to research and develop a restaurant from concept to opening. Emphasis will be on market research, site development, financial feasibility, and the formulation of an operating plan for an individual restaurant.

HMG 6479 Strategic Revenue Management (3). This course provides a brief review of fundamental microeconomics, and an illustration for determining a customer's willingness to pay. Prerequisite: HMG 6466

HMG 6486 Investment Analysis for the Hospitality Industry (3). Advanced investment methods and opportunities with emphasis on securities of the hospitality industry, financing techniques, syndication, negotiations.

HMG 6494 Restaurant Information Systems (3). An in-depth study of principles relating to use of computer systems in the restaurant and food service industry. The student is required to implement a simulated restaurant on computer systems. This simulation includes personnel files, daily management, menu explosion and analysis, and inventory tracking. A research project will be assigned. Prerequisites: HFT 2441 or HMG 6446.

HMG 6500 Event Marketing and Sponsorship (3). Examines both marketing trends and sponsorship development. In experiential marketing, event design and promotion must reflect the most current developments in marketing, including social media.

HMG 6507 Tourism Marketing on the Internet (3). An in-depth study of Internet Web site Hosting for tourism managers, including a detailed examination of the current practices of on-line tourism marketing and tourism destination management systems. Prerequisites: HFT 3503, HMG 6555.

HMG 6525 Sales Tactics for Hospitality Industry (3). Advanced course investigating sales tactics and procedures used in hospitality sales environment. Practical application role plays and skill rehearsals used. Prerequisite: HFT 3503.

HMG 6526 Sales Management for the Hospitality Industry (3). Analyzes strategic processes for competitive sales management in hospitality industry. Uses critical thinking models, decision-making simulations and field operation assessments for managing sales function. Prerequisite: HFT 3503.

HMG 6555 e-Commerce for Hospitality and Tourism (3). Planning and managing e-Commerce for hospitality global distribution systems, including major opportunities, limitations, issues and risks from managerial perspectives.

HMG 6562 Global Destination Marketing Organizations (3). An advanced study of the evolution and growth, mission, structure, funding, and roles of the different types of Destination Marketing Organizations worldwide. Prerequisites: HFT 4509 or equivalent.

HMG 6567 Entrepreneurial Marketing for Hospitality and Tourism (3). This class offers hands-on tools for business success and a vehicle for redefining products and markets in innovative ways that produce sustainable competitive advantage. Database management will be used.

HMG 6584 Data Science in Hospitality (3). Includes applying data science techniques, such as data wrangling, data management, exploratory data analysis, predictive modeling, regression & classification to problems in hospitality & tourism. Prerequisites: CAP 5768, CAP 5771, STA 6244. Corequisite: STA 6247

HMG 6585 Customer Experience Design & Behavior Analysis (3). Crafting the customer experience by measuring it to produce robust data sets. Model, analyze/assess the customer experience & iteratively design & influence customer experience & behavior using data. Corequisite: HMG 6584

HMG 6586 Research and Statistical Methods (3). A study of basic research and statistical methodology applied to a variety of hospitality industry research projects. Techniques for data collection, interpretation and methods of reporting are the focus.

HMG 6596 Marketing and Sales in Hospitality and Tourism (3). An examination of the role of marketing strategy and management within the overall strategic planning process of hospitality/tourism organizations.

HMG 6605 Legislation and the Hospitality Industry (3). An advanced study of the legislative requirements imposed upon hospitality industry operators. Special emphasis is placed on the minimum wage law, sales tax, uniform provision and maintenance, tip credit, the determination of what constitutes hours worked for the various job categories, discrimination, and sexual harassment.

HMG 6607 Hospitality Real Estate Development (3). This course will examine/analyze how hotels, resorts, condo-hotels, vacation properties are developed from concept to planning, analysis, financing and management. Will be conducted in a seminar environment.

HMG 6609 Negotiating Strategies for the Hospitality Industry (3). Students study and practice negotiating strategies to reach more satisfactory outcomes from a business point-of-view. The hospitality industry requires skilled negotiations regarding management contracts, supplier agreements, alliance and franchise agreements.

HMG 6630 Event Safety & Security Planning (3). Starting with risk management assessment, strategies and techniques are explored to operate an event which anticipates and is ready to respond to security, wellness and facilities threats.

HMG 6697 Hospitality Law Seminar (3). New laws and their impact on the hospitality industry are examined. Students research current legal issues and problems and

explore the impact of new legislation on the hospitality industry.

HMG 6704 Contemporary Issues in Tourism (3). An in-depth study of current issues and trends confronting the fast development of the tourism activity at national and international levels.

HMG 6705 Management of Nature-Based Tourism (3). Exploration of research methods and findings related to eco-tourism. Review of effective management strategies for controlling nature-based tourism operations.

HMG 6706 Environmental Management Systems for Tourism (3). An in-depth examination of the environmental cost of tourism development. The effective implementation of international models as well as environmental practices for sustainable tourism development will be studied.

HMG 6707 Travel and Tourism Data Analysis (3). Applies data science & analytics techniques to analyze tourist behavior, forecast demand, design travel packages, develop data-driven marketing strategies & identify factors influencing customers. Prerequisites: CAP 5768, CAP 5771, STA 6244. Corequisite: STA 6247.

HMG 6712 Tourism Planning and Regional Development (3). An in-depth examination of the process of identifying needs, objectives and strategies for tourism development. The formulation and evaluation of tourism policies and plans will be studied. Prerequisites: HFT 3713 or permission of the instructor.

HMG 6715 Problem Solving for Travel and Hospitality (3). Practical discussion and exploration of issues pertaining to the operation and management in the travel and hospitality industry. The course provides creative problem solving solutions utilizing today's information technologies.

HMG 6746 Cultural Behavior in Tourism (3). The course introduces the major cultural groups of overseas visitors to the U.S. and identifies the cultural differences in preferences for specific tourism products and services between these groups and the main stream of the U.S. population.

HMG 6747 Tourism Marketing Research Methods and Applications (3). The nature and characteristics of tourism research are presented, elements of tourism research process examined, and the importance and strategic application of research to tourism decision making highlighted.

HMG 6756 Convention and Meeting Management (3). Advanced study of planning, arranging, marketing, implementing, and managing conventions and meetings. Prerequisite: HFT 3503.

HMG 6816 The Production, Management, and Merchandising of Craft Beers (3). Technical and practical aspects of craft brewing and microbrewery technology. Relevant chemical, biological and physical processes will be examined. Aspects of the management of micro-breweries and brewpubs. Prerequisites: Must also take accompanying Lab. Minimum age 21.

HMG 6816L The Production, Management, and Merchandising of Craft Beers Lab (1). A hands-on overview of the scientific principles and techniques of craft brewing. A sampling of craft beers will be made from basic malt extract kits, partial mash recipes and all-grain techniques. Prerequisite: Minimum age 21.

HMG 6858 Advanced Catering Management and Research (3). This course focuses on research and examination of catering practices used in the catering profession. It includes an in-depth analysis of all components of the catering profession including management, legal aspects, catering contracts, menus and food displays, beverage service, catering equipment, catering logistics, human resources, etc.

HMG 6863 World of Wine and Food (3). An intensive study of wines from around the world and how they pair with foods. Guest chefs will prepare tapa size portions of food to be paired with local and specific wines. Prerequisite: 21 years old.

HMG 6872C Commercial Beverages of the World (3). An overview of basic aspects of production and serving a variety of beverages involved in hospitality commerce. This course will include presentations from industry procedures as well as tasting and evaluation of commercial products. Prerequisite: Students must be 21 years old.

HMG 6876 Emerging Topics in Food and Beverage (3). An in-depth study of current issues and topics confronting the food and beverage industry and how they impact future business practices. Management implications addressed.

HMG 6879 Components of Wines for Beverage Managers (3). Designed for beverage management students to learn some basic language and scientific concepts employed in wine making. The chemical structures, as well as the aromas and tastes of various specific components in wines will be investigated. These components will include those derived from the grape, the process of fermentation and storage, and will include common wine flaws. Prerequisite: Must be 21 years old.

HMG 6908 Directed Study in Tourism Studies (3). An opportunity for individuals interested in various aspects of planning, development, marketing, management and research in tourism to work on their own under the close supervision of an advisor. Prerequisites: Permission of the instructor and if the directed study is of a research nature, HMG 6586 is required.

HMG 6916 Hospitality Industry Research Project (3-9). Focuses on research methods of business oriented research projects dealing with current problems in the hospitality and tourism industry. Research proposal is the focus.

HMG 6932 Advanced Special Topics in Hospitality Management (0-9). Focus on current issues and advanced subjects related to the hospitality industry. Consent of faculty supervisor and Department Chairperson required. This course is repeatable.

HMG 6946 Graduate Internship (0-9). Structured hospitality practical training work experience involving training program and job rotations not previously performed. Ten week/300 hour minimum. Report and management project required. Prerequisites: Documented completion of 1000 hospitality related work hours of which

at least 500 hours must be completed while enrolled at FIU. Permission of the instructor.

HMG 6972 Hospitality and Tourism Thesis (1-3). Design and preparation of an original research investigation in the hospitality and tourism discipline. Prerequisites: STA 5206, STA 6166, and STA 6167 and permission of the instructor.

HMG 7252 Advanced Contemporary Issues in the Hospitality Industry (3). Explores the major emerging issues or problems that impact the domestic and global lodging industry. The students will learn to use content analysis and other methodologies to identify and analyze relevant industry problems and issues facing management and personnel in the lodging industry.

HMG 7909 Advanced Independent Study (3). With permission from the Associate Dean, students may engage in independent research projects and other approved phases of independent study. Prerequisite: Permission of the instructor.

Chaplin School of Hospitality and Tourism Management

Dean **Michael Cheng**
Vice Dean **Diann R. Newman**
Professor Emeritus and E.M. Statler Professor, Alumni Relations **Rocco M. Angelo**
Faculty Administrator, Director of Facilities Administration **Mohammed A. Qureshi**
Assistant Dean, Director of Online Learning **Joseph M. Cilli**

Faculty

Ahmad, Imran, Ph.D. *(Thammasat University), Research Assistant Professor, Food Processing and Safety*
Angelo, Rocco M., M.B.A. *(University of Miami), Professor Emeritus, E.M. Statler Professor, Alumni Relations*
Barker, Brian, M.A. *(DePaul University),* Endowed Chair, Diversity, Equity, and Inclusion
Beckman, Eric, Ph.D. *(University of Tennessee), Assistant Professor, Events and Economic Impact*
Buschman, John, Ph.D. *(Florida International University), Assistant Professor, Director of Assessments and Accreditation, Co-director Global Sustainable Tourism Program*
Cain, Lisa N., Ph.D. *(University of Nevada, Las Vegas), Associate Professor, Organizational Behavior, Marketing, Foodservice Management*
Chang, Howook "Sean", DBA *(Sejong University), Associate Professor, Strategic Management*
Cheng, Michael, Ph.D., CHE *(Iowa State University), Dean, Associate Professor, Hospitality Management, Culinology, Foodservice Management*
Cilli, Joseph M., M.S. *(University of Miami) Assistant Dean and Director of Online Learning, Associate Teaching Professor, Information Technology*
Cormany, Daniel, Ph.D. (*University of Nevada, Las Vegas*), *Assistant Professor, Event Management, Entertainment Management*
Dickinson, Clay B., M.S. *(Georgia Institute of Technology), Assistant Teaching Professor, Real Estate Development*
Dodge, Nathan, M.S. (Lynn University), *Associate Teaching Professor, Revenue Management, Leadership*
Feigenheimer, Joel, Ph.D., (*Northcentral University) Assistant Professor, Restaurant and Foodservice Management*
Gump, Barry, Ph.D. *(University of California, Los Angeles), Professor and Harvey R. Chaplin Eminent Scholar, Beverage Management*
Hampton, T. Mike, Ed.D. *(Florida International University*), *Professor, Marketing*
Hertz, Oren, Ph.D. (*Florida Atlantic University*), *Assistant Professor, Accounting and Financial Management*
Kitterlin, Miranda, Ph.D. *(University of Nevada, Las Vegas), Associate Professor and Coca-Cola Endowed Professor, Organizational Behavior*
Logan, Twila-Mae, Ph.D. *(Ohio State University), Associate Professor, Finance*
Lusby, Carolin, Ph.D. *(University of Florida), Associate Professor and Co-director Global Sustainable Tourism Program, Tourism Studies*
Moll, Steven V., M.S. *(Florida International University), Associate Professor and Vice Provost Emeritus, Lodging Operations*
Moncarz, Elisa, *Professor Emeritus*
Moreo, Andrew, Ph.D. *(University of Nevada, Las Vegas), Director of Research, Associate Professor, Foodservice Management*
Newman, Diann R., Ed.D. *(Nova Southeastern University), Vice Dean, Human Relations, Teambuilding*
Oh, Dongyun, Ph.D., CHE, KISA *(Kyunghee University), Assistant Professor, Hospitality Management, Entrepreneurship, Resort Development*
Qureshi, Mohammed A., M.P.A. *(Florida International University), Assistant Teaching Professor, Food Operations Management*
Scanlon, Nancy A., Ph.D. *(University of Delaware), Associate Professor, Facilities and Environmental Sustainability*
Tanke, Mary L., Ph.D. *(Purdue University), Associate Professor and Ernest R. Graham Distinguished Professor, Management*
Thomas, John H., J.D. *(University of Miami), Professor, Hospitality Law*
Zhao, Jinlin, Ph.D. *(Virginia Polytechnic Institute and State University), Professor and Director, Graduate Studies, Management*

Steven J. Green School of International and Public Affairs

Founding Dean **John F. Stack, Jr.**
Associate Dean, Graduate Studies and Innovation **Shlomi Dinar**
Associate Dean, Planning, Administration and Student Success **Jeffery Gonzalez**
Assistant Dean **Carleen Vincent Robinson**
Executive Director, Strategic Initiatives **Pedro D. Botta**

Launched in 2008, the Steven J. Green School of International and Public Affairs at FIU educates the leaders and changemakers of tomorrow through innovative teaching and research that advances global understanding, contributes to policy solutions and promotes international dialogue. The Green School enrolls more than 5,000 students and employs nearly 360 faculty. It offers 37 interdisciplinary degree programs at the bachelor's, master's and doctoral levels, as well as 62 undergraduate and graduate certificate programs. The Green School encompasses eight signature departments: Criminology and Criminal Justice, Economics, Global and Sociocultural Studies, History, Modern Languages, Politics and International Relations, Public Policy and Administration and Religious Studies. Home to 17 of the university's most prominent international centers, institutes and programs, the Green School is a member of the Association of Professional Schools of International Affairs (APSIA.)

Graduate Programs

The Green School has academic programs leading to Master's degrees in African & African Diaspora Studies, Asian studies, global and sociocultural studies, criminal justice, economics, global affairs, history, international studies, Latin American and Caribbean Studies, political science, public policy and administration, religious studies, and Spanish.

The Green School offers academic programs leading to the Ph.D. in global and sociocultural studies, economics, history, international crime and justice, international relations, political science, public affairs, and Spanish.

Master of Arts in Global Affairs

The Master of Arts in Global Affairs provides a two-year in-person or fully online (36 credits) skills based program enhanced by an interdisciplinary curriculum that will allow students to compete for and excel in employment opportunities in the global marketplace. The program is designed to provide students with the ability to understand and negotiate successfully across societies and borders. Students are trained for careers in the public and private sectors, international organizations, government agencies, non-governmental as well as not-for-profit organizations.

The Master of Arts in Global Affairs program offers separate tracks of study.

The Globalization and Security track explores the nexus between globalization and security recognizing that globalization has broadened and intensified the scale and character of modern-day security challenges. The track considers both traditional and geopolitical trends of security but likewise new and non-traditional security topics (e.g. transnational crime, natural disasters and environmental change, migration and refugee flows, and surveillance and health). The Global Risk and Corporate Responsibility track aims to train a cadre of future risk managers and corporate citizenship professionals to understand today's complex new business environment and can help develop corporate strategies to manage risks and build stakeholder relationships. Emphasizing corporate social responsibility, the program will provide students with the knowledge and the skills needed to craft strategies that promote socioeconomic development and safeguard the environment, while strengthening relationships with key stakeholders and enhancing shareholder wealth.

The International Development track readies students to apply data-based techniques of economics, buttressed with the understanding of relevant sociopolitical factors, to the analysis of practical problems and solutions in international economic development. In our globalized society, development aims to improve our understanding of the world's economically disadvantaged countries and regions, while addressing salient issues, such as poverty, marginalization and inequality. As such, the track will provide students with the needed skills and knowledge to engage and collaborate across various entities such as international organization, government, business, communities, and non-governmental organizations.

The International Crime & Justice track readies students to operate in the areas of domestic and international crime and justice issues. Graduates will be better equipped to understand and respond to transnational crime and justice problems, which continue to present formidable dilemmas in public policy, criminal justice and national security realms. Accordingly, the track will provide students with the needed skills and knowledge to engage and collaborate across various entities which have an interest in managing internationally relevant crime and justice matters.

The Cybersecurity and Technology Policy track combines technical and non-technical foundational courses necessary to understand cybersecurity, as well as emerging technologies and the broader policy implications in an increasingly interconnected world. The curriculum covers a wide-range of key topics and issues—from internet governance and cyberwarfare to critical infrastructure, data security and supply chain management. The program also includes courses in policy formation, computer sciences, law, ethics, business, and international relations to cultivate a holistic understanding of one the most important security trends in the 21st Century.

All Global Affairs students take the same core courses. Each track has its own set of specialty courses. One of the highlights of the program is a core Capstone course, whereby students work on a policy relevant research topic with a mentor from a government agency, corporation, not-for-profit, or international organization. In addition to the mentor, students are also teamed up with a FIU faculty supervisor with expertise on the topic. Non-credit professional development seminars (on topics such as career development, handling the media, conflict resolution, negotiation skills, leadership, grant writing, etc.)

also make up a part of the program. Finally, optional language instruction is also available through the Green School's Strategic Language Institute.

Admission Requirements

1. Baccalaureate degree from an accredited institution for higher education, or equivalent degree from a foreign institution.
2. 3.0 GPA in the last 60 upper division credits of undergraduate degree.
3. Two letters of recommendation (professional and academic recommendations only; at least one letter needs to be from a faculty member; a professional letter should come from a supervisor).
4. Curriculum Vitae.
5. A statement of purpose (750 words) describing the candidate's academic and professional background as well as proposed track of study and career aspirations.

In addition, foreign students must:
Official TOEFL scores (Note: unofficial scores will not be taken into consideration)
1. Paper and Pencil: 550
2. Internet-based: 80

The above admission requirements are minimums and not all students meeting them are assured admission. Students with a grade-point average below the above minimums may still apply and request a waiver of those scores. The student must provide a justification as to why the waiver should be approved.

Degree Requirements

The Master of Arts in Global Affairs program requires a total of 36 credits. Students take 18 credits of core courses. The remaining 18 credits are specialty courses associated with each track.

Core Courses: (18 credits)

ISS 6216	Foundations of Globalization	3
ECO 6025	Economic Policy Analysis for Global Governance	3
ISS 6307	Research Tools for Global Studies	3
ISS 6387	Analytical Writing and Presentation Skills	3
SYA 6655	Program Design and Evaluation	3
	or	
PAD 6306	Policy Analysis and Program Planning	3
ISS 6926	Capstone	3

Track 1: Globalization and Security (18 credits)

Specialty courses include (additional courses selected by the program administration may also be included):

DSC 6020	Terrorism and Homeland Security	3
GIS 5620	Surveillance, Intelligence, and International Relations	3
INR 6338	Seminar in Strategic Studies	3
CCJ 6676	Transnational Crime and National Security	3
INR 5012	Global Issues and Human Rights	3
INR 5352	Environment and Security	3
INR 5066	Global and Human Security	3
INR 5935	Topics in International Relations	3
REL 5149	Religion, Violence, and Conflict	3
ISS 6327	Global Security Risks and the Private Sector	3
ISS 6249	Migration, Security and Globalization	3
ISS 6219	International Law and Global Security	3
ISS 6132	Intelligence Community Successes and Failures: Policy Implications	3
ISS 6640	Global Financial Crimes	3

Track 2: Global Risk and Corporate Responsibility (18 credits)

Specialty courses include (additional courses selected by the program administration may also be included):

ISS 6259	Corporate Diplomacy	3
ISS 6246	Global Economy and Industrial Sustainability	3
ISS 6248	Public-Private Partnerships for Social Impact	3
ISS 6247	Social Enterprise and Grassroots Innovation	3
ISS 6409	Capstone Reporting	3
ISS 6327	Global Security Risks and the Private Sector	3

Track 3: International Development (18 Credits)

Specialty courses include (additional courses selected by the program administration may also be included):

ISS 6609	Quantitative Methods	3
ISS 6630	Markets, Governments and Public Policy	3
ISS 6615	International Development Policy	3
ISS 6610	Global Economy, Finance and Institutions	3
ISS 6275	Growth, Development, and Policy	3
ISS 6660	International Trade for Global Affairs	3

Track 4: International Crime & Justice —Online (18 credits)

Accelerated specialty courses include (additional courses selected by the program administration may also be included):

CCJ 6676	Transnational Crime and National Security	3
CCJ 6079	Geospatial Crime Analysis	3
CCJ 6040	Comparative Crime and Criminal Justice Systems	3
CCJ 6675	Applied Research in Human Rights & Rule of Law	3
CCJ 6620	Immigration and Crime	3
CCJ 6696	Human Trafficking	3
ISS 6640	Global Financial Crimes	3
DSC 6020	Terrorism and Homeland Security	3

Track 5: Cybersecurity and Technology Policy — Online (18 credits)

Specialty courses include (additional courses selected by the program administration may also be included):

CIS 5027	Computer Systems Fundamentals	3
ISS 5654	Foundations of Cybersecurity and Technology Policy	3
ISS 5656	Cyberspace and Globalization	3
ISS 6658	Cyber Warfare and Strategy	3
ISS 6655	Issues in Cybersecurity and Technology Policy	3
LAW 7707	Cybersecurity and Privacy Law	3

Internships

Global Affairs students are highly encouraged to secure an internship during the summer between year 1 and 2 of the program. The internship should be relevant to the track of study and may take place at a corporation, non-profit

organization, international institution, or government agency.

Graduation Requirements

In order to graduate, a student must earn a minimum grade of a C, maintain a 3.0 GPA and complete satisfactorily the prescribed curriculum.

Course Descriptions

Definition of Prefixes

ECO-Economics; ISS-Interdisciplinary Social Sciences; SYA-Sociological Analysis

ECO 6025 Economic Policy Analysis for Global Governance (3). Designed for MA students in the Global Governance program, the course provides training in applied microeconomic and policy analysis.

ISS 5127 Urbanization and Disaster Risk (3). Examines trends and characteristics of urbanization, taking cities as heterogeneous, dynamic, and complex spaces, with emphasis on risk construction and social vulnerabilities. Prerequisite: Graduate Standing.

ISS 5135 National Security Essentials (3). An examination of the U.S. national security structure, current security-related controversies and potential U.S. responses to security threats.

ISS 5267 Global Solutions to Sex Trafficking (3). Engage students in understanding and creating solutions to global sex trafficking using collaborative problem solving, policy analysis, and social innovation and entrepreneurship.

ISS 5388 Communicating Analytically (3). Improves analytic communications for government professionals, enhancing research and effective writing skills and developing briefing techniques.

ISS 5654 Foundations of Cybersecurity and Technology Policy (3). Provides a foundational understanding of the technical and non-technical considerations influencing global cybersecurity and technology policy.

ISS 5656 Cyberspace and Globalization (3). Provides an overview of how cybersecurity and the shifting technological landscape impact the world and the opportunities and challenges these changes, amplified by globalization, pose to security.

ISS 6111 Leadership Dynamics in Global Risk and Corporate Responsibility (3). Train students to lead organizations to thrive in a global economy, while providing the necessary leadership skills to enable students to make better decisions in Corporate Social Responsibility.

ISS 6126 Livelihoods Protection and Disaster Risk Reduction (3). Examines linkages between livelihoods protection and disaster risk reduction to reduce community vulnerabilities to natural to enhance hazard-sensitive livelihood strategies and interventions. Prerequisite: Graduate standing.

ISS 6128 Global Health Security (3). Covers the topic of global public health with a major emphasis on security, by recognizing the direct and indirect public health consequences of disasters, diseases and climate change.

ISS 6132 Intelligence Community Successes and Failures: Policy Implications (3). Reviews how historical United States Intelligence Community successes and failures shaped U.S foreign and domestic policy and examines current organizational structures.

ISS 6216 Foundations of Globalization (3). Advanced course to introduce students in the M.A. in Global Governance to the many nuances of globalization.

ISS 6219 International Law and Global Security (3). This course examines the relationship between international law and global security. Particular attention is paid to laws of war and international military intervention, international criminal law.

ISS 6245 The Politics of Conflict and Development (3). Prepares students to understand and analyze the politics of development in Asia, Africa, Eastern Europe, Latin America, the Middle East and North Africa.

ISS 6246 Global Economy and Industrial Sustainability (3). Development paradigms and international economic evolution paths are analyzed in light of sustainability and institutional citizenship frameworks.

ISS 6247 Social Enterprise and Grassroots Innovation (3). This course introduce students to the theory and practice of social enterprise and grassroots innovation and how to devise sustainable, market-driven solutions to pressing socioeconomic challenges.

ISS 6248 Public-Private Partnerships for Social Impact (3). This course examines how governments are partnering with for-profit and non-profit organizations to shape public policy and solve some of the world's most intractable social problems.

ISS 6249 Migration, Security and Globalization (3). Migratory flows associated with globalization, their benefits, effects and impact on security. It will examine the problems posed by new presences and the policies and practices that can resolve them.

ISS 6259 Corporate Diplomacy (3). Examine the role of governments, community stakeholders, multilateral organizations, international non-profit organizations, and multi-sector partnerships in promoting peace and social justice.

ISS 6266 Democracy and Human Rights: From Theory to Practice (3). Examines Democracy and Human Rights around the world, particularly in key countries such as Russia, China, Egypt and Cuba.

ISS 6275 Growth, Development, and Policy (3). Provides understanding as to why some countries are rich and others poor, and why some countries grow quickly and others slowly.

ISS 6307 Research Tools for Global Studies (3). Designed for MA students in the Global Governance program, the course provides qualitative and quantitative research methods in Global Studies. Prerequisite: Graduate standing.

ISS 6327 Global Security Risks and the Private Sector (3). This course will consider the nature of the contemporary risks facing firms operating in the global marketplace and what strategies can be implemented by the global companies to minimize vulnerability.

ISS 6384 Reputation and Crisis Management (3). Establish an understanding of mass communication principles and how they can be utilized to implement strategies and tactics related to reputation management and crisis communications.

ISS 6387 Analytical Writing and Presentation Skills (3). Designed for MA students in the Global Governance program, the course provides training in communication skills by applying appropriate strategies for different types of writing and presentation.

ISS 6409 Capstone Reporting (3). This course provides methods and tools to communicate objectives, results, challenges and recommendations of capstone projects as well as of social responsibility initiatives in general.

ISS 6658 Cyber Warfare and Strategy (3). Surveys current concepts and trends in cybersecurity strategy used during times of cyber conflict. Examines differences between offensive and defensive cyber capabilities and strategy development.

ISS 6660 International Trade for Global Affairs (3). Focuses on global economic integration and the institutions that regulate it.

ISS 6609 Quantitative Methods (3). Expands the focus on linear regression, causal inference, and provides an introduction to more advanced methods, such as time series, panel data and instrumental variables.

ISS 6610 Global Economy, Finance, and Institutions (3). Examines modern theory of macroeconomics in the context of the global economy, and applies it to gain an understanding of recent issues and policy responses.

ISS 6615 International Development Policy (3). Provides a broad introduction into the various policy-relevant aspects of the economics of international development.

ISS 6630 Markets, Governments and Public Policy (3). Surveys the field of Public Economics, which explores the rationales for and consequences of government intervention in markets.

ISS 6640 Global Financial Crimes (3). Provide a solid conceptual foundation of global financial crimes and understanding of the causes and reasons for global money laundering, terrorism, corruption, tax evasion and other financial crimes.

ISS 6650 US-Russian Relations and Their Impact on Global Security (3). Focus on the state of Europe both past and present, debate over enlargement of European institutions, challenges of the Russian relationship and other factors as its implicates on global security.

ISS 6655 Issues in Cybersecurity and Technology Policy (3). Examine key issues such as internet governance, supply chain management, critical infrastructure, cyber warfare and the weaponization of information

ISS 6690 Professionalization Seminar (0). Weekly seminar led by array of GSS faculty covering topics to aid in professionalization of future faculty and social researchers.

ISS 6917 Directed Research Project in Applied Interdisciplinary Social Science (1-9). Allows for a graduate student to design, complete, and present findings from an applied social science research project, under the direction of a faculty member.

ISS 6926 Capstone (3). This course is designed to allow students to apply the skills and methods acquired throughout the program to a significant policy-relevant case study or issue. Prerequisite: Graduate standing.

SYA 6655 Program Design and Evaluation (3). Designed for MA students in the Global Governance program, the course provides training in program design and evaluation. Prerequisite: Graduate standing.

Interdisciplinary Courses

The Green School has several interdisciplinary programs which are not based in a specific academic department. The courses offered by these programs, therefore, are not found in the departmental listings in the Catalogs, but are included here.

LBS 5155 Workplace Diversity (3). Students examine theoretical debates surrounding workforce participation of women and minorities; historical position of these groups in labor force; social phenomena that contribute to discriminatory practices and development of policies to eliminate discriminatory practices.

LBS 5215 Women in the Workplace (3). Students explore women's changing role in the U.S. and global economy. Special attention is given to the role of race, class, and ethnicity within the context of gender and work.

LBS 5406 Collective Bargaining and Labor Relations (3). A comprehensive study of major issues and themes in American collective bargaining. Includes origins of collective bargaining, labor law, unionization, contract negotiation, patterns in contract content, impact of external laws, public sector unions, grievance arbitration and interest arbitration. Prerequisite: Permission of Instructor.

LBS 5464 Labor Arbitration (3). Study of labor dispute resolution with emphasis on grievances, fact-finding, and arbitration.

LBS 5465 Mediation Techniques (3). Examines the role of mediation in resolving civil, commercial, family, public, and workplace disputes. Incorporates mediation principles and skills, different approaches to mediation, and current research in mediation. Prerequisite: Permission of Instructor.

LBS 5466 Family Mediation (3). Provides a comprehensive understanding of conflict resolution, power and balances, emotional and psychological issues, negotiation techniques as well as the development of practical skills in the field of family mediation. Prerequisite: Permission of Instructor.

LBS 5467 Civil Mediation (3). A comprehensive understanding of the field of civil mediation as well as the development of the practical skills to be a civil mediator. Prerequisite: Permission of Instructor.

LBS 5485 Fundamentals of Conflict Resolution (3). Survey of the major contemporary theories of organizational functioning and the management of conflict within and among organizations in a globalized world. Theories that center primarily within the fields of dispute

resolution, sociology, and social interaction/ group theory will be emphasized. Prerequisite: Permission of Instructor.

LBS 5486 The Dynamics of Conflict Management (3). Investigate conflict and violence, and help students to develop strategies to defuse them in the classroom.

LBS 5488 Organizational Conflict and Dispute Resolution Systems (3). Examines the causes, consequences, and cost of organizational conflict and the dispute resolution systems organizations use to resolve conflict.

LBS 5507 Labor and Employment Law (3). Familiarizes the student with the legal issues and rules regarding unionization of employees, the collective bargaining process, the relationship between the employee and his/her union, and the administration of collective bargaining agreements. Examines the legal framework within which collective bargaining occurs and also familiarizes students with additional issues of rights in employment. Prerequisite: Permission of Instructor.

LBS 5658 Labor Movements and Economic Development (3). Relationships between union and economic development strategies in developing/recently developed countries; emphasis on social movement unionism and unions in Latin America and Asia. Prerequisite: Permission of Instructor.

LBS 5930 Topics in Labor Studies (1-3). Selected topics or themes in Labor Studies. Themes will vary from semester to semester. With a change in content, course may be repeated. May include field work. Prerequisite: Graduate standing.

LBS 5931 Topics in the Philosophy and Methods of Conflict Resolution (3). Provides an examination of the philosophy, methods, and research in the field of conflict resolution. The particular content and orientation of the course may vary according to the particular focus examined. Prerequisite: Permission of Instructor.

LBS 6906 Directed Individual Study (3). Specialized intensive study in areas of interest to student. Student plans and carries out independent study project under the direction of faculty member. Topics must relate to content of Labor Studies or ADR. Prerequisite: Permission of instructor.

LBS 6945 Internship Labor Studies/Alternative Dispute Resolutions (3). Practical training and experience in organization according to students needs and interests. Reports and papers required. Prerequisite: Permission of instructor.

African and African Diaspora Studies

Valerie L. Patterson, *Clinical Professor, Public Policy and Administration; Director, African and African Diaspora Studies*
Iqbal S. Akhtar, *Associate Professor, Religious Studies*
Rokeshia Ashley, *Assistant Professor, Communication*
Pascale Bécel, *Associate Professor and Chair, Modern Languages*
Isaac Burt, *Associate Professor of Counselor Education*
Jean-Robert Cadély, *Associate Professor, Modern Languages and African and African Diaspora Studies*
Agatha Caraballo, *Associate Teaching Professor, Public Policy & Administration*
Mitzi Carter, *Assistant Teaching Professor, Global and Sociocultural Studies, Interim Director, Global Indigenous Forum*
Phillip Carter, *Associate Professor, English and Linguistics; Director, Center for the Humanities in an Urban Environment*
Shawn Christian, *Associate Professor, English*
John F. Clark, *Professor, Politics and International Relations*
Alexandra Cornelius, *Associate Teaching Professor; Director, Center for Women's and Gender Studies*
Jenna M. Gibbs, *Associate Professor, History*
Percy C. Hintzen, *Professor, Global and Sociocultural Studies.*
Tometro Hopkins, *Associate Professor, English*
Sheronda Leger, *Assistant Professor, English*
Keisha McIntyre-McCullough, *Clinical Assistant Professor, Teaching and Learning; English Education Program Leader; MSCI Program Leader*
Assefa Melesse, *Associate Professor, Earth and Environment*
Roderick Paul Neumann, *Professor, Global and Sociocultural Studies*
J. Janewa Osei-Tutu, *Associate Professor, Law*
Ulrich Oslender, *Associate Professor, Global and Sociocultural Studies*
Okezi T. Otovo, *Associate Professor, History and African and African Diaspora Studies, History*
Vrushali B. Patil, *Associate Professor, Global and Sociocultural Studies and Women's and Gender Studies; Chairperson, Global and Sociocultural Studies*
Tudor Parfitt, *SIPA Distinguished Professor and President Yitzhak Navon Professor of Sephardic and Mizrahi Studies, Religious Studies*
Andrea J. Queeley, *Associate Professor, African and African Diaspora Studies and Global and Sociocultural Studies; Graduate Program Director, African & African Diaspora Studies*
Jean Muteba Rahier, *Professor, Global and Sociocultural Studies and African and African Diaspora Studies*
Maria Reid, *Assistant Teaching Professor, Psychology*
David Rifkind, *Associate Professor, Architecture*
Heather Russell, *Professor, English; Vice Provost for Faculty Leadership and Success*
Derrick Scott, *Assistant Teaching Professor, Global and Sociocultural Studies*
Vicky Silvera, *Head, Special Collection, Library*
Juan Torres-Pou, *Professor, Modern Languages*
Chantalle F. Verna, *Associate Professor, History and Politics and International Relations*
Carleen Vincent-Robinson, *Assistant Dean, Steven J. Green School of International and Public Affairs Teaching Professor, Criminology & Criminal Justice*
Donna Weir-Soley, *Associate Professor, English*
Kirsten E. Wood, *Associate Professor, History*
Albert Kafui Wuaku, *Associate Professor and Graduate Program Director, Religious Studies*

Master of Arts in African & African Diaspora Studies

The M.A. degree in African & African Diaspora Studies provides interdisciplinary, graduate level education and prepares students to develop and employ theoretical, analytical, and methodological approaches the research of critical issues pertaining to African America, Africa and its diasporas. The objective of the M.A. program is to prepare scholars for professional positions in a range of fields and for further study at the Ph.D. level. The M.A. degree can be taken either on-site or online. Multidisciplinary in scope and diverse in approach, the M.A. program in AADS is ideal for candidates interested in a wide array of subjects pertaining to African America, continental Africa and the African diaspora. These include: Social and Public Policy, Cultural Studies, International Relations, Gender and Sexuality Studies, Literary Study, History, Globalization Studies, Education, Religious Studies, Trans-Atlantic Studies, Critical Race Studies, Sociology, and Anthropology. AADS offers both a terminal M.A. and four combined M.A./Ph.D. programs in partnership with International Relations, Atlantic History, Political Science, and Global & Sociocultural Studies. These attract students from around the world interested in subjects that are geographically and disciplinarily diverse, including but by no means limited to: transnational policy analysis; African, African American and Caribbean history and culture; African environmental politics; transnational migrations; African and African diaspora nationalist struggles, and the Asian diasporas in Africa and the Caribbean. Our focus on African diaspora cultural studies facilitates research in Gender and Sexuality, Literatures, Popular Culture, and Religious syncretism. FIU's strong connections with Latin America and the Caribbean make it an ideal place to study Afro-Latin cultures, with a focus on these two regions. The M.A. degree prepares graduates for further study at the Ph.D. level, as well as for professional positions in the public, private, non-profit and international arenas and for employment in education, public policy, public administration, journalism, international organization and other fields.

The MA in African & African Diaspora Studies is cohort-based and only admits students to begin their studies in the fall semester. It is a one-year degree to be completed over three terms: fall, spring, and summer C. The full curriculum comprises 30 credits. Students are expected to enroll in 10 credits of course work per semester, which includes enrollment in the AADS Graduate Colloquium (AFA 6920) each semester for 1 credit. For this 1 credit course, students will work under the supervision of an AADS faculty member to develop and complete the research paper, proposal or report that fulfills the exit requirement.

Admission Requirements

Each applicant to the African & African Diaspora Studies Graduate Program (AADS) must complete an online graduate application form and arrange to send transcripts of all prior undergraduate and graduate work and official reports of the TOEFL (if applicable) to the FIU's Office of Graduate Admissions. Each applicant should also send a separate statement of purpose to the director of the AADS Graduate Programs, along with copies of the above material, a resume, and writing sample. The statement of purpose should express the applicant's academic and professional objectives as well as specific interest in African & African Diaspora Studies. Applicants are strongly encouraged to include examples of academic or other relevant professional work that may support their application. Applicants must request three letters of recommendation from professors able to comment on their academic ability. The letters of recommendation should be sent directly to the Director of the African & African Diaspora Studies Graduate Programs.

The application file must be complete before the African & African Diaspora Studies Graduate Committee will consider the applicant for admission. For the admissions deadline please go to **http://africana.fiu.edu/academics/admissions/**. To be admitted into the AADS M.A. program a student must meet the University's graduate admission requirements (which can be found in Florida International University's Graduate Catalog), and the following minimum standards:

1. Applicants must have a baccalaureate degree from an accredited college or university.
2. Applicants must have an undergraduate grade point average (GPA) of 3.0 or higher. Applicants must submit grade transcripts for consideration. The student must also have a GPA of 3.5 on any previous graduate work.
3. Applicants should request that three letters of recommendation from individuals able to judge their academic potential be sent directly to the Director of the African & African Diaspora Studies Graduate Programs. For the exact street address, please consult our website at http://africana.fiu.edu.
4. Applicants are encouraged to submit examples of written work and other supporting materials.
5. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Financial Aid

Each academic year a limited number of graduate students are hired as graduate assistants. Graduate assistantships are allocated on a competitive basis and typically pay a substantial portion of tuition expenses and provide a stipend. To be considered for an assistantship the applicant must make such a request in writing to the Director of AADS Graduate Programs. The Director of the AADS Graduate Programs will make the awarding of teaching assistantships in consultation with the AADS Director. Students receiving an assistantship are required to perform approximately (but not more than) 20 hours of teaching and research related duties per week and are required to participate in a one-hour seminar related to teaching at the beginning of their first semester.

Graduation Requirements

Candidates must obtain a grade of “B” or higher in all courses and achieve a cumulative point average of at least 3.0 (based on a 4.0 scale) and present a satisfactory research paper, proposal or report with scholarly citation styles admitted in the discipline. The selection of the citation style must be made with the research paper/proposal/report advisor. The FIU faculty eligible to serve on a research paper/proposal/report committee are the faculty members who have achieved graduate faculty standing as established by the University Graduate School. Other FIU faculty not identified in that list may be considered to serve on a committee (but not as chairperson of that committee) based on research, identified interest, and publications after approval from the AADS Graduate Programs Director.

Research Paper/Proposal Option

To fulfill this requirement, the student must compile a portfolio of their most representative work, along with a reflection on each paper of how each paper relates to AADS methods and theories. The portfolio should reflect their academic work and interests. Students will work with the Graduate Program Director and/or faculty mentor to develop their portfolio over the fall and spring semesters. Students will complete the portfolio and are required to give an oral presentation (oral defense) of their portfolio to AADS faculty as a requirement for successful completion of AFA 6911.

The FIU faculty eligible to evaluate the oral presentation are the faculty members who have achieved graduate faculty standing as established by the University Graduate School and are core or affiliated faculty in AADS. Other FIU faculty not identified in that list may be considered to serve on a committee (but not as chairperson of that committee) based on research, identified interest, and publications after approval from the Director of AADS Graduate Programs.

The MA in African & African Diaspora Studies is cohort-based and only admits students to begin their studies in the fall semester. The MA in AADS curriculum unfolds over three terms: fall, spring, and summer C. The full curriculum comprises 30 credits. To graduate on time, students are expected to enroll in courses for 10 credits every term. During the AFA 6920 sessions (AADS Graduate Colloquium; three times 1 credit), enrolled students work closely with the AADS faculty mentor and/or Graduate Program Director to prepare their exit requirement (Portfolio). Students will be assigned such as faculty mentor by the AADS Graduate Program Director (GPD) upon admission. Students may request to work with a specific AADS faculty member. Such selection must be requested by the third week of the fall semester. Before placing such request to the AADS GPD, a student must approach and get the approval of the chosen AADS faculty member. That AADS faculty member will serve as the chairperson of the student’s research paper/proposal or internship report committee.

Required Credits

Total: 30 credit hours

Term 1 (Fall)

AFA 5005	African and African Diaspora Studies Theory	3
AFA 5855	Research Methods and Scholarly Writing in Africana Studies	3
One Elective from the list of Humanities or Social Sciences		3
AFA 6920	African and African Diaspora Studies Graduate Colloquium	1

Term 2 (Spring)

One Elective from the list of Humanities or Social Sciences		3
One Elective from the list of Humanities or Social Sciences		3
One Elective from the list of Humanities or Social Sciences		3
AFA 6920	African and African Diaspora Studies Graduate Colloquium	1

Term 3 (Summer C)

One Elective from the list of Humanities or Social Sciences		3
One Elective from the list of Humanities or Social Sciences		3
AFA 6911	Research Paper/ Proposal Writing in African and African Diaspora Studies	3
AFA 6920	African and African Diaspora Studies Graduate Colloquium	1

Language Requirement

Students will be asked to demonstrate proficiency in a language other than English according to the nature of their research paper/proposal and professional interests. Credit hours earned in meeting language requirement will not count toward the 30 credit hours required for the degree.

List of Electives I: The Humanities which includes history of art, classics, history, literature, performing arts, philosophy, theology, and even anthropology.

Students must choose at least 6 from the list below

With approval of the Graduate Director, students may also select other courses not listed below after submitting the appropriate syllabus.

AFA 5932	Special Topics in African and African Diaspora Studies
AFA 5107	Teaching the African American Experience
AFA 5341	Health Issues in the African World
AFA 5600	National and Transnational Policy Analysis: The African Diaspora
AFA 6851	Advanced Seminar in African and African Diaspora Studies
AFH 5905	Readings in African History
AFH 5935	Topics in African History
FRE 5508	La Francophonie
HAI 5235	Haitian Creole Seminar
LIN 6602	Language Contact
LIT 5359	African Diaspora Women Writers
LIT 5358	Black Literature and Literacy/Cultural Theory
MUH 5025	History of Popular Music in the United States
MUH 5067	Music of the Caribbean
RLG 5122	African American Religion
RLG 5372	The Globalizing of African Spirituality
RLG 5384	Rasta, Vodou, Santeria
RLG 5488	Theology and Liberation Movements
SPN 5536	Afro-Cuban Culture
SPN 5539	Special Topics in Afro-Hispanic Culture
SPW 5776	Black Literature in Latin America
SPW 6368	19th Century Spanish-Caribbean Narrative
WOH 5236	The Transatlantic Slave Trade and the Making of the African Diaspora, 1441-1807
WOH 5237	The African Diaspora Since the End Of the Slave Trade

List of Electives II: The Social Sciences which includes anthropology; business and management; economics; education; human geography; law; linguistics; media studies; political science and international relations; psychology; social policy and sociology.

Students must choose at least 6 from the list below

ANG 6473	Diasporas, Migration, and Globalization
ANG 5397	Advanced African Diaspora Cultures and Performativity
ANG 5396	Representations of Africa and Africans in Films
ANT 6319	The African Diaspora: Anthropological Perspectives
CPO 5325	Politics of the Caribbean
CPO 6350	Seminar in Brazilian Politics
CPO 6376	Seminar in Central American Politics
CPO 6206	Seminar in African Politics
CYP 6766	The Psychology of Crosscultural Sensitization in a Multicultural Context
ECS 5406	Latin American Economies
ECS 6436	The Economics of Caribbean Migration
ECS 7435	Economics of the Caribbean
INR 5087	Ethnicity and the Politics of Development
INR 5255	Seminar in African Development
INR 6936	Seminar in Inter-American Politics
SYD 6705	Comparative Analysis of Ethnicity and Race

Accelerated (4+1) BA in Women and Gender Studies/ MA in African and African Diaspora Studies

Please see Center for Gender and Women's Study Undergraduate Programs page 232.

MA in African and African Diaspora Studies

Required Credits
Total: 30 credit hours
Term 1 (Fall)

AFA 5005	African and African Diaspora Studies Theory	3
AFA 5855	Research Methods and Scholarly Writing in Africana Studies	3
One Elective from the list of Humanities or Social Sciences		3
AFA 6920	African and African Diaspora Studies Graduate Colloquium	1

Term 2 (Spring)

One Elective from the list of Humanities or Social Sciences		3
One Elective from the list of Humanities or Social Sciences		3
One Elective from the list of Humanities or Social Sciences		3
AFA 6920	African and African Diaspora Studies Graduate Colloquium	1

Term 3 (Summer C)

One Elective from the list of Humanities or Social Sciences		3
One Elective from the list of Humanities or Social Sciences		3
AFA 6911	Research Paper / Proposal Writing in African and African Diaspora Studies	3
AFA 6920	African and African Diaspora Studies Graduate Colloquium	1

Language Requirement

Students will be asked to demonstrate proficiency in a language other than English according to the nature of their research paper/proposal and professional interests. Credit hours earned in meeting language requirement will not count toward the 30 credit hours required for the degree.

List of Electives I: The Humanities which includes history of art, classics, history, literature, performing arts, philosophy, theology and even anthropology.

Students must choose at least 6 credits from the list below

With approval of the Graduate Director, students may also select other courses not listed below after submitting the appropriate syllabus.

AFA 5932	Special Topics in African and African Diaspora Studies
AFA 5107	Teaching the African American Experience
AFA 5341	Health Issues in the African World
AFA 5600	National and Transnational Policy Analysis: The African Diaspora
AFA 6851	Advanced Seminar in African and African Diaspora Studies
AFH 5905	Readings in African History
AFH 5935	Topics in African History
FRE 5508	La Francophonie
HAI 5235	Haitian Creole Seminar
LIN 6602	Language Contact
LIT 5359	African Diaspora Women Writers
LIT 5358	Black Literature and Literacy/Cultural Theory
MUH 5025	History of Popular Music in the United States
MUH 5067	Music of the Caribbean
RLG 5122	African American Religion
RLG 5372	The Globalizing of African Spirituality
RLG 5384	Rasta, Vodou, Santeria
RLG 5488	Theology and Liberation Movements
SPN 5536	Afro-Cuban Culture
SPN 5539	Special Topics in Afro-Hispanic Culture
SPW 5776	Black Literature in Latin America
SPW 6368	19th Century Spanish-Caribbean Narrative
WOH 5236	The Transatlantic Slave Trade and the Making of the African Diaspora, 1441-1807
WHO 5237	The African Diaspora Since the End Of the Slave Trade

List of Electives II: The Social Sciences which includes anthropology; business and management; economics; education; human geography; law; linguistics; media studies; political science and international relations; psychology; social policy and sociology.

Students must choose at least 6 credits from the list below

ANG 6473	Diasporas, Migration, and Globalization
ANG 5397	Advanced African Diaspora Cultures and Performativity
ANG 5396	Representations of Africa and Africans in Films
ANT 6319	The African Diaspora: Anthropological Perspectives
CPO 5325	Politics of the Caribbean
CPO 6350	Seminar in Brazilian Politics
CPO 6376	Seminar in Central American Politics
CPO 6206	Seminar in African Politics
CYP 6766	The Psychology of Crosscultural Sensitization in a Multicultural Context
ECS 5406	Latin American Economies
ECS 6436	The Economics of Caribbean Migration
ECS 7435	Economics of the Caribbean
INR 5087	Ethnicity and the Politics of Development
INR 5255	Seminar in African Development
INR 6936	Seminar in Inter-American Politics
SYD 6705	Comparative Analysis of Ethnicity and Race

M.A. in African & African Diaspora Studies/Ph.D. in Global and Sociocultural Studies Combined Degree Pathway

The combined African & African Diaspora Studies MA/Global & Sociocultural Studies PhD pathway allows qualified graduate students to develop an expertise in African & African Diaspora Studies by earning an MA in AADS while progressing toward a PhD in one of the three major areas in the Global and Sociocultural Studies Department geography, sociology, or anthropology.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores;
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL)

or for the International English Language Testing System (IELTS). A total score of 80 on the internet-based TOEFL (equivalent to 550 on the paper-based version) or a 6.5 overall on the IELTS is required.

Admission Procedure

To be accepted into this program, students must submit an application to the PhD in Global and Sociocultural Studies with a sub-plan for a MA in African & African Diaspora Studies. This designation will appear in the menu of programs in the graduate application. To be accepted into this program, students must submit an application by **January 1** in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the on-line application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable;
5. Statement of purpose explaining his/her interest for enrolling in both the AADS MA program and in the PhD program in GSS. The statement of purpose must clearly address the applicant's academic and professional objectives for enrolling in both fields of inquiry. The statement of purpose must also indicate the intended major (anthropology, geography, or sociology) the applicant plans to select while engaged in the PhD in GSS;
6. Three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability;
7. A curriculum vitae; and
8. Writing samples and other relevant professional work that may support their applications.

Degree Requirements for M.A. in African & African Diaspora Studies

This 30-credit, one year, three-semester program occurring over the Fall, Spring, and Summer includes 9 credits of core AADS courses, which includes 3 credits for the directed research paper exit option, 9 credits of core Global and Sociocultural Studies courses, and 12 credits of electives. There is also a Foreign Language Requirement.

MA in AADS Core (9 credits)

AFA 5005	African & African Diaspora Studies Theory	3
AFA 5855	Research Methods in African and African Diaspora Studies	3
AFA 6920	African & African Diaspora Studies Graduate Colloquium (3 credits- 1 credit over three semesters)	

Combined MA in AADS/PhD in Global and Sociocultural Studies Core

SYA 6127	Theory and Inquiry	3
ANG 5093	Research Methods	3

MA in AADS Elective (15 credits)

Nine credits of elective courses with an AADS focus must be from the Global and Sociocultural Studies Department. Six credits may be from outside of the Department but within the Green School and/or the College of Arts & Sciences. Students wishing to take courses outside of the Green School and the College of Arts & Sciences must seek prior approval.

Note: Students are advised to take at least 9 of these elective credits in their chosen major discipline for GSS (anthropology, geography, or sociology).

MA in AADS Research Proposal option

To graduate from the MA in AADS, students enrolled in this combined MA/PhD pathway must elect to complete either a research proposal or research paper for their exit option. Those who elect to write a research proposal must take AFA 6911 Research Paper/Proposal Writing in African and African Diaspora Studies.

MA in AADS Language Requirement

Students must demonstrate proficiency in a language other than English according to the nature of their thesis or research paper/proposal and professional interests.

Application for Graduation from MA in AADS

Students should apply for graduation for the MA in AADS during the summer term if they are on track for completing all requirements for the degree — including the exit option. Ordinarily, the MA will be conferred before the student advances to candidacy for the PhD in Global and Sociocultural Studies.

Matriculation to PhD in GSS

All students must undergo a successful M.A. review upon completion of the AADS Masters Program requirements in order to continue toward the Ph.D. in GSS. The GSS Graduate Committee, along with an appointee from AADS, conducts these reviews. The purpose of the M.A. review is to determine the ability of the student to do Ph.D. level work with the department's faculty. Among the information considered during the review are students' performances and grades in courses, and faculty recommendations.

Degree Requirements for Ph.D. in Global and Sociocultural Studies

The doctorate in Global and Sociocultural Studies requires a minimum of 75 credits beyond the baccalaureate including a dissertation based on original research. 30 credits of the MA in AADS will count toward the 75-credit minimum. Thus, a minimum of 45 credits must be earned beyond the MA.

Major Courses (33 credits)

All doctoral students will choose a major in Anthropology, Geography, or Sociology. The following distribution of coursework is required.

a). Major theory (3)
b). Major methods (3)
c). Major course electives (6 minimum)
d). Exam and dissertation credits and GSS and non-GSS Department electives
- Doctoral Exam Preparation (6 maximum)
- Doctoral Dissertation (15 minimum)

General Electives (12 credits)

GSS and non-GSS Department electives

Ph.D. General Examination

After successfully completing the common core requirements, the major's course requirements, and electives, a student prepares for the Ph.D. General Exam by enrolling in a maximum of six credits of exam preparation for their major. In preparation for the exam, a student forms a dissertation committee according to the regulations published on the University Graduate School web page (**http://gradschool.fiu.edu**). The Ph.D. General Exam addresses the student's anticipated dissertation topic, and is conducted according to the University Graduate School Policies and Procedures Manual and the Department's Ph.D. General Exam guidelines.

The Dissertation Proposal and Defense/Candidacy Exam

After passing the Ph.D. General Exam, a student works under the guidance of the dissertation committee to prepare a dissertation proposal and defend it orally before the committee. The chair of the dissertation committee must hold Dissertation Advisor Status from the University Graduate School. The proposal defense serves as the doctoral candidacy exam for the Ph.D. program in Global and Sociocultural Studies. Upon passing the proposal defense, a student is admitted to candidacy status.

The Dissertation and Dissertation Defense

After successfully defending a dissertation proposal, a student conducts the proposed research and completes a dissertation under the guidance of a dissertation committee. Only after successfully defending the dissertation proposal may a student register for dissertation hours (ANG 7980, GEO 7980, or SYA 7980). The Ph.D. program requires a student to be continuously enrolled in a minimum of 3 hours of Doctoral Dissertation each semester from the time of advancement to candidacy until completion of the dissertation, including summers. Upon completion of the dissertation manuscript and authorization by the committee, a student defends the dissertation before the committee and the University community. The University Graduate School's regulations governing the dissertation are described at **http://gradschool.fiu.edu**.

MA in African & African Diaspora Studies/Ph.D. in History Combined Degree Pathway

The Combined African & African Diaspora Studies MA / Ph.D. in History pathway allows qualified graduate students to complete the MA in African & African Diaspora Studies (MA in AADS) en route to the Ph.D. in History. This PATHWAY will train doctoral students within the discipline of Atlantic History while giving them area studies expertise in African & African Diaspora Studies In combination, these two programs provide a beneficial synthesis for interdisciplinary approaches to both the Atlantic world and the African diasporic experience.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.0 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.25 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores;
4. International graduate student applicants whose native language is not English and have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the IBT TOEFL (equivalent to 575 on the paper-based version of the Test of English as a Foreign Language) is required.

Admission Procedure

To be accepted into this pathway, students must submit an application to the PhD in History with a sub plan for a MA in African & African Diaspora Studies. This designation will appear in the menu of programs in the graduate application. Applicants should prepare all application materials in time for the Department of History and the Office of Graduate Admissions to receive them no later than **December 1** for the following year's fall admissions. Applicants will be notified of the Department's recommendation regarding their application no later than March 15.

The following documents must be submitted as part of the application. They will be reviewed by the Admissions Committee from both units.

1. Official transcripts of all prior college-level work (undergraduate Bachelor's degree and any graduate transcripts);
2. Official GRE scores or equivalent;
3. Official TOEFL scores, if applicable;
4. A curriculum vita;
5. A detailed statement of research interests, reasons for seeking the MA/ PhD, future career goals, a summary of scholarly and extra-curricular activities, and the names of History Department faculty members who would be appropriate dissertation advisors (Note: Consult the department website for information about faculty members)
6. A writing sample (such as a seminar paper) which demonstrates the ability to conduct research and write effectively; and
7. Three letters of reference from academic sources or others able to judge academic abilities and potential.

In addition, an interview (in person or phone) with members of the MA in AADS Program and/or appropriate faculty in the Department of History is highly recommended.

MA in African & African Diaspora Studies (MA in AADS)

This 30-credit, one year, three-semester program occurring over the Fall, Spring, and Summer includes 9 credits of core AADS courses, which includes 3 credits for the directed research paper exit option, 9 credits core History courses, and 12 credits of electives. There is also a Foreign Language Requirement.

MA in AADS Core Courses: (9 credits)

AFA 5005	African and African Diaspora Studies Theory	3
AFA 5855	Research Methods in African and African Diaspora Studies	3
AFA 6920	AADS graduate colloquium (3 credits- 1 credit over three semesters)	

Combined MA in AADS/PhD in History Core Courses: (9 credits)

HIS 6059	Historical Methods	3

6 credits in any of the following courses, or any other graduate History courses with an AADS focus.

AFA 6851	Advanced Seminar in African and African Diaspora Studies
AFH 5905	Readings in Asian History
AFH 5935	Topics in African History
AFH 6915	Research in African History
AFH 6932	Research Seminar in African History I
AFH 6933	Research Seminar in African History II
WOH 5236	The Transatlantic Slave Trade and the Making of African Diaspora, 1441-1807
WOH 5237	The African Diaspora Since the End of the Slave Trade

MA in AADS Elective (12 credits)

12 credits of elective courses with an AADS focus, at least 6 credits of which are from within the Department of History (making a total of 15 History credits) such as those on the following list:

AFA 6851	Advanced Seminar in African and African Diaspora Studies
AFH 5905	Readings in African History
AFH 5935	Topics in African History
AFH 6915	Research in African History
AFH 6932	Research Seminar in African History I
AFH 6933	Research Seminar in African History II
WOH 5236	The Transatlantic Slave Trade and the Making of African Diaspora, 1441-1807
WOH 5237	The African Diaspora Since the End of the Slave Trade

Students wishing to take courses outside of the Green School and/or the College of Arts & Sciences must seek prior approval from the Graduate Program Directors of the MA and PhD programs.

MA in AADS Research Proposal Option

To graduate from the MA in AADS, students enrolled in this combined MA/PhD program must elect the research proposal option and take the proposal writing course AFA 6911 Research Paper/Proposal Writing in African and African Diaspora Studies.

MA in AADS Language Requirement

Students must demonstrate proficiency in a language other than English according to the nature of their thesis or research paper/proposal and professional interests.

Application for Graduation from MA in AADS

Students should apply for graduation for the MA in AADS during the summer term if they are on track for completing all requirements for the degree – including the exit option. Ordinarily, the MA will be conferred before the student advances to candidacy for the PhD in History.

Ph.D. in History

Students will begin study toward the Ph.D. in History immediately following their satisfactory completion of MA in AADS degree requirements. Students are expected to meet all the degree requirements for the Ph.D. in History, which requires a total of 75 credits.

Courses required ***in addition to*** the degree requirements for the MA in African & African Diaspora Studies (minimum 45 credits)

HIS 6906	Advanced Readings in Atlantic Civilization	3
HIS 6918	Research in Atlantic Civilization	3

6 credits outside of AADS and Atlantic Civilization (also excluding Methods), 3 credits of which must be in a comparative course (HIS or WOH prefix)

Electives		18
HIS 7890	Dissertation	15

Language Requirements

All students must acquire reading competence in two languages other than English. The language requirement may be fulfilled in one of two ways: 1) achieving a High Pass on the department examination in one language, and at least a Pass on the second; or 2) achieving a Pass or High Pass in departmental examination in one language, and competency in social science quantitative skills, demonstrated by receiving a grade of “B” or “B+”, for Pass, and “A” or “A-“, for High pass, in an appropriate course approved for this purpose by the Graduate Program Director. At least one High Pass must be received. Language requirements vary, according to the concentration fields. In cases where the dissertation will be in the history of US or English-speaking countries, one language plus the quantitative skill is sufficient. In Latin American history, either Spanish or Portuguese, and a second language appropriate to the student’s field are required. Language exams will be graded on a High Pass, Pass, and Fail basis; a High pass is required in the student’s primary language. Students should check with the Department’s Graduate Program Director to determine which languages are appropriate for their program of studies.

Comprehensive Examinations and the Dissertation

Following completion of all course work, satisfaction of language requirements, and the constitution of a dissertation committee, students will be required to pass a written and an oral comprehensive examination. After the completion of their comprehensive examinations and the approval of a dissertation proposal by their dissertation committee, students will write a doctoral dissertation. The time needed for the research and writing of dissertations in History is variable, although doctoral candidates normally spend one year engaged in continuous field research and a second year in full-time writing.

Restrictions

1. The grade of “B” or better is required for graduate credit.

2. At the end of the second semester of residence, or upon completion of the first 18 credit-hours of work, the Graduate Committee will examine and evaluate the student's progress and prospects. Professors will provide detailed written evaluations of the work of all first-year Ph.D. students they have taught. Students whose progress is deemed insufficient will be advised to withdraw from the program.
3. No more than 6 semester-hours of Topics (5935) courses toward meeting the degree requirements, without permission of the Graduate Program Director.
4. No more than 6 semester-hours of HIS 5908 (Independent Study) toward meeting the degree requirements, without permission of the Graduate Program Director.

M.A. in African & African Diaspora Studies/Ph.D. in International Relations Combined Degree Pathway

The combined African & African Diaspora Studies M.A./International Relations Ph.D. pathway allows qualified graduate students to pursue both degrees at the same time.

Admission Requirements

To be accepted into this pathway, students must simultaneously submit applications for the M.A. in African & African Diaspora Studies and the Ph.D. in International Relations by January 15 in the year in which they wish to begin their studies.

To be considered for admission, students must meet the following requirements:

1. Minimum cumulative grade point average of 3.2 in undergraduate work.
2. Minimum cumulative grade point average of 3.5 in any prior graduate work.
3. Official Graduate Record Exam (GRE) scores.
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the iBT TOEFL (equivalent to 575 on the paper-based version of the Test of English as a Foreign Language) is required.

Applicants must follow the admission procedures for both programs (see the appropriate sections in this graduate catalog). Only applications to begin studies in the fall semester will be considered. This designation will appear in the menu of programs in the graduate application, and students must indicate their intention to apply for this combined degree pathway.

Each applicant must complete an online graduate application form and arrange to send transcripts of all prior college (undergraduate and graduate) work and official reports of the Graduate Records Exam (GRE) and TOEFL (if applicable) to FIU's Office of Graduate Admissions.

Each applicant should also submit a separate statement of purpose, along with copies of the above material. The letter of application should include a statement expressing the applicant's academic and professional objectives. Applicants must include writing samples and other relevant professional work that may support their applications. Applicants must request three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability. The letters of recommendation should be sent directly to the Director of the African & African Diaspora Studies Graduate Programs. AADS will photocopy the recommendation letters once they are all in and send them to the International Relations Graduate Program Director.

The application file must be complete before the African & African Diaspora Studies/International Relations Graduate Program Committees will consider the applicant for admission. We encourage applicants to send their application material sooner.

Required Credits

Students must fulfill the requirements for both programs. The 30 credits for the M.A. in AADS earned by students will count toward the 75 credits required for the Ph.D. in INR.

Language Requirement

Students must demonstrate proficiency in a language other than English according to the nature of their thesis or research paper/proposal and professional interests. The Director of AADS Graduate Programs will ask a university faculty member fluent in the language of interest to the student, to evaluate the student's fluency by asking her/him to summarize or synthesize the content of a text of between 10 to 20 pages, published in that language, in no more than one page. That exercise will have to take place at the university during a limited period of time. The text will be given to the student at the beginning of the exercise. The chosen text will have some connection to the student's research interest. Once a student has demonstrated proficiency for the M.A. in African & African Diaspora Studies, that proficiency will be recognized by the International Relations Ph.D. program. Therefore, proficiency in a foreign language will not be part of the candidacy exam. Credit hours earned in meeting the language requirement will not count towards the 30 credit hours required for the M.A. degree.

Students should apply for graduation with the M.A. in African & African Diaspora Studies as soon as they have completed all requirements for the degree – including the exit requirements, as specified for the M.A. in African & African Diaspora Studies. Ordinarily, students will complete these requirements and earn their M.A. before advancing to candidacy for the Ph.D. in International Relations. The research paper/proposal option is the only option available for students enrolled in this combined M.A./Ph.D. pathway.

Masters of Arts in African & African Diaspora Studies Requirements

This 30-credit, one year, three semester program occurring over the Fall, Spring, and Summer includes 9 credits of core AADS courses, which includes 3 credits for the directed research paper exit option, 6 credits of core International Relations courses, and 15 credits of electives. There is also a Foreign Language Requirement.

MA in AADS Core Courses: (9 credits)

AFA 5005	African and African Diaspora Studies Theory

AFA 5855	Research Methods in African and African Diaspora Studies	3
AFA 6920	African and African Diaspora Studies Graduate Colloquium	3-
	1 semester of graduate colloquium	

Combined MA in AADS/PhD in International Relations
Core Courses: (6 credits)

INR 5609	Contemporary Dynamics of International Relations	3
INR 6706	Political Economy of International Relations	3

M.A. in AADS in electives (15 credits)
15 credits of elective courses with an AADS focus may be from outside the International Relations Department and within the Green School and/or the College of Arts & Sciences. Students wishing to take courses outside of the Green School must seek prior approval.

MA in AADS Research Proposal or Paper Option
To graduate from the MA in AADS, students enrolled in this combined MA/PhD pathway must elect to complete either a research proposal or research paper for their exit option. Those who elect to write a research proposal must take AFA 6911 Research Paper/Proposal Writing in African and African Diaspora Studies.

Doctor of Philosophy in International Relations (75 credits)

The following courses in addition to all 30 M.A. credits:

INR 5615	Research Design in International Relations	3
GEO 6473	Space, Place, and Identity	3
INR 6608	Contemporary International Relations Theory	3

Major and Minor Fields: (12 credits)

Major field of study	9
Minor field of study	3

Electives: (6 credits)

Additional elective course work according to the specific information about elective courses indicated in the Ph.D. in INR section of the catalog.

Comprehensive Examinations

Once students have achieved 60 credits of course work, they must sit for written examinations on the core sequence of their fields as per the Ph.D. in INR section of the catalog.

Dissertation: (15 credits)

See the university catalog for relevant sections of the Ph.D. Program in International Relations for details.

MA in African & African Diaspora Studies/Ph.D. in Political Science Combined Degree Pathway

The combined African & African Diaspora Studies M.A./Political Science Ph.D. pathway allows qualified graduate students to pursue both degrees at the same time.

Admission Requirements

To be accepted into this pathway, students must simultaneously submit applications for the M.A. in African & African Diaspora Studies and the Ph.D. in Political Science by January 15 in the year in which they wish to begin their studies.

To be considered for admission, students must meet the following requirements:

1. Minimum cumulative grade point average of 3.2 in undergraduate work.
2. Minimum cumulative grade point average of 3.5 in any prior graduate work.
3. Official Graduate Record Exam (GRE) scores from with the last five years.
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the iBT TOEFL (equivalent to 575 on the paper-based version of the Test of English as a Foreign Language) is required.

Applicants must follow the admission procedures for both programs (see the appropriate sections in this graduate catalog). Only applications to begin studies in the fall semester will be considered. This designation will appear in the menu of programs in the graduate application, and students must indicate their intention to apply for this combined degree pathway.

Each applicant must complete an online graduate application form and arrange to send transcripts of all prior college (undergraduate and graduate) work and official reports of the Graduate Records Exam (GRE) and TOEFL (if applicable) to FIU's Office of Graduate Admissions.

Each applicant should also submit a separate statement of purpose, along with copies of the above material. The letter of application should include a statement expressing the applicant's academic and professional objectives. Applicants must include writing samples and other relevant professional work that may support their applications. Applicants must request three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability. The letters of recommendation should be sent directly to the Director of the African & African Diaspora Studies Graduate Programs. AADS will photocopy the recommendation letters once they are all in and send them to the International Relations Graduate Program Director.

The application file must be complete before the African & African Diaspora Studies/International Relations Graduate Program Committees will consider the applicant for admission. We encourage applicants to send their application material sooner.

Required Credits

Students must fulfill the requirements for both programs. The 30 credits for the M.A. in AADS will count toward the required coursework for the doctoral program.

Masters of Arts in African & African Diaspora Studies Requirements

This 30-credit, one year, three semester program occurring over the Fall, Spring, and Summer includes 9 credits of core AADS courses, which includes 3 credits for

the directed research paper exit option, 6 credits of core Political Science courses, and 12 credits of electives. Students are encouraged to select eligible Political Science courses to fulfill their MA elective requirements and must seek advanced approval from the Political Science Graduate Program Director in order to have these credits applied to the Ph.D. course requirements. There is also a Foreign Language Requirement.

MA in AADS Core Courses: (9 credits)

AFA 5005	African and African Diaspora Studies Theory	3
AFA 5855	Research Methods in African and African Diaspora Studies	3
AFA 6920	African and African Diaspora Studies Graduate Colloquium (3-1 credit over three semesters)	

Combined MA in AADS/PhD in International Relations Core Courses: (6 credits)

POS 5607	Research Methods	3
POS 5716	Foundations in Political Science	3

M.A. in AADS in electives (15 credits)

15 credits of elective courses with an AADS focus are required. Students are encouraged to select courses from within the Political Science Department. If students wish to take electives from outside the Political Science Department and within the Green School and/or the College of Arts & Sciences, they must seek prior approval from the Graduate Program Directors of both AADS and Political Science

List of Approved Elective Courses

AFA 5932	Special Topics in African and African Diaspora Studies
AFA 6245	African Diaspora in Latin America
AFA 5600	National and Transnational Policy Analysis: The African Diaspora
AFA 5341	Health Issues in the African World
AFA 6217	Sex, Race, and Power in European Colonial Times (crosslisted with SYD 6796)
ANG 6473	Diasporas, Migration, and Globalization
CPO 5278	Comparative Racial Politics
CPO 5325	Politics of the Caribbean
CPO 6350	Seminar in Brazilian Politics
CPO 6376	Seminar in Central American Politics
CPO 6206	Seminar in African Politics
ECS 5406	Latin American Economics
ECS 6436	The Economics of Caribbean Migration
ECS 7435	Economics of the Caribbean
HIS 5930	Special Topics: US and the Caribbean
INR 5087	Ethnicity and the Politics of Development
INR 5255	Seminar in African Development
INR 6936	Seminar in Inter-American Politics
ISS 6317	Social Science Research Quantitative Methods I
LAH 5465	Peoples, Culture and Politics of Haiti
LAW 6234	Race and Law
REL 5488	Theology and Liberation Movements
SYD 6705	Comparative Analysis of Ethnicity and Race
WOH 5236	The Transatlantic Slave Trade and the Making of the African Diaspora, 1441-1807
WOH 5237	The African Diaspora Since the End of the Slave Trade

MA in AADS Research Proposal or Paper Option

To graduate from the MA in AADS, students enrolled in this combined MA/PhD pathway must elect to complete either a research proposal or research paper for their exit option. Those who elect to write a research proposal must take AFA 6911 Research Paper/Proposal Writing in African and African Diaspora Studies.

Language Requirement

Students must demonstrate proficiency in a language other than English according to the nature of their research paper/proposal and professional interests. The Director of AADS Graduate Programs will ask a university faculty member fluent in the language of interest to the student, to evaluate the student's fluency by asking her/him to summarize or synthesize the context of a text of between 10 to 20 pages, published in that language, in no more than one page. That exercise will have to take place at the university during a limited period of time. The text will be given to the student at the beginning of the exercise. The chosen text will have some connection to the student's research interest. Once a student has demonstrated proficiency for the M.A. in African and African Diaspora Studies, that proficiency will be recognized by the Political Science Ph.D. program. Therefore, proficiency in a foreign language will not be part of the candidacy exam. Credit hours earned in meeting the language requirement will not count towards the 30 credit hours required for the M.A. degree.

Students should apply for graduation with the M.A. in African and African Diaspora Studies as soon as they have completed all requirement for the degree — including the exit requirements, as specified for the M.A. in African and African Diaspora Studies. Ordinarily, students will complete these requirements and earn their M.A. before advancing to candidacy for the Ph.D. in Political Science. The research paper/proposal option is the only option available for students enrolled in this combined M.A./Ph.D. pathway.

Doctor of Philosophy in Political Science (76 credits)

The following courses are required for the PhD in Political Science. The M.A. earned credits that are eligible to be applied to the Ph.D. must be approved in advanced by the Political Science Graduate Program Director:

POS 5702	Teaching Political Science	1
POS 6918	Seminar in Political Science Methodology	3
CPO 5091	Seminar in Comparative Politics	3
INR 5007	Seminar in International Politics	3
POS 5045	Seminar in American Politics	3
POT 5007	Seminar in Political Theory	3
Two Examination Fields (minimum)		12
Third Specialization (minimum)		9
Approved Electives(minimum)		9

Language Requirement

The Political Science Ph.D. program requires competency in one foreign language or demonstrated competency in computer and methodological techniques when considered more appropriate. Language competency must

be demonstrated prior to taking the comprehensive examinations.

Comprehensive Examinations

After satisfactory completion of course work, students will take comprehensive exams in two chosen subfields before admitted to candidacy and defending a dissertation proposal. The comprehensive exams require a demonstration of broad knowledge of the two examination fields.
Comprehensive examinations are given twice yearly, in mid-September and in mid-January.

Dissertation (minimum 24 credits)

After passing the comprehensive exams, students are admitted to candidacy and enroll for dissertation credits under the supervision of their dissertation advisors. Candidates will prepare and defend a dissertation proposal. Upon completion of the work, a public defense of the dissertation will be scheduled in accordance with university policy.

Course Descriptions

Definition of Prefixes

AFA-African and African Diaspora Studies

AFA 5005 African and African Diaspora Studies Theory (3). Explores the emergence of three fields of inquiry in Africana Studies: African Studies, African Diaspora Studies, and African-American Studies. Focus on major themes, ideas, and diverse conceptual and theoretical perspectives. Prerequisite: Graduate standing.

AFA 5107 Teaching the African-American Experience (3). Teachers Institute on literature, culture, history, politics designed to meet Florida State Teachers Certification requirements. Includes instruction on pedagogy, practical teaching methods, and FCAT.

AFA 5248 Transnational Connections: Latin America and the Caribbean in Africa (3). Analyzes the dynamic transnational relationships that have unfolded across the South Atlantic between Latin America and the Caribbean and Sub-Saharan Africa over time.

AFA 5302 Africana Visual Arts (3). A study of Africana, African, and/or African Diaspora Visual aesthetics. It examines relationships between Africana Visual arts and other creative forms. Prerequisite: Graduate standing.

AFA 5341 Health Issues in the African World (3). Examination of the history of the biomedicine system and its relationship to African populations, and the evolution of this relationship with respect to disease in the contemporary world. The course is organized to promote awareness of the impact of culture, ethnicity, racism, class on public health research.

AFA 5600 National and Transnational Policy Analysis: The African Diaspora (3). Analysis of national and transnational policies as they directly relate and impact the African Diaspora. Prerequisite: Graduate Standing.

AFA 5855 Research Methods and Scholarly Writing in Africana Studies (3). This proseminar addresses research methods for the multi- and inter-disciplinary study of sociocultural realities to African and African Diaspora peoples, globally.

AFA 5932 Special Topics in African and African Diaspora Studies (3). An examination of different features of Continental Africa and the African Diaspora not normally offered in the basic curriculum or otherwise offered. May be repeated. Prerequisite: Graduate standing.

AFA 5934 Special Topics in Black Transnationalism (3). A course designed to give groups of students special studies in the black experience transnationally. Prerequisite: Graduate Standing.

AFA 6217 Sex, Race, and Power in European Colonialisms (3). Critical examination of sexual intimacy in colonial contexts between European colonizers and colonized people. An exploration of the intersection between racialization and sexualization. Prerequisite: Graduate standing.

AFA 6245 The African Diaspora in Latin America (3). Advanced exploration of the historical, socioeconomic, and political realities of African diasporic communities in Central America, the Caribbean, and South America. Corequisite: Graduate standing.

AFA 6851 Advanced Seminar in African and African Diaspora Studies (3). Reflections on the global diversity of black subjectivities and African and African diasporic communities and experiences. A research paper/research proposal writing seminar. Prerequisite: Graduate standing.

AFA 6905 Independent Study (0-6). Student generated research projects in African and African Diaspora Studies. Independent investigation, reports on individual and assigned reading with AADS core and affiliated faculty.

AFA 6911 Research Paper/Proposal Writing in African and African Diaspora Studies (3). Development of skills in writing research papers and/or proposals. Prerequisite: Graduate standing.

AFA 6920 African and African Diaspora Studies Graduate Colloquium (1-3). Colloquia, symposia, lectures, conferences presented by faculty, visiting scholars, and graduate students on topics of current research interest. May be repeated with departmental approval. Prerequisites: Graduate standing, graduate advisor approval.

AFA 6940 Community Project/Internship Research in African and African Diaspora Studies (0-6). Qualitative and quantitative research using a variety of sources. Research projects conducted in the field by students under faculty supervision. May be repeated. Prerequisite: Permission of the department required.

AFA 6971 Thesis Research in African and African Diaspora Studies (1-6). Quantitative and qualitative research using a variety of sources, e.g. primary and secondary documents, filed research under faculty supervision. May be repeated with departmental approval. Prerequisites: Graduate standing, graduate advisor approval.

Asian Studies

Steven Heine, *Director, Asian Studies*

Affiliated Faculty:
Thomas A. Breslin, *Politics and International Relations*
Mitzi Carter, *Global and Sociocultural Studies and Asian Studies*
Young Rae Choi, *Global and Sociocultural Studies*
Marcela Lopez Bravo, *Asian Studies*
Matthew David Marr, *Global and Sociocultural Studies*
Eric T. Messersmith, *Asian Studies*
Keyao "Kyle" Pan, *History*
Lidu Yi, *Chinese Art & Art History*
Jin Zeng, *Politics and International Relations*

Master of Arts in Asian Studies

The M.A. degree in Asian Studies is an interdisciplinary program that draws on faculty from the Steven J Green School of International and Public Affairs and professional schools at FIU. The courses are coordinated by Asian Studies, which also sponsors workshops, lectures, cultural events, and study abroad programs.

The master's program provides students with a rich learning experience about a fascinating and increasingly important region of the world, and is intended to enhance the student's competitiveness upon graduation. The program provides a multidisciplinary approach covering the philosophy, religion, art history, language and literature of Asia as well as issues in history, politics, geography, sociology/anthropology, and international relations.

For further information please contact the Asian Studies office, located at SIPA 512, at **asian@fiu.edu** or at (305) 348-1914. Also, visit our website at: **http://asian.fiu.edu**.

Admission Requirements

Applications to the Master of Arts in Asian Studies Program must be made through the FIU University Graduate School (UGS) online portal. Applicants must also submit the following materials, as required by UGS:

1. Statement of Purpose
2. One Letter of Recommendation
3. Transcripts from previous accredited institution(s)

As required by the Asian Studies Program, applicants must meet one of the following minimum requirements for admission to the MAAS program:

1. A Bachelor's degree from an accredited institution;
2. 3.2 GPA in undergraduate degree program;
3. 3.0 GPA in undergraduate degree program with appropriate language or study abroad background as determined by examination or evaluated by the program faculty committee.
4. A Master's degree in the humanities or social sciences from an accredited institution;

The above admission requirements are minimums and not all students meeting them are assured admission. The GRE is not required.

International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Degree Requirements (both concentrations)

The MAAS program offers two graduation exit options:

1. 30 credits - Completion of thesis project
2. 30 credits - Completion of a master's essay

Language Requirements

Students choosing the Master's Thesis option will be asked to demonstrate competence in an Asian language relevant to their thesis project when appropriate (e.g. for pre-modern studies or fieldwork research). Proficiency requirements will be determined by the thesis committee. Credits earned in meeting the language requirement will not count towards the credit hours required for the degree.

Core Courses: (9 credits)
Choose three of the following:

ASN 5315	Topics in Modern Asia
ASN 5050	Methods in Asian Studies
ASN 5815	Studies of East Asian Texts
SYD 6901	Cities in Asia
ASN 5213	Asian Studies Colloquium
ASN 5910	Independent Research in Asian Studies
ASN 6930	Seminar in Asian Studies
ASN 6940	Internship in Asian Studies

Other Coursework: (15 credits)
Students must complete 15 credits of additional coursework relevant to their research topic. Students may receive credit through independent study, study abroad, or internship approved by the program advisor.

An additional research methods course in a discipline related to the student's primary area of study may be taken as an elective, such as HIS 6059 (Historical Methods), INR 5615 (Research Design in International Relations), POS 5706 (Research Methodology), RLG 6013 (Modern Analysis of Religion), RLG 6935 (Seminar in Sacred Texts), SYA 6305 (Research Methods I), or equivalent.

Master's Thesis Option: (6 credits)
ASN 6972 Thesis
Please visit the FIU Graduate School website for up to date information on thesis guidelines and deadlines.
http:// gradschool.fiu.edu/thesis-dissertation/

Non-Thesis Option: Master's Essay (6 credits)
1. ASN 6912 Master's Essay in Asian Studies 3 credits
2. Additional graduate-level Asia-specific course 3 credits

Master's Essay can be taken multiple times. Some students may be encouraged to develop their research projects by taking this course.
Please visit the Asian Studies website for up to date information on guidelines and deadlines for the master's essay.
https://asian.fiu.edu/

Important Note about Program Options: At mid-course in the program (15 credits) the student must meet with the Program Director or Graduate Director who will determine whether the student is recommended for the thesis option or the non-thesis option.

Graduate Courses

ASH 5446	Readings in Japanese History

ASH 5905	Readings in Asian History
ASN 5130	Zen and the Arts
ASN 5131	Zen and the Arts II
ASN 5431	Studies of Women in East Asia
ASN 5815	East Asian Texts
ASN 5932	Special Topics
ECO 5709	World Economy
ECO 5735	Multinational Corporations
ECP 5707	International Economic Problems and Policies
HIS 5289	Comparative History
IDS 6938	Great Ideas Seminar: Human Nature
INR 5086	Islam in International Relations
INR 5315	Foreign Policy Analysis
INR 5544	The New Asian Century
INR 6205	World Politics
INR 6706	Political Economy of International Relations
MUH 5057	Music of the World
MUH 5575	Survey of Asian Music
RLG 5331	Religions of India
RLG 5346	Seminar on Buddhism
RLG 5352	Religions of East Asia
RLG 6319	Seminar in Asian Religions
SYD 6655	Seminar on Social Change in Asia

For more information, contact the Asian Studies office, SIPA 512. Email: **asian@fiu.edu**; phone: (305) 348-1914; website: **http://asian.fiu.edu**.

Combined BA/MA in Asian Studies Degree Pathway

The combined BA/MA degree pathway allows highly qualified undergraduate students to pursue an accelerated MA degree in Asian Studies. Students accepted into this pathway will be able to complete the MA degree as early as one year sooner than would otherwise be possible. Students accepted into the Asian Studies Honors track are particularly encouraged to apply for this pathway.

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees. A complete application requires:

1. Current enrollment in BA program in Asian Studies at FIU
2. Completion of 75 credits of undergraduate coursework
3. Overall GPA of 3.2 (including undergraduate and graduate courses)
4. One letter of recommendation
5. Statement of purpose discussing interests in the field

Students should consult the graduate catalog and the Asian Studies website for a more comprehensive discussion of admission requirements (**http://asian.fiu.edu**).

The program gives students the opportunity to take up to 12 credits of graduate coursework that will count towards both the BA and the MA. Students may take up to four 5000-level or higher graduate courses their senior year and follow the regular MA curriculum after they earn their BA degree.

Undergraduate Senior Year
Fall Semester – apply to the program by the end of the semester
Spring Semester – take 12 credits, including 9 graduate credits in 5000-level or higher courses

Graduate Program
Summer Semester – take 3 graduate credits (5000-level or higher)
Fall Semester – take 9 graduate credits (5000-level or higher)
Spring Semester – take 9 graduate credits (5000-level or higher, including thesis or master's essay)

Students in the combined BA/MA pathway in Asian Studies must complete all other requirements for the MA degree in Asian Studies (please consult the graduate catalog and the program's online graduate handbook). Students in this program have up to a year to complete the master's degree after receipt of the bachelor's degree. Students who fail to meet this year post BA requirement or who elect to leave the combined pathway at any time and earn only the BA degree will have the same access requirements to regular graduate programs as any other student, but will not be able to use the 12 graduate credits in both the bachelor's and master's degrees.

M.A. in Asian Studies/Ph.D. in Global and Sociocultural Studies Combined Degree Pathway

The combined Asian Studies MA/Global & Sociocultural Studies PhD pathway allows qualified graduate students to pursue both degrees at the same time. Students can develop an expertise in Asian Studies while progressing towards a PhD in one of the three majors in the Global and Sociocultural Studies PhD: geography, sociology, or anthropology.

Admission Requirements

Applicants must meet the following minimum requirements of Global and Sociocultural Studies to be considered for admission:

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.5 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores;
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for

the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the internet-based TOEFL (equivalent to 550 on the paper-based version) or a 6.5 overall on the IELTS is required.

Admission Procedure

To be accepted into this pathway, students must submit an application to the PhD in Global and Sociocultural Studies with a sub-plan for a MA in Asian Studies. This designation will appear in the menu of programs in the graduate application. To be accepted into this pathway, students must submit an application by February 1st in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the online application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable;
5. Statement of purpose explaining his/her interest for enrolling in both the AS MA program and in the Ph.D. program in GSS. The statement of purpose must clearly address the applicant's academic and professional objectives for enrolling in both fields of inquiry. The statement of purpose must also indicate the intended major (international political economy or Asian cultural studies for the AS MA ,and anthropology, geography, or sociology for Ph.D. in GSS) the applicant plans to select while engaged in the PhD in GSS;
6. Three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability;
7. A curriculum vitae or resume; and
8. Writing samples and other relevant professional work that may support their applications.

Degree Requirements for M.A. in Asian Studies

(30 credits Thesis Option/30 credits Non-Thesis Option) Up to 30 credits earned for the M.A. in AS will count towards the 75 credits required for the Ph.D. in GSS. Exceptions can be made based on the needs of the doctoral program

Core (6 credits)

ASN 5050	Methods in Asian Studies
ASN 5213	Asian Studies Colloquium
ASN 5315	Topics in Modern Asia
ASN 5910	Independent Research in Asian Studies
ASN 6930	Seminar in Asian Studies
ASN 6940	Internship in Asian Studies

Courses required for GSS Track (12 credits)

ISS 6305	Research Design and Methods
SYA 6127	Theory and Inquiry
ISS 6317	Social Research Quantitative Methods
SYA 6959	Writing Research Proposals

Asian Studies Courses (6 credits)

6 credits Asia-specific courses pertaining to main concentration (from courses listed below)

- SYD 6418 Urban Sociology in Global Perspective
- SYD 6655 Seminar on Social Change in Asia
- SYD 6901 Japanese Society in Global Perspective
- SYD 4654 State and Society in China

Language Requirement

Depending on the research topic students may be required to demonstrate language competency by the Asian Studies Graduate Committee.

MAAS Exit Options, Thesis or Non-Thesis

Thesis Exit Option (6 credits):

ASN 6972 Thesis

Non-Thesis Exit Option (6 credits):

ASN 6912 Master's Essay (3 credits) and one additional Asia-specific course (3 credits)

Master's Essay can be taken multiple times. Some students may be encouraged to develop their research projects by taking this course.

Application for Graduation from MA in AS

Students should apply for graduation for the MA in AS as soon as they have completed all requirements for the degree – including the exit option.

Matriculation to PhD in GSS

All students must undergo a successful M.A. review upon completion of the AS Master's Program requirements in order to continue toward the Ph.D. in GSS. The GSS Graduate Committee, along with an appointee from AS, conducts these reviews. The purpose of the M.A. review is to determine the ability of the student to do Ph.D. level work with the department's faculty. Among the information considered during the review are student's performances and grades in courses, and faculty recommendations.

Degree Requirements for Ph.D. in Global and Sociocultural Studies

The doctorate in Global and Sociocultural Studies requires a minimum of 75 credits beyond the baccalaureate including a dissertation based on original research, up to 30 credits of the MA in AS will count toward the 75-credit minimum. Thus, a minimum of 42 credits must be earned beyond the MA.

Major Courses (36 credits)

All doctoral students will choose a major in Anthropology, Geography, or Sociology. The following distribution of coursework is required:

a) Major theory methods (3)
b) Major methods (3)
c) Major course electives (9 minimum)
   - Doctoral Exam Preparation (6 maximum)
   - Doctoral Dissertation (15 minimum)

General Electives (6 credits)

GSS and non-GSS Department electives

Ph.D. General Examination

After successfully completing the common core requirements, the major's course requirements, and electives, a student prepares for the Ph.D. General Exam by enrolling in a maximum of six credits of exam preparation for their major. In preparation for the exam, a student forms a dissertation committee according to the regulations published on the University Graduate School web page (**http://gradschool.fiu.edu**). The Ph.D. General

Exam addresses the student's anticipated dissertation topic, and is conducted according to the University Graduate School Policies and Procedures Manual and the Department's Ph.D. General Exam guidelines.

The Dissertation Proposal and Defense/Candidacy Exam

After passing the Ph.D. General Exam, a student works under the guidance of the dissertation committee to prepare a dissertation proposal and defend it orally before the committee. The chair of the dissertation committee must hold Dissertation Advisor Status from the University Graduate School. The proposal defense serves as the doctoral candidacy exam for the Ph.D. program in Global and Sociocultural Studies. Upon passing the proposal defense, a student is admitted to candidacy status.

The Dissertation and Dissertation Defense

After successfully defending a dissertation proposal, a student conducts the proposed research and completes a dissertation under the guidance of a dissertation committee. Only after successfully defending the dissertation proposal may a student register for dissertation hours (ANG 7980, GEO 7980, or SYA 7980). The Ph.D. program requires a student to be continuously enrolled in a minimum of 3 hours of Doctoral Dissertation each semester from the time of advancement to candidacy until completion of the dissertation, including summers. Upon completion of the dissertation manuscript and authorization by the committee, a student defends the dissertation before the committee and the University community. The University Graduate School's regulations governing the dissertation are described at **http://gradschool.fiu.edu**.

Combined Master of Arts in Asian Studies/Doctor of Philosophy in International Relations Degree Pathway

The combined M.A. in Asian Studies/Ph.D. in International Relations pathway allows qualified graduate students to pursue both degrees simultaneously. To be accepted into this pathway, students must submit an application for the M.A. in Asian Studies/Ph.D. in International Relations by January 15 in the year in which they wish to begin their studies. Applicants must meet the admission eligibility requirements and follow the admission procedures for both programs.

Students must fulfill the requirements for both programs, and up to 33 credits may count for both degrees. To graduate, students must complete the requirements of the International Relations doctoral program, including the required 75 hours.

In addition to the requirements for the two degrees, during their first two years of enrollment in this combined degree pathway, students will enroll in the following course which fulfills the M.A. in Asian Studies methods requirement:

INR 5615	Research Design in International Relations

The following International Relations courses will also be taken by M.A. in Asian Studies students during the first two years of the program and will count toward the M.A.:

INR 5609	Contemporary Dynamics of International Relations
INR 6706	Political Economy of International Relations

Master of Arts in Asian Studies

Requirements

(30 credits Thesis Option / 30 credits Non-Thesis Option)

Core Courses: (24 credits)

- 9 credits of ASN 5000 or 6000 courses approved by the director
- 9 credits pertaining to world affairs
- 6 credits in Asian area studies

MAAS offers two exit options, Thesis or Non-Thesis

Thesis Exit Option: (6 credits)

ASN 6972	Master's Thesis

Non-Thesis Exit Option: (6 credits)

ASN 6912	Master's Essay (3 credits and one additional course (3 credits)

Master's Essay can be taken multiple times. Some students may be encouraged to develop their research projects by taking this course.

Doctor of Philosophy in International Relations (75 credits)

Core Courses: (15 credits)

INR 5609	Contemporary Dynamics of International Relations	3
INR 5615	Research Design in International Relations	3
INR 6604	International Relations Theory I	3
INR 6608	Contemporary International Relations Theory	3

Second methods course from the following list (or another methods course approved by the Graduate Program Director):

INR XXXX	Qualitative and Interpretive Methods in International Relations
POS 5706	Graduate Seminar in Political Science Research Methods
ECO 7424	Econometric Methods I
ANG 6480	Ethnohistorical Research Methods
ANG 6497	Qualitative Research Methods
GIS 5935	Topics in GIS
PAD 7705	Applied Quantitative Analysis I
PAD 7707	Applied Quantitative Analysis II
PAD 7703C	Empirical Methods in Public Administration

Gateway courses (9 credits)

There are four major field of study: (1) Global Political Economy and Development (2) Comparative Area Studies (3) Foreign Policy and Security Studies, and (4) Global Governance, International Law and International Ethics. Student must take one gateway course for three of these fields. Gateway courses for each field are:

(1) INR 6706	Political Economy of International Relations
(2) INR 5017	Approaches to Area Studies
(3) INR 6338	Strategic Studies
(4) INR 5409	International Law I
	or
INR 5507	International Organizations

Major and Minor Fields: (15 credits)

9 credits in major field of study
6 credits in minor field of study

Electives: (15 credits)
Additional elective coursework

Comprehensive Exams (6 credits)
Once students have achieved 60 credits, they must sit for written examination on the core sequence of their fields

Dissertation: (15 credits)
INR 7980 Ph.D. Dissertation

Combined Master of Arts in Asian Studies/Doctor of Philosophy in History Degree Pathway

The combined M.A. in Asian Studies/Ph.D. in History program allows qualified graduate students to pursue both degrees simultaneously. To be accepted into this pathway, students must simultaneously submit applications for the M.A. in Asian Studies and the Ph.D. in History. Applicants must meet the admission eligibility requirements and follow the admission procedures for both programs.

Students must fulfill the requirements for both programs, and up to 36 credits may count for both degrees. To graduate, students must complete the requirements of the History doctoral program, including the required 75 hours.

During their first two years of enrollment in this dual degree program, students will enroll in the following coursework which fulfills the Asian Studies M.A. requirements:

Master of Arts in Asian Studies

Requirements

(30 credits Thesis Option / 30 credits Non-Thesis Option)

Core Courses: (24 credits)

- 9 credits of ASN 5000 or 6000 courses approved by the director
- 9 credits pertaining to world affairs
- 6 credits in Asian area studies

MAAS offers two exit options, Thesis or Non-Thesis

Thesis Exit Option: (6 credits)
ASN 6972 Master's Thesis

Non-Thesis Exit Option: (6 credits)
ASN 6912 Master's Essay (3 credits and one additional course (3 credits)
Master's Essay can be taken multiple times. Some students may be encouraged to develop their research projects by taking this course

Students will begin study towards the Ph.D. is History immediately following their satisfactory completion of MAAS degree requirements. Students are expected to meet at the degree requirements for the Ph.D. in History, which requires a total of 75 credits.

Doctor of Philosophy in History

Courses required in addition to the degree requirements for the M.A. in Asian Studies (minimum 42-45 credits depending on MA Option selected)

- 3 credits Advanced Readings in Atlantic Civilization (HIS 6906)
- 3 credits Research in Atlantic Civilization (HIS 6918)
- 6 credits outside of Asian Studies and Atlantic Civilization (also excluding Methods), 3 credits of which must be in a comparative course (HIS or WOH prefix)
- 15-18 credits electives depending on MA option
- 15 credits Ph.D. Dissertation (HIS 7980)

Course Descriptions

Definition of Prefixes

ASN-Asian Studies; FLE-Foreign Language Education

ASN 5050 Methods in Asian Studies (3). An examination of interdisciplinary methods for studies of Asia covering premodern and modern, language and area studies, fieldwork and deskwork, and qualitative and quantitative approaches.

ASN 5130 Zen and the Arts (3). Examines the history, theory, and practice of Chado (Way of Tea), a Zen-inspired art that has had, and still exerts, a long-lasting influence on Japanese society.

ASN 5131 Zen and the Arts II (3). Theory, practice, aesthetics and cultural history of Chado the Tea Ceremony of Zen Buddhism.

ASN 5149 Topics in Modern China (3). Advanced studies in contemporary Chinese society from the early period of the People's Republic to the period since economic reforms in 1978.

ASN 5171 International Relations of Contemporary China (3). Survey of the dynamic interaction between external and internal factors on China's international relations.

ASN 5211 Asian Cultures and Influences (3). Examines diverse forms of Asian cultural manifestations and examples of self-expression, and the manner in which these styles have influenced modern Western movements (Transcendentalism and the Beats).

ASN 5213 Asian Studies Colloquium (1-3). Graduate students will develop applied knowledge of various aspects of Asian culture as well as Asia's role in contemporary world affairs.

ASN 5306 Applying Asian Cultural Values in Business (3). Critical survey of traditional Asian values. Topics to include the way they have been applied to the world of entrepreneurship, cultural constructions of the Asian business community and philosophical approaches to the formation of entrepreneurial strategies.

ASN 5315 Topics in Modern Asia (3). Focus on modernization, or the transition from pre-modern (classical and medieval) to elements of the modern, including westernization, industrialization, and the roles of capitalism, communism, imperialism, and colonialism, as well as the impact of post-colonialism and post-modern society in Asia.

ASN 5431 Studies of Women in East Asia (3). Provides a multidisciplinary examination of the experience and representations of women in East Asia with a focus on the traditional and contemporary periods.

ASN 5605 Silk Road: Then and Now (3). Examination of the historical and contemporary significance of the Silk

Road as an avenue for commercial and cultural exchange between East and West.

ASN 5815 Studies of East Asian Texts (3). Advanced studies of classical and contemporary East Asian readings, including interpretation and analysis from traditional and contemporary perspectives. Prerequisite: Permission of the instructor.

ASN 5910 Independent Research in Asian Studies (1-6). Topics will be selected to meet academic needs for students doing research in some specialized area of Asian studies. Prerequisite: Permission of the instructor.

ASN 5932 Special Topics in Asian Studies (3). An examination of specific topics in Asian Studies. The content to be determined by instructor.

ASN 6912 Master's Essay in Asian Studies (1-6). Supervised research project. Requires prior approval by instructor. May be retaken for credit. Prerequisite: Graduate standing.

ASN 6930 Seminar in Asian Studies (3). Content to be determined by the instructor. May be repeated for credit when content changes.

ASN 6940 Internship in Asian Studies (0-3). Students intern in local, national and international organizations with ties to Asia. The nature of the work to be determined in conjunction with the advisor. May be repeated. Prerequisite: Permission of the department required.

ASN 6972 Master's Thesis (1-6). Writing and completion of thesis. Students must have completed all other requirements for Master of Arts degree in Asian Studies. Prerequisite: Permission of the Thesis director.

FLE 5855 Pedagogical Methods for Chinese Language (3). Introduction to Chinese language pedagogy, providing knowledge and tools for teaching Chinese language and culture in a classroom and a variety of pedagogical settings. Prerequisite: Permission of the instructor.

Criminology and Criminal Justice

Lisa Stolzenberg, *Professor and Chair*
Candice A. Blanfort, *Assistant Teaching Professor and Field Experience Director*
Ana Carazo, *Co-Director, Center for the Administration of Justice*
Rosa Chang, *Associate Teaching Professor and Graduate Program Director*
Ellen G. Cohn, *Associate Professor*
Stewart J. D'Alessio, *Professor*
Kristin Elink-Schuurman-Laura, *Assistant Teaching Professor*
Jamie L. Flexon, *Professor*
Amy Hyman Gregory, *Assistant Teaching Professor and Undergraduate Program Director*
Tim Goddard, *Associate Professor*
Rob Guerette, *Professor*
Suman Kakar Sirpal, *Associate Professor*
Besiki Luka Kutateladze, *Associate Professor*
Lin Liu, *Assistant Professor*
Ryan C. Meldrum, *Professor and Director of Research and Communications*
Robert Peacock, *Assistant Professor*
Melba Pearson, *Senior Fellow*
Stephen Pires, *Associate Professor*
Juan M. Saiz, *Teaching Professor*
Luis P. Salas, *Professor and Associate Vice President for Research*
Theodore Shields, *Associate Teaching Professor and Technology Liaison*
Carleen Vincent Robinson, *Teaching Professor and Assistant Dean, Steven J. Green School of International and Public Affairs*
Kristen Zgoba, *Associate Professor*

Master of Science in Criminal Justice

Admissions Requirements

1. Bachelor's degree from an accredited institution.
2. GPA of 3.2 or higher in upper division coursework.
3. Grade of "B" or better in an undergraduate research methods course.
4. Statement of purpose describing the reasons for pursuing an advanced degree, research interests, and career plans.
5. Example of your written work judged by the admission committee to be of sufficient quality.
6. Two letters of recommendation from professors or employers familiar with your academic and professional qualifications.

Degree Credit Requirements

The Master of Science degree in Criminal Justice requires 36 credit hours (12 courses). All students entering the program are required to complete five courses (15 credits) of core requirements, four electives (12 credits) in criminal justice, and three courses (9 credits) in general electives.

Core Requirements

All candidates must take five core courses (15 credits)

CCJ 6025	Criminological Theory	3
CCJ 6676	Transnational Crime and National Security	3
CCJ 6705	Research Methods in Criminal Justice	3
CCJ 6706	Data Analysis in Criminal Justice	3
CCJ 6485	Criminal Justice Policy Analysis	3

Criminal Justice Electives

Four courses (12 credits). All elective credits must be earned at the graduate level in criminal justice (i.e., course numbers of 5000 and higher with the prefixes CCJ, CJC, CJE, CJJ, CJL, DSC).

College teaching preparation: Students interested in college teaching should complete the Graduate Teaching Certificate Program offered by the Center for the Advancement of Teaching and CCJ 6926 Teaching Methods and Strategies.

Doctoral studies preparation: Advanced students intending to enroll in a doctoral degree program should complete CCJ 6915 Supervised Research.

General Electives

Students must select three additional elective courses (9 credits). These courses may be taken outside of criminal justice, if no credits have been transferred in from another degree program or included in a joint degree program. All courses taken from outside fields must be relevant to criminal justice and approved by the graduate director. All elective credits must be earned at the graduate level (i.e., course numbers of 5000 and higher).

Graduation Requirements

To receive the Master's degree in Criminal Justice, a student must satisfy all University regulations governing graduate study. All students must complete the five core courses, four electives in criminal justice, and three courses in general electives. A minimum graduate GPA of 3.0 is required.

Accelerated MS in Criminal Justice Programs Pathways

Combined BS/MS in Criminal Justice Degree Pathway: This pathway accelerates completion of the MS in Criminal Justice for qualified students enrolled in the BS in Criminal Justice at FIU.
Criminal Justice 4+1 Degree Pathway: This pathway accelerates completion of the MS in Criminal Justice for qualified students enrolled in an approved bachelor's degree program at FIU (other than the BS in Criminal Justice).
Admission Requirements: Students must have completed 75 credits, have a minimum of a 3.2 cumulative GPA, and meet the admissions criteria for the MS in Criminal Justice. Only 5000-level or higher courses, and no more than 12 credits may be applied toward both degrees.
Completion Requirements: Students must complete their bachelor's degree at FIU, including up to 12 credits of graduate criminal justice courses.

Juris Doctor/Master of Science in Criminal Justice Joint Degree Pathway

The faculties of the College of Law and the Department of Criminology and Criminal Justice at Florida International University have approved a joint degree pathway culminating in both a Juris Doctor degree (JD), awarded

by the College of Law, and a Master of Science in Criminal Justice degree (MSCJ), awarded by the Department of Criminology and Criminal Justice. Under the joint degree program, a student can obtain the degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. Essential criteria relating to the joint degree pathway are as follows:

1. Candidates for the pathway must meet the entrance requirements for and be accepted by both programs. Both programs must be informed by the student at the time of application to the second program that the student intends to pursue the joint degree.
2. The joint degree pathway is not open to students who have already earned a JD or a MSCJ.
3. For law students, enrollment in the MSCJ program is required no later than the completion of 63 credit hours in the JD program. For MSCJ students, enrollment in the JD program is required no later than the completion of 24 credit hours in the MSCJ program.
4. A student must satisfy the curriculum requirements for each degree before either degree is awarded. The Department of Criminology and Criminal Justice will allow 12 credit hours of College of Law criminal law and jurisprudence courses to be credited toward both the MSCJ and JD degrees. These 12 credit hours of law classes will be in lieu of four elective courses. Reciprocally, law students may receive 9 hours of credit toward the satisfaction of the JD degree for courses taken in the MSCJ curriculum upon completion of the MSCJ degree with a grade point average of 3.0 or higher. Subject to prior approval, law school students are normally allowed 6 credit hours from graduate level courses offered by other units of the University as counting toward the JD degree.
5. A full-time law student enrolled in the joint degree pathway may spend the first year in either the College of Law or the Department of Criminology and Criminal Justice. A part-time law student enrolled in the joint degree pathway may begin the student's studies in either program, but must take the first three semesters of law study consecutively. Students admitted to one program may enter the second program thereafter without once again qualifying for admission so long as they have notified the second program before the end of the first week of the first semester in the second program and are in good academic standing when studies commence in the second program.
6. A student enrolled in the joint degree pathway will not receive either degree until the student has satisfied all of the requirements for both degrees, or until the student has satisfied the requirements of one of the degrees as if the student had not been a joint degree pathway candidate.

Master of Science in Criminal Justice/Master of Public Administration Joint Degree Pathway

The Department of Criminology and Criminal Justice and the Department of Public Policy and Administration have a joint degree pathway culminating in both a Master of Science in Criminal Justice (MSCJ) and a Master of Public Administration (MPA). The joint degree pathway prepares graduate students for overlapping careers in criminal justice and public management. It is intended to prepare students for positions in public, private, and nonprofit organizations that require both criminal justice and management knowledge. Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. Important criteria relating to the joint degree pathway are as follows:

1. Candidates in the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate in the application their intention to pursue the joint degree option. Students deciding to pursue the joint degree option after having been admitted to one program will indicate this intention only on their second application.
2. Applicants for a joint degree pathway will not be accepted from candidates who have already completed either degree. MSCJ or MPA students must apply and be admitted by no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first-degree program requirements as if the student had never been a joint degree pathway candidate.
4. The joint degree pathway requires a total of 60 credit hours. Candidates must complete 14 core courses included in the MSCJ and MPA programs (42 credits) and 6 electives (18 credits). A minimum of 2 electives must be taken within the CCJ and 2 electives in PA.

Doctor of Philosophy in International Crime and Justice

The PhD program in International Crime and Justice focuses on international areas of study within the criminology and criminal justice field.

Admission Standards

To be considered for admission to the doctoral program, applicants must fulfill these minimum requirements:

1. A bachelor's degree from an accredited institution.
2. A GPA of 3.2 or higher in upper division coursework or a 3.2 or higher for all master's degree coursework.
3. Graduate Record Exam (GRE) All sections of the exam must be taken within the last five years.
4. Grade of "B" or better in an undergraduate or graduate research methods course.
5. Two letters of recommendation form professors or employers familiar with your academic and professional qualifications.
6. A 300- to 500-word statement that describes the student's interests in pursuing an advanced degree in international crime and justice, including any specific research interests, as well as your ultimate career goals.
7. Completed research paper or thesis that demonstrates writing skills.
8. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language

(TOEFL) or for the International English Language Testing System (IELTS). Minimum required scores is 550 on the paper-based TOEFL, 80 on the internet-based TOEFL (iBT) or 6.5 overall on the IELTS.

Graduation Requirements

The Ph.D. in International Crime and Justice requires a minimum of 75 credits hours of graduate course work beyond the bachelor's degree, including a comprehensive exam and dissertation based on the student's original research. A maximum of 36 credits are transferrable from a completed master's degree program with the approval of the graduate director. A minimum of 30 credit hours must be earned in academic courses that are part of the doctoral program (excludes, comprehensive exam and dissertation credits). Doctoral programs normally include courses at the 6000 level and above. Courses at the 5000 level may be included in a doctoral degree program in appropriate cases. A cumulative GPA of 3.0 or higher is required for graduation. All program requirements, including the dissertation, must be approved by the University Graduate School.

Award of M.S. en route to Ph. D.: Students directly admitted into the Ph.D. program may apply to be awarded the M.S. degree in Criminal Justice. To be eligible students must have completed all degree requirements of the M.S. in Criminal Justice.

Required Courses (30)

CCJ 6025	Criminological Theory	3
CCJ 6705	Research Methods in Criminal Justice	3
CCJ 6706	Data Analysis in Criminal Justice	3
CCJ 6741	Advanced Data Analysis in Criminal Justice	3
CCJ 6079	Geospatial Crime Analysis	3
CCJ 6485	Criminal Justice Policy Analysis	3
CCJ 6040	Comparative Crime and Criminal Justice Systems	3
CCJ 6675	Applied Research on Human Rights and Rule of Law	3
CCJ 6676	Transnational Crime and National Security	3
CCJ 6926	Teaching Methods and Strategies.	3

Research Tools Requirement (9): Classes that may satisfy the research tools requirement include quantitative analysis, legal research, grant writing, qualitative research methods, program evaluation and performance measures, survey research and design, and secondary analysis. This listing is not intended to be exhaustive. Approval of the research tools by the graduate director is required.

International Crime and Justice Electives (9 credits)

Students must complete 9 credits from the following list:

CCJ 6047	International Criminal Justice	3
CCJ 6620	Immigration and Crime	3
CCJ 6696	Human Trafficking	3
CJE 6025	Comparative Policing	3
DSC 6020	Terrorism and Homeland Security	3

Other course approved by the graduate director.

General Electives (9 credits)

Any courses taken outside of criminology and criminal justice must be approved by the Graduate Director.

Comprehensive Exam and Dissertation (18)

CCJ 7960	Comprehensive Exam	3
CCJ 7980	Ph.D. Dissertation	15

Course Descriptions

Definition of Prefixes

CCJ-Criminology and Criminal Justice; CJC-Corrections; CJE-Law Enforcement; CJJ-Juveniles; CJL-Law and Process; DSC-Domestic Security

CCJ 5669 Minorities in Justice Administration (3). This course focuses on current research and theories of racial, ethnic, and gender discrimination within America's criminal justice system.

CCJ 6025 Criminological Theory (3). The study of theoretical and research issues related to the nature and causes of crime and the administration of justice.

CCJ 6040 Comparative Crime and Criminal Justice Systems (3). This course provides a cross-national survey of crime and criminal justice. Emphasis will be on crime rates, forms of criminality, police, courts, and corrections.

CCJ 6047 International Criminal Justice (3). A study of international crimes, international criminal tribunals, and the prosecution and punishment of persons alleged to have committed international crimes.

CCJ 6056 History of the American Criminal Justice System (3). Focuses on the history and evolution of the American criminal justice system.

CCJ 6079 Geospatial Crime Analysis (3). Exploration and examination of patterns of crime through a geographical lens using the Geographic Information System (GIS) software.

CCJ 6362 Death Penalty (3). This course examines legal, empirical, and policy issues related to the death penalty in the United States.

CCJ 6485 Criminal Justice Policy Analysis (3). An overview of the formation, implementation, quantitative and qualitative evaluation, and ethical aspects of policy making in the criminal justice system. Prerequisite: 15 criminal justice graduate credit hours.

CCJ 6486 The Global Search for Justice and Legitimate Policing (3). Analyzes different paths that democratic societies across the globe have pursued to promote greater justice in police-citizen interactions in order to develop more legitimate police agencies.

CCJ 6489 Ethics in Criminal Justice (3). This course is designed to introduce students to ethical decision-making in the criminal justice system.

CCJ 6620 Immigration and Crime (3). This course explores the relationship between immigration and crime and the nature and extent of crime in immigrant communities.

CCJ 6635 Biosocial Criminology (3). Overview of current thinking, research, and debate centered on the overlapping role that genes, biology, the brain, and environmental factors play in the commission of violent and antisocial behavior.

CCJ 6665 Victimology and the Criminal Justice System (3). An examination of the relationship between victims and offenders and the manner in which the criminal justice system responds to victims of crime.

CCJ 6675 Applied Research on Human Rights and Rule of Law (3). Students will develop a greater understanding of pressing human rights problems and how to define and study them, design programs to address them, monitor program implementation, and measure impact.

CCJ 6676 Transnational Crime and National Security (3). Examination of the nature of transnational crime and the manner in which it relates to national security.

CCJ 6696 Human Trafficking (3). An investigation of the origins and current trends in the trafficking of humans for profit.

CCJ 6705 Research Methods in Criminal Justice (3). An intensive introduction to the methods used in criminal justice research.

CCJ 6706 Data Analysis in Criminal Justice (3). An applied introduction to multivariate statistical analysis in criminal justice research.

CCJ 6741 Advanced Data Analysis in Criminal Justice (3). An applied introduction to longitudinal analysis in criminal justice research. Prerequisite: CCJ 6706.

CCJ 6915 Supervised Research (1-3). Graduate students engage in criminal justice research under the direction of a faculty member. May be repeated for credit. Prerequisites: CCJ 6705, CCJ 6706.

CCJ 6926 Teaching Methods and Strategies. (3). Introduces students to effective pedagogical, teaching, and learning strategies used across the higher education continuum. Prerequisite: 18 graduate credit hours in criminal justice.

CCJ 6935 Special Topics (3). An intensive analysis of a particular topic in criminal justice. May be repeated for different topics.

CCJ 6946 Internship Program (0-6). Provides graduate student with the opportunity to gain work experience in an organization. Prerequisite: Student must have a minimum of 3.0 GPA.

CCJ 7960 Comprehensive Exam (3-9). Completion of a research study suitable for submission to an academic journal, including an oral presentation and defense (pass/fail grading). Corequisite: Completion of all required coursework.

CCJ 7980 Ph.D. Dissertation (1-12). Supervised research on an original research project submitted in partial fulfillment of doctoral degree requirements, including an oral presentation and defense (pass/fail grading). Prerequisites: CCJ 7960

CJC Seminar in Corrections (3). Examines history of corrections in America, philosophies behind correctional usage, techniques and services used for punishment and rehabilitation, and current trends and statistics.

CJE 5024 Violent Crime & Criminal Behavior (3). This course deals with violent criminal behavior and the criminal justice system's reaction to violence.

CJE 6025 Comparative Policing (3). An examination of key police systems across the globe with a focus on rule-of-law policing. Emphasis will be on how police agencies differ in their organization, administration, and procedures.

CJE 6446 Seminar on Crime Prevention (3). An in depth study of current approaches and practices in crime prevention, historical trends, and the future of crime prevention policy and practice.

CJE 6628 Cold Case Investigation (3). Covers best practice cold case investigation techniques and discusses resources available to investigators.

CJE 6695 Cybercrime (3). Examines criminality in online environments, including hacking, online identity theft, fraud, terror, trade in illicit substances/items, sexual crimes, and responses to cyber criminality.

CJE 6708 Efficacy of Forensics in Investigations (3). Discussion of forensic evidence efficacy, issues facing evidence collection and examination, use of forensic evidence in the investigative process, and courtroom challenges.

CJE 6716 Law Enforcement Practicum (3-6). Combines classroom instruction with specialized police training and workplace experience to produce successful law enforcement professionals and future leaders in the field.

CJJ 6040 Juvenile Justice Administration and Policy Analysis (3). This course is designed to provide students with an understanding of the juvenile justice system administration and the various cases and legislative initiatives that have affected juvenile justice.

CJL 6418 Law and Social Control (3). This course examines law as an instrument of social control. It explores the effectiveness of law in controlling criminal behavior and its impact on the criminal justice system.

CJL 6421 Legal Issues in Criminal Justice Administration (3). This course examines diverse and frequently debated legal topics from both legal and sociological perspectives.

CJL 6522 Courts and Sentencing (3). Examines the role of criminal courts in the administration of justice, with a special focus on contemporary research and theory about courtroom decision making.

DSC 6020 Terrorism and Homeland Security (3). This course focuses on the domestic and international threats of terrorism and the basic security issues that surround terrorism today.

Economics

Mihaela Pintea, Associate *Professor and Chairperson*
Berrak Bahadir, *Associate Professor*
Mahadev G. Bhat, *Professor (joint appointment with Earth and Environment)*
Prasad V. Bidarkota, *Associate Professor*
John H. Boyd III, *Associate Professor*
Jesse L. Bull, *Associate Professor*
Joel D. Carton, *Associate Teaching Professor*
Alvin Chiang, *Assistant Teaching Professor*
Irma de Alonso, *Professor Emeritus*
Ji Gu, *Assistant Teaching Professor*
Sheng Guo, *Associate Teaching Professor*
***Cem Karayalcin**, Professor*
Panagis S. Liossatos, *Professor Emeritus*
Norihiko Matsuda, *Assistant Professor*
Kaz Miyagiwa, *Professor and Graduate Program Director*
Pallab Mozumder, *Professor (joint appointment with Earth and Environment)*
Tobias Pfutze, *Associate Professor*
Alfonso Rodriguez, *Associate Teaching Professor*
Abu Shonchoy, *Associate Professor*
Mira Wilkins, *Professor Emeritus*
Maria F. Willumsen, *Professor Emeritus*
Demet Yilmazkuday, *Associate Teaching Professor and Undergraduate Program Director*
Hakan Yilmazkuday, *Professor and Program Director for Research, Reputation, and Communication*

The Department of Economics has a group of faculty who are interested in a variety of applied and theoretical topics. The graduate programs in Economics place strong emphasis on exploiting synergies between fields such as international economics, industrial organization, and technological change, and development economics (including Latin American and Caribbean studies as well as regional development problems). Issues are analyzed using modern economic tools from fields such as econometrics, game theory, and economic dynamics. While these are the department's areas of greatest emphasis, graduate course work in other fields can also be undertaken. The department's graduate programs are further enhanced by the presence of complementary graduate programs in the Green School, College of Arts and Sciences, College of Business, the Robert Stempel College of Public Health and Social Work, and the Kimberly Green Latin American and Caribbean Center.

The Master's Program provides additional training in economics beyond the undergraduate degree. It provides a degree of expertise that would not be obtained in an undergraduate education. This additional expertise enhances your prospects for a successful career in the private sector, and in governmental or international agencies.

The objective of the Doctoral Program is to offer advanced training in economic analysis. It provides an excellent background for a professional career at academic institutions, in the private sector, or in governmental and international agencies.

Master of Arts in Economics

To be admitted into the Master's degree program in Economics, a student must meet the University's graduate admission requirements and:

1. Have a Bachelor's Degree from an accredited institution.
2. Have a 'B' average (3.0) or higher during the last two years of undergraduate studies, and submit official Graduate Record Examination (GRE) scores. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
3. Receive approval of the departmental graduate committee.
4. Have taken as prerequisites Statistics and Calculus I. Students who have not fulfilled all these prerequisites may be admitted on a provisional basis. Unless specifically exempted, such students must take these courses as required, obtaining no credit for them in the program.

Master's Tracks

The Department of Economics offers two tracks: A general economics track, and a track specializing in applied economics. Although the general requirements are the same for both tracks, students opting to follow the applied economics track must write a Master's Thesis, take a fourth core course, and include four of the applied track courses listed below among their electives. The applied track courses are also open to students following the general economics track.

Degree Requirements

The Master's degree program will consist of 30 semester hours of course work, at a graduate level (course numbers 5000 or above). A maximum of six semester hours may be transferred into the program subject to the approval of the graduate committee. All courses listed below carry 3 credits, except the thesis (6 credits). The specific requirements are:

Core Courses

All Master's students must take the following seven courses

ECO 6112	Fundamentals of Microeconomic Theory	3
ECO 6204	Fundamentals of Macroeconomic Theory	3
ECO 6174	Microeconomics I	3
ECO 6019	Macroeconomics I	3
ECO 6405	Mathematical Economics	3
ECO 6420	Econometrics I	3
ECO 6425	Econometric II	3

Research Requirements: (3-6 credits)

Students must either write a thesis for 6 credits (ECO 6971), or take an advanced course in applied economics (7000-level or approved by the Graduate Director) which involves writing a research paper (3 credits).

Electives: (3-6 credits)

A student must take at least one elective in advanced field in economics. The additional course required to complete the Master's program may be taken in Mathematics,

International Studies, Social Work, Criminal Justice, Public Administration, the College of Business Administration, or in the other college or schools of the University. The graduate director must approve courses taken outside the department. ECP 6705 and ECP 6432 do not count as electives.

Additional Applied Track Courses

An M.A. student wishing to follow the applied economics track will be required to take, in addition to the three core courses above, a fourth core course:

ECO 6416	Applied Quantitative Methods in Economics	3

Applied track students must choose their remaining four electives from the following courses:

ECP 6305	Advanced Environmental Economics	3
ECS 5027	Economics of Emerging Nations	3
ECP 5704	International Economic Problems and Policy	3
ECO 6225	Economics of Asset Markets	3
ECO 7236	Money, Banking and Monetary Policy	3

Graduation Requirements

To receive the Master's degree in Economics, the student must complete 30 hours of course work with a 'B' (3.0) average or higher; and must receive a grade of 'C' or higher in each course. If the student decides to write a thesis, he/she must receive the grade of 'P'(pass) for ECO 6971.

Combined BA/MA in Economics Pathway

The Combined Bachelor of Arts/Master of Arts (BA/MA) in Economics pathway is designed for outstanding undergraduate students. It provides a strong base of knowledge and skills in economics, and at the same time accelerates completion of the Master of Arts degree. Students may take advantage of the overlap of courses in the BA and MA pathway to receive their MA degree in a shorter period than it would otherwise be possible.

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

The BA program in economics requires that students take 9 upper division elective courses. Students in the BA/MA program would take elective courses that would satisfy both the BA and MA requirement.

To apply their GPA needs to be significantly above average (3.25). Students would also be required to maintain a high GPA (3.0) to remain in the pathway. The grade requirements for an MA in economics would apply to courses that are counted toward the MA degree.

Admission Requirements

1. Current enrollment in the Bachelor's degree program in economics at FIU.
2. Completed Calculus I (MAC 2311) or equivalents.
3. Current GPA of 3.25 or higher.
4. Three letters of recommendation.
5. Approval of the Graduate Committee.
6. Official GRE scores.

General Requirements

Meet the requirements of both the BA and the MA degree in economics.

Overlap: Up to 4 courses (12 credits) may be used in satisfying ***both*** the Bachelor's and Master's degree requirements in economics.

Doctor of Philosophy in Economics

The admission requirements to the Ph.D. program in Economics are:

1. Have a Bachelor's Degree from an accredited institution.
2. A minimum GPA of 3.0 for the last two years of undergraduate education and submit official Graduate Record Examination (GRE) scores. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
3. Three letters of recommendation, using the form provided by the Department, from people in a position to judge the applicant's suitability for graduate studies in economics.
4. Receive approval of the departmental graduate committee.
5. Completion of the following courses at the undergraduate level: statistics, two semesters of calculus, and a semester of linear algebra. Unless exempted, the student must take these courses as required, obtaining no graduate credit for them in the program.

The GRE and GPA stated above are minimum requirements. All applications are reviewed by the Graduate Studies Committee, which makes the final admission decisions. Since admission to the program is competitive, the committee's requirements are normally higher than the minimum standards. Meeting the minimum requirements does not guarantee admission.

Degree Requirements

To obtain the Ph.D. in Economics, students must complete the required course work and fulfill dissertation requirements.

Ph.D. students who have satisfied the requirements for the Master's degree are eligible to receive the Master's degree. Ph.D. students who have satisfied the Master's degree requirements should consult with the Graduate Program Director about the necessary paperwork and

procedure to receive the Master's degree in the course of their Ph.D. studies.

Coursework Requirements

Students must complete 42 hours (14 courses) of graduate level course work. Supervised research, independent study, seminars, and dissertation credit do not count towards this objective.

This required minimum of 14 courses consists of ten courses in the Core and four field courses.

No credit toward a graduate degree is given for any course in which a grade of 'C' or less is obtained. A graduate student who receives a grade lower than 'B-' in a course must retake that course; if a retake also results in a grade lower than 'B-', the student will not be permitted to continue in the Ph.D. Program. A graduate student who receives a grade lower than 'B-' in more than two courses will not be allowed to stay in the Economics Ph.D. Program.

Students are required to maintain a minimum GPA of 3.0 (of 4) in their coursework.

Core Courses

ECO 6112	Fundamentals of Microeconomic Theory	3
ECO 7115	Microeconomic Theory I	3
ECO 7116	Microeconomic Theory II	3
ECO 6204	Fundamentals of Macroeconomic Theory	3
ECO 7206	Macroeconomic Theory I	3
ECO 7207	Macroeconomic Theory II	3
ECO 7405	Mathematical Methods in Economic Analysis I	3
ECO 7424	Econometric Methods I	3
ECO 7425	Econometric Methods II	3
ECO 7426	Econometrics III	3

Core Study

During the first four semesters, students are required to take courses which include the ten core courses listed above. Following the second semester, students are required to pass a comprehensive qualifying examination on core theory—(ECO 6112, ECO 7115, ECO 6204, ECO 7206). A student who fails twice will not be allowed to remain in the program. A student must receive at least a 'B' (3.0) average in the first four courses in order to participate in the comprehensive core theory qualifying examination.

Field Study

During the fourth and fifth semesters, students will complete course work in four field courses. Students must write a field paper. The field paper must be completed, presented in a workshop, and accepted by the student's field paper committee by the end of the third year. Students who fail twice their field requirements will not be allowed to continue in that field.

Dissertation Work

Upon completion of field paper requirement, students will be required to choose a specific area of doctoral research. During this phase, which will normally have a total length of two years, the student will:

a. Conduct research and complete a dissertation
b. Continue taking courses to complete a minimum of 15 credits of Advanced Workshop and 18 credits of dissertation.
c. Attend Advanced Workshops by enrolling in ECO 7925 in the dissertation area and present at least one paper a year on the work in that workshop.

Students will normally be required to be enrolled as fulltime students at the University for at least a year during the dissertation period. Except under abnormal circumstances, the maximum number of years during which a student may do dissertation work is five years.

Graduation Requirements

To graduate, students must complete all course requirements; fulfill workshop presentation requirements, pass the comprehensive examination and have their field paper accepted, and complete the oral defense and acceptance of the Ph.D. dissertation.

Course Descriptions

Definition of Prefixes

ECO-Economics; ECP-Economic Problems and Policy; ECS-Economic Systems and Development.
F-Fall semester offering; S-Spring semester offering; SS Summer semester offering.

ECO 5206 Economics of Asia (3). Overview of the opportunities and challenges presented by the Asian-Pacific economies.

ECO 5709 The World Economy (3). Designed to give an overview of the crucial issues in the world economy. The course covers trade, capital, labor, and technology flows; transnational economic organizations; current economic crisis; global economic interdependence; and the nature and characteristics of international economic order. Required for MIB Program. (S)

ECO 5735 Multinational Corporations (3). Economic theory and multinational corporations. Economic effects. Consequences of nationalization. Spread of the multinational form. State-owned multinational corporations. Prerequisite: Permission of the instructor for undergraduates. (S)

ECO 5906 Advanced Individual Study (1-6). Supervised readings, individual tutorial, and preparation of report. Requires consent of faculty supervisor and Department Chairperson. Open to seniors and graduate students.

ECO 5945 Internship (3). Directed individual study which assists the student in using economic analysis in his employment. Prerequisite: Permission of the chair.

ECO 6019 Macroeconomics I (3). Advanced macroeconomic analysis of income, employment, prices, interest rates and economic growth rates. Prerequisite: ECO 6204 or equivalent; Calculus I

ECO 6076 Teaching Economics (1). This course, required of all graduate assistants, is designed to introduce students to the pedagogical and practical aspects of teaching economics. It is coordinated with the Academy for the Art of Teaching.

ECO 6112 Fundamentals of Microeconomic Theory (3). Consumer theory, producer theory and the introduction of

uncertainty and dynamics. Market equilibrium and welfare properties of perfect competition and monopoly. Public goods and externalities. Prerequisites: One semester of Calculus and Statistics.

ECO 6174 Microeconomics I (3). Microeconomic behavior of consumers, producers, and resource suppliers, price determination in output and factor markets, general market equilibrium. Prerequisite: ECO 6112 or equivalent, Calculus I

ECO 6204 Fundamentals of Macroeconomic Theory (3). Consumption, investment and growth; equity premium puzzle; taxation and social security; monetary policy rules, currency and inflation; the IS-LM model; real business cycles and models with nominal rigidities. Prerequisites: Calculus and Statistics.

ECO 6225 Economics of Asset Markets (3). Economic analysis of the asset markets; risk, return and intertemporal choice; mean variance analysis; asset pricing models and properties of asset returns; market efficiency and market anomalies. Prerequisites: Calculus or permission of the instructor.

ECO 6405 Mathematical Economics (3). Introduces the use of mathematical economic models, equilibrium analysis, linear algebra, comparative static analysis, optimization problems, and dynamic problems. Prerequisite: ECO 3101 and ECO 3203. or equivalents: Calculus I

ECO 6416 Applied Quantitative Methods in Economics (3). Types of economic data; the WWW as a tool for data collection; database construction and maintenance; use of statistical software for graphical and descriptive methods; large sample inference for one population mean vector; introduction to economic time series and regression models. Prerequisites: One semester of Calculus and Statistics or permission of the instructor.

ECO 6420 Econometrics I (3). An introduction to econometric methods focusing on the statistical foundation for estimation and inference in the classical regression model. Prerequisite: ECO 4410 or equivalent, Calculus I.

ECO 6425 Econometrics II (3). Introduces advanced concepts and methods employed in empirical economic analysis. Examines logit, probit, tobit, and categorical dependent variable models. Examines estimation of economic panel data. Prerequisite: ECO 6420.

ECO 6705 International Trade for Global Governance I (3). Designed for MA students in the Global Governance program, the course provides an introduction to the modern theory and application of the economics of international trade. Prerequisite: ECO 6025.

ECO 6716 International Macroeconomics for Global Governance (3). Designed for MA students in the Global Governance program, the course provides an introduction to the modern theory and applications of international macroeconomics. Prerequisite: ECO 6025.

ECO 6936 Special Topics (3). A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

ECO 6938 Individual Graduate Study (3-9). Supervised readings, tutorial, and preparation of report. Open only to graduate students. Requires consent of supervisor and approval of Department Chairperson.

ECO 6939 Advanced Seminar in Applied Economics (3). Variable-topic study group in application of economic analysis to specific problems. Open to seniors and graduate students. (S)

ECO 6971 Thesis (1-6). Writing and completion of thesis by candidate for a Master of Arts. Prerequisites: Student must be a Master's degree candidate, have had at least 15 hours of graduate work in economics; have a thesis topic approved by the Department's Graduate Committee and permission from the instructor.

ECO 7110 Industrial Organization: Firms (3). Theoretical and empirical analysis of firm organization and development. Topics include entrepreneurship, firm survival and evolution, spinoffs, industrial geography and dynamics. Prerequisites: ECO 6112 (or equivalent), ECO 7405 (or equivalent), and ECO 7424 (or equivalent).

ECO 7115 Microeconomic Theory I (3). Game theory. Analysis of static and dynamic games of complete and incomplete information. Introduction to contracts and mechanism design. Prerequisites: ECO 3101 or equivalent, Calculus I; Calculus II recommended. (F)

ECO 7116 Microeconomic Theory II (3). The General equilibrium and welfare economics. Economics of uncertainty. Economic dynamics including capital accumulation, optimal growth, and dynamic equilibrium. Uncertainty and incomplete markets. Prerequisites: ECO 7115 and ECO 7405. (S)

ECO 7118 Graduate Seminar in Economic Theory (3). Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

ECO 7135 Growth, Distribution and Prices (3). Alternative theories of growth, income distribution and prices. Basic growth models; neoclassical capital theory and Cambridge controversies; neo/Marxian, neo-Keynesian and other approaches. Prerequisites: ECO 7116, ECO 7207, ECO 7405.

ECO 7136 Classical and Marxian Economic Theory (3). Classical and Marxian theories of value and capital in a mathematical mode. The Transformation Problem. Simple and expanded reproduction. The falling rate of profit and other Marxian crises. Prerequisites: ECO 7115, ECO 7206, ECO 7405, ECO 7116.

ECO 7206 Macroeconomic Theory I (3). Analysis of macroeconomic models of income determination and the price level, microeconomic foundations of macro-behavior, macroeconometric models, and basic open economy macroeconomics. Prerequisites: ECO 3203, ECO 4410, or equivalents; Calculus I; Calculus II recommended. (F)

ECO 7207 Macroeconomic Theory II (3). Alternative approaches to macroeconomic theory. Business cycle theories and theories of growth and income distribution. Prerequisites: ECO 7115, ECO 7206, ECO 7405.

ECO 7216 Monetary Theory and Policy (3). Relationship of money supply and interest rate to economic stabilization. Consideration of federal reserve system, money market, and factors determining money supply and demand. Neo-Keynesian, Chicago, and radical policy views.

ECO 7236 Money, Banking, and Monetary Policy (3). Monetary theory and its application. Consideration of central banking in the U.S. and its relation to the international economy, money markets, and financial intermediaries. Survey of current policy views.

ECO 7305 History of Economic Thought (3). Exploration of the evolution of economic thought and analysis in the changing socio/historical, institutional and political setting in which it takes place. Prerequisite: Permission of the instructor. (S)

ECO 7405 Mathematical Methods in Economic Analysis I (3). Application of mathematical methods to economics. The topics and tools of mathematical economics are presented in a rigorous fashion within an economic context. Prerequisites: Calculus I, ECO 3101 and ECO 3203, or equivalents. (F)

ECO 7406 Mathematical Methods in Economic Analysis II (3). Selected topics in dynamic optimization and related topics, focusing on applications to economic problems and covering modeling in both continuous and discrete time. Prerequisites: ECO 6112, ECO 6204, ECO 7405.

ECO 7408 Industrial Organization: Markets (3). Analysis of the structure, behavior, and performance of industries and markets, and core issues in competition and regulatory policy. Prerequisites: ECO 6112 (or equivalent), ECO 7405 (or equivalent).

ECO 7424 Econometric Methods I (3). Formulation, estimation, evaluation of econometric models. Includes: review probability theory, OLS, properties of estimators, asymptotics, hypothesis tests, violations of classical assumptions, IV. Prerequisites: MAS 3105, ECO 7405. (S)

ECO 7425 Econometric Methods II (3). Builds on ECO 7424. Advanced single equation estimation, numerical estimation, maximum likelihood, GMM, test procedures, non-linear models, systems of equations, and simultaneous equations models. Prerequisite: ECO 7424. (F)

ECO 7426 Econometrics III (3). Continuation of ECO 7425. Topics include multivariate models, times series models, panel data models, test procedures and model selection. Prerequisite: ECO 7425.

ECO 7429 Topics in Econometrics (3). Selected topics in econometrics. Intended to acquaint students with current research in the field. Material covered will vary from year to year with instructor. Prerequisites: ECO 7424 and ECO 7425.

ECO 7505 Public Finance (3). Partial and general equilibrium analysis of tax incidence efficiency, public goods, public pricing problems, the social rate of discount, and non-market decision making.

ECO 7617 Seminar in Economic History (3). Topics in economic history, exploration of the economic history literature on a selected theme, student presentations. Prerequisite: Permission of the instructor for undergraduates.

ECO 7705 International Trade (3). Positive and normative aspects of international trade. Theories of comparative advantage, commercial policy, trade and income distribution. Prerequisites: Advanced Microeconomic Theory; Calculus. (F)

ECO 7716 International Money (3). Theory of international monetary equilibrium. Problems of international payments and exchange rate control; their effect on international monetary problems. Analysis of short and long term monetary flows and macroeconomic adjustment. Prerequisites: Advanced Macroeconomics and Calculus. (S)

ECO 7717 Applied International Economics (3). Empirical international finance and international trade. Includes national accounts, exchange rates, dynamic stochastic general equilibrium models, variable markups, and gravity type methodologies. Prerequisites: ECO 7115, ECO 7206, ECO 7705, ECO 7716.

ECO 7925 Advanced Workshop (3). Enables students to attend advanced workshop presentations and to present the results of their own research. Prerequisite: Completion of field examination requirements. (F,S)

ECO 7980 Ph.D. Dissertation (1-12). To be taken every semester for research on, and writing of Ph.D. dissertation by candidates for the Ph.D. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

ECP 5707 International Economic Problems & Policy (3). International trade and comparative advantage; commercial policy; foreign exchange markets; balance of payments; issues in trade & development. Prerequisites: ECO 2013 or ECO 3011, and ECO 2023 or ECO 3021.

ECP 6305 Advanced Environmental Economics (3). Economics of environmental pollution; theories of exhaustible and renewable resource extraction; issues in environmental valuation and policies. Prerequisites: ECP 3101 and ECP 3302 or ECP 4314 or permission of the instructor.

ECP 6432 Macroeconomic Forecasting for Management (3). Basic macroeconomics concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6705. (F,S,SS)

ECP 6605 Urban and Regional Analysis (3). Application of economic analysis to urban growth and the urban/regional environment. Consideration of public services, transportation, ghetto problems, and urban organization. Analysis of environmental protection problems and policies. Recommended preparation: ECO 3101, ECO 3203 and ECP 3303.

ECP 6705 Managerial Economics (3). Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries. Recommended Preparation: Principles of Microeconomics and Calculus. Prerequisites: ECO 3021 and ECO 3011. (F,S,SS)

ECP 7035 Cost-Benefit Analysis (3). This course covers benefit-cost analysis, cost-effectiveness analysis, benefit risk analysis, risk-risk analysis, and systems analysis. All of these techniques are designed to provide guidance to decision makers, particularly in the government sector. Prerequisite: ECO 3101.

ECP 7205 Labor and Human Resources (3). Empirical and theoretical analysis of the factors determining employment and earnings, recent developments in the theory of labor supply, critiques of neoclassical theory, and current issues in public policy. Prerequisite: Calculus.

ECP 7405 Industrial Organization (3). The organization of the industrial economy with particular emphasis as to the type of competition, the bases of monopoly power and the extent of monopoly power. Prerequisites: Advanced Micro and Calculus.

ECP 7606 Urban and Regional Economics (3). The economics of urbanization processes, internal organization of cities, and regional settlement. Spatial growth models and spatial development planning. Prerequisites: ECO 7115, ECO 5205, ECS 4013 or equivalent; and ECO 6636. (F)

ECP 7636 Location Theory (3). Systematic exposition of urban and industrial location theory. Spatial price theory and spatial competition. Prerequisites: ECO 3101 or equivalent; Calculus I; Calculus II and ECO 7115 recommended. (S)

ECP 7706 Managerial Economics (3). Analysis of the economic decisions of firm managers, emphasizing the practical application of concepts to economic problem solving by managers, public administrators and other decision makers. Prerequisites: Ph.D. or advanced Masters.

ECS 5005 Comparative Economic Systems (3). A critical evaluation of the design, goals, and achievements of economic policies in capitalist and socialist economies. Prerequisite: Permission of the instructor for undergraduates.

ECS 5025 Economic Planning (3). Analysis of planning methods in capitalist and socialist economies. Evaluation of macro and micro economic planning tools (input-output) and programming techniques. Theory and practice of economic development planning of agriculture, industrialization, foreign trade, and manpower. Prerequisites: Graduate standing or permission of the instructor.

ECS 5027 Economic Development of Emerging Nations (3). Specific economic problems of emerging nations and national groupings. Basic approaches to economic development; major proposals for accelerating development. Role of planning. Trade, aid, and economic integration. (F)

ECS 5406 Latin American Economies (3). Economic theory and its applications to current economic issues of Latin America. Examines aggregate demand and supply, fiscal and monetary policies, international trade trends, and economic development. Taught in Spanish. May not be taken for credit towards a degree in Economics.

ECS 6015 Economic Development for Global Governance I (3). Designed for MA students in the Global Governance program, the course provides training in applied development economics. Prerequisite: ECO 6025.

ECS 6016 Economic Development for Global Governance II (3). Designed for MA students in the Global Governance program, the course provides training in applied development economics. Prerequisites: ECO 6025, ECS 6015.

ECS 6436 The Economics of Caribbean Migration (3). The course examines the economic causes and consequences of Caribbean immigration to the United States. Special emphasis on the effects of Caribbean migration on the United States economy.

ECS 7015 Development Economics: Theory (3). Analytical approaches to economic development. Analysis of macro models, specific resources and sectors, and trade and income distributional problems in relation to developing countries. Prerequisites: ECO 7115 and ECO 7116 or equivalents. (F)

ECS 7026 Development Economics: Planning and Policy (3). Planning and policy making in developing economies. Economy/wide planning models; project appraisal; financial, stabilization and trade policies. Prerequisites: ECO 7115, ECO 7116, and ECO 7405. (S)

ECS 7405 Economics of Latin America (3). Dependence, population explosion, urban migration, agricultural reform, industrialization and import substitution, common markets. Prerequisite: Permission of the instructor for undergraduates.

ECS 7435 Economics of the Caribbean (3). Macroeconomic assessment; income distribution, employment and migration; industrial and agricultural development; international trade, multinational and integration attempts. Prerequisite: Permission of the instructor.

ECS 7445 Economics of Central America (3). Recent economic events in the region dealing with institutional background and structure of current economic activities. Special emphasis on problems of growth, social transformation and economic integration. Prerequisite: Permission of the instructor. (F)

Global and Sociocultural Studies

Vrushali B. Patil, *Associate Professor and Chairperson*
Juliet S. Erazo, *Associate Professor and Associate Chairperson*
Aslihan Akkaya, *Associate Teaching Professor*
Simone Athayde, *Associate Professor*
Mitzi Carter, *Assistant Teaching Professor*
Young Rae Choi, *Assistant Professor*
Jorge Duany, *Professor and Director, Cuban Research Institute*
Chris S. Girard, *Associate Professor*
Ricardo M. Gonzalez, *Associate Teaching Professor*
Guillermo J. Grenier, *Professor*
Kevin Grove, *Associate Professor*
Gail M. Hollander, *Associate Professor*
A. Douglas Kincaid, *Associate Professor and Undergraduate Program Director*
Qing Lai, *Associate Professor and Graduate Program Director*
Katherine Lineberger, *Associate Teaching Professor*
Shearon A. Lowery, *Associate Professor*
Mathew David Marr, *Associate Professor*
Roderick P. Neumann, *Professor*
Ulrich Oslender, *Associate Professor*
Mark B. Padilla, *Professor*
Andrea J. Queeley, *Associate Professor*
Jean M. Rahier, *Professor*
Geneviève Reid*, Assistant Professor*
Sheilla Rodriguez-Madera, *Professor*
Derrick Scott, *Assistant Teaching Professor*
Benjamin N. Smith, *Associate Professor*
Richard S. Tardanico, *Associate Professor*
Nelson Varas-Diaz, *Professor*

Faculty Emeriti
Janet M. Chernela, *Professor Emerita*
Ralph S. Clem, *Professor Emeritus*
Stephen M. Fjellman, *Professor Emeritus*
Barry B. Levine, *Professor Emeritus*
Sarah J. Mahler, *Associate Professor Emeritus*
Anthony P. Maingot, *Professor Emeritus*
Betty Hearn Morrow, *Professor Emerita*
Alex Stepick III, *Professor Emeritus*
Dennis W. Wiedman, *Clinical Professor Emeritus*

The Department of Global and Sociocultural Studies – a core department in FIU's Steven J. Green School of International and Public Affairs – provides a unique opportunity to integrate the disciplinary approaches of anthropology, geography, and sociology with cross-disciplinary theorizing and research. The department's research and teaching revolve around three overlapping themes: identities and inequalities; migrations and diasporas; and nature-society. Utilizing comparative, transnational, diasporic, and global perspectives, the department's faculty and graduate students pursue these themes through a variety of qualitative, quantitative, and applied research methods.

The department's research and teaching themes reflect FIU's location in one of the world's most dynamic regions: the greater metropolitan area of Miami – a hemispheric crossroads of sociocultural, political, economic, and environmental forces, bridging the United States with the Caribbean and Latin America, the Atlantic region, and the world at large. In this setting, the department's inclusion within the Green School of International and Public Affairs affords students a wealth of research and associated opportunities through FIU's Kimberly Green Latin American and Caribbean Center; Program in African and African Diaspora Studies; Institute for Asian Studies; European Union Center; and Center for Labor Research and Studies, to name a few. The department maintains close relationships with its partner departments within the Green School of International and Public Affairs: Politics and International Relations, Public Administration, Religious Studies, and Criminal Justice. Joint faculty appointments and research-teaching collaborations link the department with the Department of Earth and Environment and the Women's Studies Center. The department also maintains close ties with the Department of History.

The graduate program in Global and Sociocultural Studies provides advanced training for myriad careers in higher education and in the government, non-profit, and corporate sectors.

Admission Process & Requirements

1. Application forms and fees:
   a) Admissions Office: **https://fiuonline.fiu.edu/admissions/international-students.php**
2. Please send to the University's Admission Office:
   a) Official transcripts from previous undergraduate and graduate programs. The minimum requirements are a cumulative grade point average of 3.2 in undergraduate courses and a cumulative grade point average of 3.5 in any prior graduate courses.
   b) Official GRE verbal and quantitative scores, sent directly by the Educational Testing Service.
   c) International graduate student applicants whose native language is not English: TOEFL or IELTS scores, sent directly by the Educational Testing Service. The minimum requirement is a total score 80 on the iBT TOEFL (equivalent to 550 on the paper-based version, or 213 on the computer-based version of TOEFL) or a total score of 6.5 on IELTS.
3. Additionally, please submit through the University's Admissions portal.
   a) Research Statement (maximum of three single-spaced pages): describing your research interests and a potential research project; prior research/academic experience; and GSS faculty members with whom you would like to work.
   b) Personal Statement (maximum of two single-spaced pages): describing your background, career goals and why you are interested in pursuing a graduate degree with GSS
   c) One or more writing samples: course papers, thesis chapters, or other examples of writing and analytical abilities.
   d) Unofficial (such as photocopied) copies of the academic transcripts, GRE scores, and TOEFL or IELTS scores.
4. Three letters of reference that comment on your potential for success in graduate studies and beyond.

5. Application Deadline: Students are admitted to begin the program in the fall semester only. The application deadline is February 1; January 1 to be considered for funding.

Financial Aid

Applicants to FIU may qualify for one of several different opportunities to finance their studies:

1. FIU's Presidential Fellowship for outstanding applicants, nominated by the Graduate Program Committee (see **http://www.fiu.edu/~ugs/financial.html**)
2. Departmental Teaching Assistantships (TAs). Teaching assistantships are allocated on a competitive basis and include a 12-month stipend, tuition waiver, and medical insurance. To be considered for an assistantship, the applicant must make such a request in writing to the Graduate Program Director ***prior to April 1***. The awarding of teaching assistantships will be made by the Graduate Program Committee. Students receiving an assistantship are required to perform approximately 20 hours of teaching related duties per week during the 12-month appointment. TA positions are renewable on a competitive basis by annual application.
3. There are innumerable additional sources of funding for graduate students best researched by applicants. A good start is the UGS website at **http://www.fiu.edu/~ugs/financial.html**.
4. Graduate students are routinely employed as research assistants (RA) on faculty grants. Students in their second or later years are particularly encouraged to seek RA positions to enhance their research skills and career options. The hiring of research assistants is at the discretion of the project's principal investigators. While these arrangements vary, they usually cover the student's tuition and provide a stipend.

Transfer of Credits

Credits may be transferred in accordance with the FIU Graduate Policies and Procedures Manual (consult **http://www.fiu.edu/~ugs/gpm**). While a student may transfer credits into the program, the substitution of transferred credits for specific core and substantive area requirements is not generally allowed. A student seeking to transfer credits must submit a written petition to the Graduate Program Director detailing the courses and hours of credit s/he is seeking to transfer. In addition, students requesting substitution of transferred credits for program requirements must include supporting documentation as part of the petition. The screening and initial decision regarding transferring of credit and substitution will be made by the Graduate Program Director and the Graduate Program Committee. Final approval will be made by the University Graduate School.

Master of Arts in Global and Sociocultural Studies (36 credits)

The M.A. program includes common core requirements but does not include disciplinary major track requirements. To remain in good academic standing and to qualify for graduation, students must maintain a minimum GPA of 3.0 and must receive a minimum grade of "B" in each common core required course.

Common Core Requirements (15 credits)
The core curriculum includes five required courses:

ISS 6346	Theory and Inquiry	3
ISS 6305	Research Methods and Design	3
ISS 6306	Writing Research Proposals	3

At least one theory course from the following:

ANG 6083	Theory in Anthropology	3
GEO 6118	Theory in Geography	3
SYA 6018	Theory in Sociology	3

At least one methods course from the following:*

ANG 6497	Qualitative Research Methods	3
ANT XXXX	Qualitative Data Analysis	3
SYA 6356	GIS and Social Research	3
SYA 6305	Research Methods I	3
SYA 6306	Research Methods II	3

* *Or another approved methods course.*

Electives (21 credits)
Seven elective courses*
*Includes a maximum of one directed studies course (3 credits) and two courses (6 credits) taken in other departments, as approved by the graduate director.

Master of Arts in Global and Sociocultural Studies- Applied Interdisciplinary Social Science Research Track

Common Core Requirements (24 credits)
All of the following (12 Credits):

ISS 6346	Theory and Inquiry	3
ISS 6305	Research Methods and Design	3
ISS 6317	Soc Res Quant Methods I	3
ISS 6XXX	Directed Research Project in Applied Interdisciplinary Social Science	3

At least one theory course from the following (3 credits):

ANG 6083	Theory in Anthropology	3
GEO 6118	Theory in Geography	3
SYA 6018	Theory in Sociology	3

At least three methods/research design courses from the following* (9 credits):

ANG 6480	Ethnohistorical Research Methods	3
ANG 6497	Qualitative Research Methods	3
GIS 5935	Topics in Geographic Information Systems	3
ISS 6306	Writing Research Proposals	3
SYA 5357	Graduate GIS and Latin American Societies	3
SYA 6317	Social Research Quantitative Methods II	3
SYA 6356	GIS and Social Research	3
SYA 6452	Topics in GIS and Social Research	3

* Or other methods/research design courses inside or outside GSS, if approved by the Graduate Program Director.

Four elective courses Electives (12 credits)
** **Includes a maximum of one directed studies course (3 credits) or 3 additional hours of ISS 6XXX Directed

Research Project in Applied Interdisciplinary Social Science.

Doctor of Philosophy in Global and Sociocultural Studies

The Ph.D. in Global and Sociocultural Studies is an innovative interdisciplinary degree which combines the theories and practices of three key social science disciplines; geography, sociocultural anthropology, and sociology. All students receive interdisciplinary training and the opportunity to focus their coursework and dissertation research in one of the three disciplines. Of the minimum 75 semester hours required for the doctoral degree, 12 comprise the interdisciplinary core, 33 the major discipline, and 30 the electives inside and outside the Department of Global and Sociocultural Studies.

Admissions

Applicants are reviewed only in the spring term for fall admission. Admissions to the Ph.D. program are competitive. Meeting minimum requirements does not guarantee admission. See the Admissions Process & Requirements for the GSS Graduate Program for full details. Students who originally applied to the M.A. program must apply separately to be admitted into the Ph.D. program. A positive evaluation of the student's performance at the M.A. level (hereafter called the M.A. review) will be the most important of the factors considered in evaluating applications to the Ph.D. program. All students, including those who originally applied directly to the Ph.D. program, must undergo a successful M.A. review upon completion of the Masters Program requirements in order to continue toward the Ph.D. The Graduate Committee conducts these reviews. The purpose of the M.A. review is to determine the ability of the student to do Ph.D. level work with the department's faculty. Among the information considered during the review are students' performance and grades in courses and faculty recommendations.

Students who have obtained a Masters degree at another institution may be admitted directly into the Ph.D. program, but first must undergo the equivalent of the M.A. review.

The Ph.D. Degree Requirements

The Ph.D. program consists of 75 semester hours of course work (including the 36 hours a student may have earned in the Department's M.A. program). Students acquire competencies in theory, methods and proposal writing during the first two years of the Ph.D. program by successfully completing a common interdisciplinary core curriculum of 12 hours of coursework.

In addition to the common core curriculum, each Ph.D. program student declares a major in Geography, Sociocultural Anthropology, or Sociology. Each major consists of the corresponding disciplinary theory course; one additional theory course from the other departmental disciplines; one approved methods course; a minimum of two discipline-based seminars; and a dissertation supervised by a faculty member from the department. A student may declare only one major. As students progress through the program, they increasingly pursue their own research interests by taking elective courses across the disciplines and by working with their committee to prepare a doctoral dissertation. A student takes a minimum of 30 hours of electives.

A grade of "B" or higher must be earned in all courses and a cumulative average of 3.0 or higher must be maintained. Students may apply to transfer a maximum of 6 graduate credit hours earned in another program or institution. An exception is made for courses contained within an earned master's or doctoral degree.

In the course of their studies, the student will have met the requirements for, and be awarded a M.A. in Global and Sociocultural Studies

A student should complete the Ph.D. General Exam and defend their Dissertation Proposal by the end of their third year of study. Then the student prepares a dissertation under the guidance of a faculty committee and defends the dissertation.

Core Courses (12 credits)

ISS 6346	Theory and Inquiry	3
ISS 6305	Research Methods and Design	3
ISS 6306	Writing Research Proposals	3
ISS 6317	Social Research Quantitative Methods I	3

Geography Major

GEO 6118	Theory in Geography	3

One additional theory course taught within the department:

SYA 6018	Theory in Sociology	3
or		
ANG 6083	Theory in Anthropology	3

One additional methods course taught within the Department, for which GIS may be used. (3 credits) Choose from:

ANG 6480	Ethnohistorical Research Methods	3
ANG 6497	Qualitative Research Methods	3
GIS 5038	Remote Sensing	3
GIS 5935	Topics in Geographic Information Systems	3
SYA 5357	Graduate GIS and Latin American Societies	3
SYA 6317	Social Research Quantitative Methods II	3
SYA 6356	GIS and Social Research	3

Geography course electives (6 minimum)

At least 2 seminars drawn from the following list.

GEA 6409	Landscapes of Violence and Healing in the Americas	3
GEO 5415	Topics in Social Geography (may be repeated for credit)	3
GEO 5557	Globalization	3
GEO 6473	Space, Place and Identity	3
GEO 6478	Critical Geopolitics	3
GEO 6603	Cities and Regions in Global Perspective	3
GEO 5906	Directed Individual Studies	3
GIS 5038	Remote Sensing	3
GIS 5620	Surveillance, Intelligence, and International Relations	3
GIS 5935	Topics in Geographic Information Systems	3

Exam Prep (6 maximum)

GEO 7964	Preparation: Preliminary Doctoral Exam	6

Sociocultural Anthropology Major

ANG 6083	Theory in Anthropology	3

One additional theory course taught within the department:

SYA 6018	Theory in Sociology	3
or		
GEO 6118	Theory in Geography	3

One additional methods course taught within the Department, for which GIS may be used. (3 credits) Choose from:

ANG 6480	Ethnohistorical Research Methods	3
ANG 6497	Qualitative Research Methods	3
GIS 5038	Remote Sensing	3
GIS 5935	Topics in Geographic Information Systems	3
SYA 5357	Graduate GIS and Latin American Societies	3
SYA 6317	Social Research Quantitative Methods II	3
SYA 6356	GIS and Social Research	3

Anthropology course electives (6 minimum)

At least 2 seminars drawn from the following list.

ANG 5267	Environmental Anthropology	3
ANG 5396	Representations of Africa and Africans in Films	3
ANG 5397	Advanced African Diaspora Cultures and Performativity	3
ANG 6303	Comparative Feminisms	3
ANG 6339	Seminar on Latin America	3
ANG 6472	Anthropology of Globalization	3
ANG 6497	Qualitative Research Methods	3
ANT 6302	Gender Identity in Comparative Perspective	3
ANT 6319	The African Diaspora: Anthropological Perspectives	3
ANT 6469	Graduate Medical Anthropology	3
ANT 7491	Contemporary Theory in Social Anthropology	3

Exam Prep (6 maximum)

ANG 7964	Preparation: Preliminary Doctoral Exam	6

Dissertation (15 minimum)

ANG 7980	Ph.D. Dissertation	15

Sociology Major

SYA 6018	Sociocultural Theories A	3

One additional theory course taught within the department:

ANG 6083	Theory in Anthropology	3
or		
GEO 6118	Theory in Geography	3

One additional methods course taught within the Department, for which GIS may be used. (3 credits) Choose from:

ANG 6480	Ethnohistorical Research Methods	3
ANG 6497	Qualitative Research Methods	3
GIS 5038	Remote Sensing	3
GIS 5935	Topics in Geographic Information Systems	3
SYA 5357	Graduate GIS and Latin American Societies	3
SYA 6317	Social Research Quantitative Methods II	3
SYA 6356	GIS and Social Research	3

Sociology course electives (6 minimum)

At least 2 seminars drawn from the following list.

SYA 7205	Foundations of Social Theory Construction	3
SYA 5135	Sociology of Knowledge	3
SYA 6657	Evaluation of Organizations and Programs	3
SYA 6941	Internship in Applied Sociology	1-9
SYA 5357	Graduate GIS and Latin American Societies	3
SYA 6943	South Florida Area Study	3
SYA 7930	Special Topic in Comparative Sociological Research	3
SYA 7941	Field Research	1-9
SYG 6932	Special Topics in Disaster Studies	3
SYD 5045	Population and Society	3
SYD 5607	Advanced World Jewish Communities	3
SYD 5708	Advanced Race, Gender, Sexuality: Entanglements Across Time and Space	3
SYD 6236	International Migration and Refugees	3
SYD 6325	Seminar in the Comparative Sociology of Gender	3
SYD 6418	Graduate Seminar in Urban Sociology	3
SYD 6427	Seminar in Comparative Urban Issues	3
SYD 6615	Seminar in Comparative Analysis of Selected Regions	3
SYD 6625	South Florida Socio-cultural Systems	3
SYD 6626	Cuba Seminar	3
SYD 6655	Seminar on Social Change in Asia	3
SYD 6796	Sex, Race, and Power in Colonial Times	3
SYD 6816	Advanced Sociological Theories of Gender	3
SYO 6306	Political Sociology	3
SYO 6536	Comparative and Global Inequality	3
SYP 6457	Cities and Regions in Global Perspective	3
SYP 6907	Comparative and Global Change	3

Exam Prep (6 maximum)

SYA 7967	Preparation: Preliminary Doctoral Exam	6

Dissertation (15 minimum)

SYA 7980	Ph.D. Dissertation	15

General Electives (30)

Students will take 30 hours beyond the common core curriculum and the majors' requirements. This includes a maximum of one directed studies course (three hours). Students are allowed a maximum of two courses (six hours) taken in other departments. In some circumstances, such as the case of a student pursuing a graduate certificate, the Graduate Director may approve additional coursework outside of the department.

Ph.D. General Examination

After successfully completing the common core requirements, the major's course requirements, and electives, a student prepares for the Ph.D. General Exam. In preparation for the exam, a student forms a dissertation committee according to the regulations published on the University Graduate School web page (**http://gradschool.fiu.edu**). The Ph.D. General Exam addresses the student's anticipated dissertation topic, and is conducted according to the University Graduate Policies and Procedures Manual and the Department's Ph.D. General Exam guidelines.

Dissertation Proposal and Defense/Candidacy Exam

Concomitant with preparation for the Ph.D. General Exam, a student works under the guidance of the dissertation

committee to prepare a dissertation proposal and defend it orally before the committee. The chair of the dissertation committee must hold Dissertation Advisor Status from the University Graduate School. The proposal defense serves as the doctoral candidacy exam for the Ph.D. program in Global and Sociocultural Studies. Upon passing the proposal defense, a student is admitted to candidacy status.

The Dissertation and Dissertation Defense

After successfully defending a dissertation proposal, a student conducts the proposed research and completes a dissertation under the guidance of a dissertation committee. Only after successfully defending the dissertation proposal may a student register for dissertation hours (ANG 7980, GEO 7980, or SYA 7980). The Ph.D. program requires a student to be continuously enrolled in a minimum of 3 hours of Doctoral Dissertation each semester from the time of advancement to candidacy until completion of the dissertation, including summers. Upon completion of the dissertation manuscript and authorization by the committee, a student defends the dissertation before the committee and the University community. The University Graduate School's regulations governing the dissertation are described at **http://gradschool.fiu.edu**.

M.A. in African and African Diaspora Studies/Ph.D. in Global and Sociocultural Studies Combined Degree Pathway

The combined African & African Diaspora Studies MA/Global & Sociocultural Studies PhD pathway allows qualified graduate students to pursue both degrees at the same time. Students can develop an expertise in African & African Diaspora Studies while progressing toward a PhD in one of the three majors in the Global and Sociocultural Studies PhD: geography, sociology, or anthropology.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores;
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the internet-based TOEFL (equivalent to 550 on the paper-based version) or a 6.5 overall on the IELTS is required.

Admission Procedure

To be accepted into this pathway, students must submit an application to the PhD in Global and Sociocultural Studies with a sub-plan for a MA in African & African Diaspora Studies. This designation will appear in the menu of programs in the graduate application. To be accepted into this program, students must submit an application by January 1 in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the on-line application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable;
5. Statement of purpose explaining his/her interest for enrolling in both the AADS MA program and in the PhD program in GSS. The statement of purpose must clearly address the applicant's academic and professional objectives for enrolling in both fields of inquiry. The statement of purpose must also indicate the intended major (anthropology, geography, or sociology) the applicant plans to select while engaged in the PhD in GSS;
6. Three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability;
7. A curriculum vitae; and
8. Writing samples and other relevant professional work that may support their applications.

Degree Requirements for M.A. in African and African Diaspora Studies

The 30-credit, one year, three semester program occurring over Fall, Spring, and Summer includes 9 credits of core AADS courses, which includes 3 credits for the directed research paper exit option, 9 credits of core International Relations courses, and 12 credits of electives. There is also a Foreign Language Requirement.

MA in AADS Core (9 credits)

AFA 5005	African & African Diaspora Studies Theory *(3 credits)*
AFA 5855	Research Methods in African and African Diaspora Studies (*3 credits)*
AFA 6920	African & African Diaspora Studies Graduate Colloquium *(3 credits —1 credit over three semesters)*

Combined MA in AADS/PhD in Global and Sociocultural Studies Core Courses: (6 credits)

SYA 6127	Theory and Inquiry *(3 credits)*
ANG 5093	Research Methods *(3 credits)*

MA in AADS Electives (15 credits)

Nine credits of elective courses with an AADS focus must be from the Global and Sociocultural Studies Department. Six credits may be from outside of the Department but within the Green School and/or the college of Arts & Sciences. Students wishing to take courses outside of the Green School and the college of Arts & Sciences must seek prior approval.

Note: students are advised to take at least 9 of these elective credits in their chosen major discipline for GSS (anthropology, geography, or sociology).

MA in AADS Research Proposal option

To graduate from the MA in AADS, students enrolled in this combined MA/PhD pathway must elect to complete either a research proposal or research paper for their exit option. Those who elect to write a research proposal must take AFA 6911 Research Paper/Proposal Writing in African and African Diaspora Studies.

MA in AADS Language Requirement

Students must demonstrate proficiency in a language other than English according to the nature of their thesis or research paper/proposal and professional interests.

Application for Graduation from MA in AADS

Students should apply for graduation for the MA in AADS as soon as they have completed all requirements for the degree – including the exit option. Ordinarily, the MA will be conferred before the student advances to candidacy for the PhD in Global and Sociocultural Studies.

Matriculation to PhD in GSS

All students must undergo a successful M.A. review upon completion of the AADS Master's Program requirements in order to continue toward the Ph.D. in GSS. The GSS Graduate Committee, along with an appointee from AADS, conducts these reviews. The purpose of the M.A. review is to determine the ability of the student to do Ph.D. level work with the department's faculty. Among the information considered during the review are students' performances and grades in courses, and faculty recommendations.

Degree Requirements for Ph.D. in Global and Sociocultural Studies

The doctorate in Global and Sociocultural Studies requires a minimum of 75 credits beyond the baccalaureate including a dissertation based on original research. 30 credits of the MA in AADS will count toward the 75-credit minimum. Thus, a minimum of 45 credits must be earned beyond the MA.

Major Courses (33 credits)

All doctoral students will choose a major in Anthropology, Geography, or Sociology. The following distribution of coursework is required.

a). Major theory (3)
b). Major methods (3)
c). Major course electives (6 minimum)
d). Exam and dissertation credits and GSS and non-GSS Department electives
- Doctoral Exam Preparation (6 maximum)
- Doctoral Dissertation (15 minimum)

General Electives (12 credits)

GSS and non-GSS Department electives

Ph.D. General Examination

After successfully completing the common core requirements, the major's course requirements, and electives, a student prepares for the Ph.D. General Exam by enrolling in a maximum of six credits of exam preparation for their major. In preparation for the exam, a student forms a dissertation committee according to the regulations published on the University Graduate School web page (**http://gradschool.fiu.edu**). The Ph.D. General Exam addresses the student's anticipated dissertation topic, and is conducted according to the University Graduate School Policies and Procedures Manual and the Department's Ph.D. General Exam guidelines.

The Dissertation Proposal and Defense/Candidacy Exam

After passing the Ph.D. General Exam, a student works under the guidance of the dissertation committee to prepare a dissertation proposal and defend it orally before the committee. The chair of the dissertation committee must hold Dissertation Advisor Status from the University Graduate School. The proposal defense serves as the doctoral candidacy exam for the Ph.D. program in Global and Sociocultural Studies. Upon passing the proposal defense, a student is admitted to candidacy status.

The Dissertation and Dissertation Defense

After successfully defending a dissertation proposal, a student conducts the proposed research and completes a dissertation under the guidance of a dissertation committee. Only after successfully defending the dissertation proposal may a student register for dissertation hours (ANG 7980, GEO 7980, or SYA 7980). The Ph.D. program requires a student to be continuously enrolled in a minimum of 3 hours of Doctoral Dissertation each semester from the time of advancement to candidacy until completion of the dissertation, including summers. Upon completion of the dissertation manuscript and authorization by the committee, a student defends the dissertation before the committee and the University community. The University Graduate School's regulations governing the dissertation are described at **http://gradschool.fiu.edu**.

M.A. in Asian Studies/Ph.D. in Global and Sociocultural Studies Combined Degree Pathway

The combined Asian Studies MA/Global & Sociocultural Studies PhD pathway allows qualified graduate students to pursue both degrees at the same time. Students can develop an expertise in Asian Studies while progressing towards a PhD in one of the three majors in the Global and Sociocultural Studies PhD: geography, sociology, or anthropology.

Admission Requirements

Applicants must meet the following minimum requirements of Global and Sociocultural Studies to be considered for admission:

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.5 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores;
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the internet-

based TOEFL (equivalent to 550 on the paper-based version) or a 6.5 overall on the IELTS is required.

Admission Procedure

To be accepted into this pathway, students must submit an application to the PhD in Global and Sociocultural Studies with a sub-plan for a MA in Asian Studies. This designation will appear in the menu of programs in the graduate application. To be accepted into this pathway, students must submit an application by February 15 in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the online application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable;
5. Statement of purpose explaining his/her interest for enrolling in both the AS MA program and in the Ph.D. program in GSS. The statement of purpose must clearly address the applicant's academic and professional objectives for enrolling in both fields of inquiry. The statement of purpose must also indicate the intended major (international political economy or Asian cultural studies for the AS MA ,and anthropology, geography, or sociology for Ph.D. in GSS) the applicant plans to select while engaged in the Ph.D. in GSS;
6. Three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability;
7. A curriculum vitae or resume; and
8. Writing samples and other relevant professional work that may support their applications.

Degree Requirements for M.A. in Asian Studies

(30 credits Thesis Option/30 credits Non-Thesis Option)
Up to 30 credits earned for the M.A. in AS will count towards the 75 credits required for the Ph.D. in GSS.
Exceptions can be made based on the needs of the doctoral program.

Core (6 credits)

ASN 5050	Methods in Asian Studies
ASN 5315	Topics in Modern Asia
:	
ASN 5213	Asian Studies Colloquium
ASN 5910	Independent Research in Asian Studies
ASN 6930	Seminar in Asian Studies
ASN 6940	Internship in Asian Studies

Courses required for GSS Track (12 credits)

ISS 6305	Research Design and Methods
SYA 6127	Theory and Inquiry
ISS 6317	Social Research Quantitative Methods
SYA 6959	Writing Research Proposals

Asian Studies Courses (6 credits)
6 credits Asia-specific courses pertaining to main concentration (from courses listed below)

- SYD 6418 Urban Sociology in Global Perspective
- SYD 6655 Seminar on Social Change in Asia
- SYD 6901 Japanese Society in Global Perspective
- SYD 4654 State and Society in China

Language Requirement

Depending on the research topic students may be required to demonstrate language competency by the Asian Studies Graduate Committee.

MAAS Exit Options, Thesis or Non-Thesis

Thesis Exit Option (6 credits):
ASN 6972 Thesis
Non-Thesis Exit Option (6 credits):
ASN 6912 Master's Essay (3 credits) and one additional Asia-specific course (3 credits)

Master's Essay can be taken multiple times. Some students may be encouraged to develop their research projects by taking this course.

Application for Graduation from MA in AS

Students should apply for graduation for the MA in AS as soon as they have completed all requirements for the degree – including the exit option.

Matriculation to Ph.D. in GSS

All students must undergo a successful M.A. review upon completion of the AS Master's Program requirements in order to continue toward the Ph.D. in GSS. The GSS Graduate Committee, along with an appointee from AS, conducts these reviews. The purpose of the M.A. review is to determine the ability of the student to do Ph.D. level work with the department's faculty. Among the information considered during the review are student's performances and grades in courses, and faculty recommendations.

Degree Requirements for Ph.D. in Global and Sociocultural Studies

The doctorate in Global and Sociocultural Studies requires a minimum of 75 credits beyond the baccalaureate including a dissertation based on original research, up to 30 credits of the M.A. in AS will count toward the 75-credit minimum. Thus, a minimum of 42 credits must be earned beyond the M.A.

Major Courses (36 credits)

All doctoral students will choose a major in Anthropology, Geography, or Sociology. The following distribution of coursework is required:

a) Major theory methods (3)
b) Major methods (3)
c) Major course electives (9 minimum)
   - Doctoral Exam Preparation (6 maximum)
   - Doctoral Dissertation (15 minimum)

General Electives (6 credits)

GSS and non-GSS Department electives

Ph.D. General Examination

After successfully completing the common core requirements, the major's course requirements, and electives, a student prepares for the Ph.D. General Exam by enrolling in a maximum of six credits of exam preparation for their major. In preparation for the exam, a student forms a dissertation committee according to the regulations published on the University Graduate School web page (**http://gradschool.fiu.edu**). The Ph.D. General

Exam addresses the student's anticipated dissertation topic, and is conducted according to the University Graduate School Policies and Procedures Manual and the Department's Ph.D. General Exam guidelines.

The Dissertation Proposal and Defense/Candidacy Exam

After passing the Ph.D. General Exam, a student works under the guidance of the dissertation committee to prepare a dissertation proposal and defend it orally before the committee. The chair of the dissertation committee must hold Dissertation Advisor Status from the University Graduate School. The proposal defense serves as the doctoral candidacy exam for the Ph.D. program in Global and Sociocultural Studies. Upon passing the proposal defense, a student is admitted to candidacy status.

The Dissertation and Dissertation Defense

After successfully defending a dissertation proposal, a student conducts the proposed research and completes a dissertation under the guidance of a dissertation committee. Only after successfully defending the dissertation proposal may a student register for dissertation hours (ANG 7980, GEO 7980, or SYA 7980). The Ph.D. program requires a student to be continuously enrolled in a minimum of 3 hours of Doctoral Dissertation each semester from the time of advancement to candidacy until completion of the dissertation, including summers. Upon completion of the dissertation manuscript and authorization by the committee, a student defends the dissertation before the committee and the University community. The University Graduate School's regulations governing the dissertation are described at **http://gradschool.fiu.edu**.

M.A. in Latin American and Caribbean Studies/Ph.D. in Global and Sociocultural Studies Combined Degree Pathway

The combined Latin American and Caribbean Studies M.A. (MALACS)/Global & Sociocultural Studies Ph.D. pathway allows qualified graduate students to pursue both degrees at the same time. Students can develop an expertise in Latin American and Caribbean Studies while progressing towards a Ph.D. in one of the three majors in the Global and Sociocultural Studies Ph.D.: geography, sociology, or anthropology.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores;
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the internet-based TOEFL (equivalent to 550 on the paper-based version) or a 6.5 overall on the IELTS is required.

Admission Procedures

To be accepted into this pathway, students must submit an application to the Ph.D. in Global and Sociocultural Studies with a sub-plan for a M.A. in Latin American and Caribbean Studies. This designation will appear in the menu of programs in the graduate application. To be accepted into this program, students must submit an application by March 1 in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the on-line application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable.
5. Statement of purpose explaining his/her interest for enrolling in both the MALACS program and in the Ph.D. program in GSS. The statement of purpose must clearly address the applicant's academic and professional objectives for enrolling in both fields of inquiry. The statement of purpose must also indicate the intended major (anthropology, geography, or sociology) the applicant plans to select while engaged in the Ph.D. in GSS;
6. Three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability;
7. A curriculum vitae; and
8. Writing samples and other relevant professional work that may support their applications.

Degree Requirements for M.A. in Latin American and Caribbean Studies

The 36 credits earned for the M.A. in LACC (MALACS) will count towards the 75 credits required for the Ph.D. in GSS.

MALACS Core (9 credits)

LAS 6003	Survey of Latin America
LAS 6934	Research Seminar
ISS 6305	Research Methods and Design
or	
ISS 6317	Social Research Quantitative Methods I

Courses Required for GSS Track (9 credits)

SYA 6127	Theory and Inquiry
ISS 6305	Research Methods and Design
or	
ISS 6317	Social Research Quantitative Methods I
SYA 6959	Writing Research Proposals

Electives (12 credits)

- 6 credits of elective courses with a clear MALACS focus from within the Department of Global and Sociocultural Studies
- 6 credits of elective Courses from outside that Department and within the Green School and/or the College of Arts & Sciences (see the MALACS

Humanities and Social Sciences lists of approved graduate courses).

MALACS Research Proposal

To graduate from the MALACS program, students enrolled in this combined M.A./Ph.D. pathway must elect the research proposal option and take the proposal writing course SYA 6959 Writing Research Proposals during the semester prior to enrolling in the required exit options in the MALACS program.

MALACS Exit Options (6 credits)

Students may choose any of the exit options offered by the MALACS degree.

LAS 6790 Thesis (minimum 6 credits) See the MALACS program description for more information. The thesis is publically defended and approved by a committee of three graduate faculty members;

LAS 6905 (6 credits) Preparation of two directed research papers. Both papers require an oral presentation, defense and approval by a committee of three graduate faculty members;

LAS 6942 Internship and major research paper (6 credits). Supervised internship leading to a major research paper based upon the student's work during the internship. The research paper requires an oral presentation and approval by a committee of three graduate faculty members.

MALACS Language Requirement

Students must demonstrate proficiency in a language other than English according to the nature of their thesis or research paper/proposal and professional interests.

Application for Graduation from MALACS program

Students should apply for graduation for the MALACS degree as soon as they have completed all requirements for the degree – including the exit option. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in GSS.

Matriculation to Ph.D. in GSS

All students must undergo a successful M.A. review upon completion of the MALACS Program requirements in order to continue toward the Ph.D. in GSS. The GSS Graduate Committee, along with an appointee from LACC, conducts these reviews. The purpose of the M.A. review is to determine the ability of the student to do Ph.D. level work with the department's faculty. Among the information considered during the review are a student's overall performance, grades in courses, and faculty recommendations.

Degree Requirements for Ph.D. in Global and Sociocultural Studies

The doctorate in Global and Sociocultural Studies requires a minimum of 75 credits beyond the baccalaureate including a dissertation based on original research. 36 credits of the MALACS program will count toward the 75-credit minimum. Thus, a minimum of 39 credits must be earned beyond the M.A.

Major Courses (33 credits)

All doctoral students will choose a major in Anthropology, Geography, or Sociology. The following distribution of coursework is required.

(a) Major theory (3)
(b) Major methods (3)
(c) Major course electives (6 minimum)
(d) Exam and dissertation credits and GSS and non-GSS Department electives
- Doctoral Exam Preparation (6 maximum)
- Doctoral Dissertation (15 minimum)

General Electives (6 credits)

GSS and non-GSS Department electives

Ph.D. General Examination

After successfully completing the common core requirements, the major's course requirements, and electives, a student prepares for the Ph.D. General Exam by enrolling in a maximum of six credits of exam preparation for their major. In preparation for the exam, a student forms a dissertation committee according to the regulations published on the University Graduate School web page (http://gradschool.fiu.edu). The Ph.D. General Exam addresses the student's anticipated dissertation topic, and is conducted according to the University Graduate School Policies and Procedures Manual and the Department's Ph.D. General Exam guidelines.

The Dissertation Proposal and Defense/Candidacy Exam

After passing the Ph.D. General Exam, a student works under the guidance of the dissertation committee to prepare a dissertation proposal and defend it orally before the committee. The chair of the dissertation committee must hold Dissertation Advisor Status from the University Graduate School. The proposal defense serves as the doctoral candidacy exam for the Ph.D. program in Global and Sociocultural Studies. Upon passing the proposal defense, a student is admitted to candidacy status.

The Dissertation and Dissertation Defense

After successfully defending a dissertation proposal, a student conducts the proposed research and completes a dissertation under the guidance of a dissertation committee. Only after successfully defending the dissertation proposal may a student register for dissertation hours (ANG 7980, GEO 7980, or SYA 7980). The Ph.D. program requires a student to be continuously enrolled in a minimum of 3 hours of Doctoral Dissertation each semester from the time of advancement to candidacy until completion of the dissertation, including summers. Upon completion of the dissertation manuscript and authorization by the committee, a student defends the dissertation before the committee and the University community. The University Graduate School's regulations governing the dissertation are described at **http://gradschool.fiu.edu**.

Combined M.A. in Religious Studies/Ph.D. in Global and Sociocultural Studies Degree Pathway

The combined Religious Studies M.A./Global and Sociocultural Studies Ph.D. pathway allows qualified graduate students to pursue both degrees at the same

time. Students can develop an expertise in Religious Studies while progressing towards a Ph.D in one of the three majors in the Global and Sociocultural Studies Ph.D. geography, sociology, or anthropology. The dissertation may be directed by a qualified professor in either department

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission

1. Baccalaureate degree from an accredited institution for higher education (or equivalent)
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores,
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the internet based TOEFL (equivalent to 550 on the paper-based version) or a 6.5 overall on the IELTS is required.

Admission Procedures

To be accepted into this pathway, students must submit an application to the Ph.D. in Global and Sociocultural Studies with a sub-plan for a M.A. in Religious Studies. This designation will appear in the menu of programs in the graduate application. To be accepted into this pathway, students must submit an application by March 1 in the year in which they wish to begin their studies.
The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the on-line application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable;
5. Statement of purpose explaining their interest for enrolling in both the M.A. Religious Studies program in the Department of Religious Studies and in the Ph.D. program in GSS. The statement of purpose must clearly address the applicant's academic and professional objectives for enrolling in both fields of inquiry. The statement of purpose must also indicate the intended major (anthropology, geography, or sociology) the applicant plans to select while engaged in the Ph.D. in GSS;
6. Three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability;
7. A curriculum vitae; and
8. Writing samples and other relevant professional work that may support their applications

Degree Requirements for M.A. in Religious Studies

The 36 credits earned for the M.A. in Religious Studies will count towards the 75 credits required for the Ph.D. in GSS.

Religious Studies Core (9 credits)

RLG 6935	Seminar in Sacred Sources	3
RLG 6013	Modern Analysis of Religion	3
RLG 5038	Advanced Fieldwork in Religious Studies	3

Courses Required for GSS Track (12 credits)

ISS 6346	Theory and Inquiry (Fall)
ISS 6306	Writing Research Proposals (Spring)
ISS 6305	Research Methods and Design (Spring)
ISS 6317	Social Research Quantitative Methods I (Fall)

Electives (9 or 12 credits depending on exit option)
9 or 12 credits or elective courses from within the Department of Religious Studies Department

Religious Studies MA Exit Options (6 or 3 credits)
Students may choose any of the exit options offered by the Religious Studies degree.

RLG 6971 Thesis (minimum 6 credits) See the Religious Studies program description for more information. The thesis is publicly defended and approved by a committee of three graduate faculty members

RLG XXXX (3 credits) Preparation of two directed research papers. Both papers require an oral presentation, defense and approval by a committee of three graduate faculty members;

RLG XXXX Internship and major research paper (3 credits). Supervised internship leading to a major research paper based upon the students work during the internship. The research paper requires an oral presentation and approval by a committee of three graduate faculty members.

SIPA Language Requirement
Students must demonstrate proficiency in a language other than English according to the nature of their thesis or research paper/proposal and professional interests.

Application for Graduation from Religious Studies program
Students should apply for graduation for the Religious Studies degree as soon as they have completed all requirements for the degree – including the exit option. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in GSS.

Matriculation to Ph.D. in GSS
All students must undergo a successful M.A. review upon completion of the Religious Studies Program requirements in order to continue toward the Ph.D. in GSS. The GSS Graduate Committee, along with an appointee from Religious Department conducts these reviews. The purpose of the M.A. review is to determine the ability of the student to do Ph.D. level work with the department's faculty. Among the information considered during the review are a students overall performance, grades in courses, and faculty recommendations.

Degree Requirements for Ph.D. in Global and Sociocultural Studies
The doctorate in Global and Sociocultural Studies requires a minimum of 75 credits beyond the baccalaureate

including a dissertation based on original research. A maximum of 36 credits of the Religious Studies Master program will count toward the 75-credit minimum. Thus, a minimum of 39 credits must be earned beyond the M.A.

Major Requirements (33 credits)
All doctoral students will choose a major in Anthropology, Geography, or Sociology. The following distribution of coursework is required.

(a) Major theory (3)
(b) Additional methods (3)
(c) Major course electives (6 minimum)
(d) Exam and dissertation credits
  a. Doctoral Exam Preparation (6 maximum)
  b. Doctoral Dissertation (15 minimum)

General Electives (6 credits)
GSS and non-GSS Department electives

Ph.D. General Examination
After successfully completing the common core requirements, the major's course requirements, and electives, a student prepares for the Ph.D. General Exam by enrolling in a maximum of six credits of exam preparation for their major. In preparation for the exam, a student forms a dissertation committee according to the regulations published on the University Graduate School web page (**http://gradschool.fiu.edu**). The Ph.D. General Exam addresses the student's anticipated dissertation topic, and is conducted according to the University Graduate School Policies and Procedures Manual and the Department's Ph.D., General Exam guidelines.

The Dissertation Proposal and Defense/Candidacy Exam
After passing the Ph.D. General Exam, a student works under the guidance of the dissertation committee to prepare a dissertation proposal and defend it orally before the committee. The chair of the dissertation committee must hold Dissertation Advisor Status from the University Graduate School. The proposal defense serves as the doctoral candidacy exam for the Ph.D. program in Global and Sociocultural Studies. Upon passing the proposal defense, a student is admitted to candidacy status.

The Dissertation and Dissertation Defense
After successfully defending a dissertation proposal, a student conducts the proposed research and completes a dissertation under the guidance of a dissertation committee. Only after successfully defending the dissertation proposal may a student register for dissertation hours (ANG 7980, GEO 7980, or SYA 7980). The Ph.D. program requires a student to be continuously enrolled in a minimum of 3 hours of Doctoral Dissertation each semester from the time of advancement to candidacy until the completion of the dissertation, including summers. Upon completion of the dissertation manuscript and authorization by the committee, a student defends the dissertation before the committee and the University community. The University Graduate School's regulations governing the dissertation are described at **http://gradschool.fiu.edu**.

Course Descriptions

Definition of Prefixes

ANG-Anthropology Graduate; ANT-Anthropology; GEA-Geography: Regional Areas; GEO-Geography: Systematic; GIS-Geography: Information Science; ISS-Interdisciplinary Social Sciences; SYA-Sociological Analysis; SYD-Sociology of Demography and Area Studies; SYG-Sociology, General; SYO-Social Organization; SYP-Social Processes
F-Fall semester offering; S-Spring semester offering; SS-Summer semester offering.

ANG 5267 Environmental Anthropology (3). Theories of human adaptation, including environmental determinism, possibilism, cultural ecology, materialism, and evolutionary ecology. Credit for both ANT 3403 and ANT 5548 will not be granted. Prerequisites: Graduate standing or permission of the instructor. (SS)

ANG 5355 Ethnographies of Sub-Saharan Africa (3). Critical reading of selected "historical" and contemporary ethnographies of Sub-Saharan Africa.

ANG 5396 Representations of Africa and Africans in Films (3). Analyzes representations of Sub-Saharan Africa and Africans in various cinematic traditions (including documentaries) and examines these representations in socioeconomic and political contexts. Prerequisite: Permission of the instructor.

ANG 5397 Advanced African Diaspora Cultures and Performativity (3). Examines different approaches adopted by African diaspora studies scholars in social and cultural anthropology, and recent theoretical texts and debates in Performance Studies. Prerequisite: Permission of the instructor.

ANG 5905 Directed Individual Study (1-20). Supervised readings and/or field research and training. Prerequisite: Permission of the instructor. (F,S,SS)

ANG 5906 Directed Individual Studies (3). Supervised readings and/or field research and training.

ANG 5915 Directed Field Research (1-20). Permission of the instructor required.

ANG 6083 Theory in Anthropology (3). Examines the relationship between theory and research in the social sciences, focusing on the historical, contemporary, and philosophical foundations of anthropological thought. Prerequisites: Graduate standing in the department or permission of the instructor.

ANG 6303 Comparative Feminisms (3). Course examines feminisms and feminist movements in a global context. Taking several geocultural areas as examples, the course analyzes the discourse of cultures, feminisms, and feminist movements. Prerequisites: One graduate level course on gender or permission of the instructor. (S)

ANG 6305 Queer Lives/Queer Theories (3). Introduces key arguments, theories, and methods of queer studies through an examination of the social, economic, and cultural construction/organization of sexual identities and politics.

ANG 6339 Seminar on Latin America (3). Analysis of Latin American cultures and classes using case studies. Students read a series of anthropological or sociological works and discuss them in a seminar format. Prerequisites: Graduate standing or permission of the instructor. (F)

ANG 6472 Anthropology of Globalization (3). Examination of global economic, political, and cultural processes including the movements of people, commodities, and capital. Study of formation of identities, consumption practices, and gender dynamics.

ANG 6473 Diasporas, Migration, and Globalization (3). Examines a variety of theories of "Diaspora" that have proliferated during the last few decades, as the concept relates to processes of transnational migration and globalization.

ANG 6480 Ethnohistorical Research Methods (3). Ethnohistorical research methods enable the compilation and analysis of a wide array of data sources for the production of sociocultural theories, histories, processes and contexts. Prerequisites: Graduate standing or permission of the instructor.

ANG 6497 Qualitative Research Methods (3). Qualitative research methods in anthropology and sociology. Includes participant-observation, field work, key informants and in-depth interviewing, visual techniques, ethical issues, and reflexivity. (F)

ANG 7964 Preparation: Preliminary Doctoral Exam (1-9). Preparation for the preliminary doctoral exam under the direction of a faculty member. Hours may vary. Prerequisite: Permission of major professor.

ANG 7980 Ph.D. Dissertation (1-20). Completion of doctoral dissertation. Hours may vary. Prerequisite: Permission of major professor and doctoral candidacy.

ANT 6302 Gender Identity in Comparative Perspective (3). Comparative examination of cultural and socio-economic factors defining gender identities and relations in western and non-western societies. Includes selected cross-cultural case studies. Prerequisites: Graduate standing or permission of the instructor. (S)

ANT 6319 The African Diaspora: Anthropological Perspectives (3). History and cultures of Africans outside of Africa, with a special emphasis on the African experience in the Americas. Topics covered include slavery, class, gender, ethnicity, and religion. Prerequisite: Graduate standing.

ANT 6469 Graduate Medical Anthropology (3). Concepts and methods in the field of medical anthropology. Importance of culture in governing the type and frequency of disease in a population, the way people explain and treat disease, and responses to the delivery of modern medicine. Prerequisite: Graduate standing. (S)

ANT 7491 Contemporary Theory in Social Anthropology (3). Graduate seminar examining current theoretical issues in social anthropology. Prerequisites: SYA 6018 or permission of the instructor.

GEA 6409 Landscapes of Violence and Healing in the Americas (3). Nation building in the Americas cycles between violence (political, economic, cultural) and healing (through magic, rituals, religion or the arts). Prerequisite: Graduate standing.

GEO 5415 Topics in Social Geography (3). Topics discussed include geographic aspects of population and ethnicity, with emphasis on sources and analysis of data and pertinent concepts. Prerequisites: GEA 2000, graduate standing, or permission of the instructor.

GEO 5479 Advanced Political Ecology (3). People are often engaged in conflict over nature and the landscapes where they would live, work, and recreate. Seminar illuminates roles of geography, history, and power in these conflicts. Prerequisite: Graduate status.

GEO 5557 Globalization (3). Examines the transformation of the world economy and of global finance, the changing significance of sovereignty and territoriality, the effects of space-time compression on everyday life, and associated shifts in culture and identity.

GEO 5906 Directed Individual Studies (3). Supervised readings and/or field research and training.

GEO 6113 Qualitative Research Methods in Geography (3). Workshop class on qualitative research methods including archival analysis, participant observation, interviewing, and focus groups.

GEO 6118 Theory in Geography (3). Examines the relationship between theory and research in the social sciences, focusing on theoretical perspectives in geography. Prerequisites: Graduate standing in the department or instructor's permission.

GEO 6405 Geographies of Resilience in the Anthropocene (3). Examines the emergence of resilience within the context of new understandings of nature connected with the Anthropocene, and explores alternative ways of living in a dynamic world.

GEO 6413 Feminist Geographies (3). Examines key contributions of feminist theory and scholarship to the discipline of Geography.

GEO 6473 Space, Place and Identity (3). Explores space, place and identity in international relations. Focus is on the importance of the spatial relations instructing the politics of nationalisms, ethnicities, and genders.

GEO 6478 Critical Geopolitics (3). Examines the school of thought that emerged in the 1980s challenging hegemonic ways of representing the world. Topics include feminist geopolitics, war on terror, critical geopolitics in Latin America. Prerequisite: Graduate standing.

GEO 6603 Cities and Regions in Global Perspective (3). Examines the interplay of cities and regions with the world political economy, past and present. Emphasizes theoretical perspectives on conditions underlying inequalities between cities and regions. Prerequisite: Graduate standing.

GEO 7964 Preparation: Preliminary Doctoral Exam (1-9). Preparation for the preliminary doctoral exam under the direction of a faculty member. Hours may vary. Prerequisite: Permission of major professor.

GEO 7980 Ph.D. Dissertation (1-20). Completion of doctoral dissertation. Hours may vary. Prerequisites: Permission of major professor and doctoral candidacy.

GIS 5038 Remote Sensing (3). Satellite image and aerial photo interpretation and analysis fundamentals.

GIS 5405 Critical GIScience (3). Examines the science of GIS and new geospatial technologies. It focuses on the social implications of and social biases inherent in technologies, science, and their deployments.

GIS 5620 Surveillance, Intelligence, and International Relations (3). This seminar focuses on the role of advanced technology in obtaining information via orbital or land-based surveillance systems on issues of international relations such as warfare and globalization. Prerequisites: Graduate standing or permission of the instructor.

GIS 5935 Topics in Geographic Information Systems (3). Geographic concepts are studied in a computer-based mapping environment. Both social and physical data are used. Students receive a background in spatial analysis and basic cartography.

ISS 5309 Visual Methods in Social Sciences Research (3). Interdisciplinary course explores use of visual methods in social sciences research, focusing on documentary film and PhotoVoice techniques.

ISS 6302 Interdisciplinary Methods in Social-ecological Research (3). Explores theories, methods, tools, and applications of inter- and trans-disciplinary research across academic fields, as well as between academia and society.

ISS 6305 Research Methods and Design (3). Logic and procedures in conceptualizing and conducting empirical social research. Emphasizes the relationship of research design and methods to theoretical perspectives. Prerequisites: Graduate standing or permission of the instructor.

ISS 6306 Writing Research Proposals (3). Development of skills in writing research proposals. Prerequisites: Graduate standing in the department and three semesters of completed graduate studies, or instructor's permission.

ISS 6317 Social Research Quantitative Methods I (3). First course in the graduate program's sequence in social research quantitative methods. Prerequisites: Graduate standing or permission of the instructor.

ISS 6346 Theory and Inquiry (3). First semester required core seminar. Introduces issues and controversies concerning the relationship between theory and research. Prerequisites: First year graduate standing in the department or permission of the instructor.

SYA 5135 Sociology of Knowledge (3). The study of the theoretical basis of knowledge and the inter-relatedness of knowledge and social factors, particularly as knowledge relates to institutional forms of behavior. (F)

SYA 5357 Graduate GIS and Latin American Societies (3). Introduces geographic information systems (GIS) in the context of Latin American socio-spatial and environmental problems and transformations.

SYA 5909 Directed Individual Study (VAR). Supervised readings and/or field research and training. Prerequisite: Permission of the instructor. (F,S,SS)

SYA 5941 Directed Field Research (VAR). Permission of the instructor required. (F,S,SS)

SYA 6018 Sociocultural Theories A (3). One of two courses designed to prepare students with a thorough understanding of the key theories and theorists of both sociology and anthropology typically offered in the fall semester. Prerequisites: Graduate standing or permission of the instructor. (F)

SYA 6127 Theory and Inquiry (3). First semester required core seminar. Introduces issues and controversies concerning the relationship between theory and research. Prerequisites: First year graduate standing in the department or permission of the instructor.

SYA 6305 Research Methods I (3). The first in a two-course sequence in applied social science research methods in comparative sociology emphasizes quantitative skills needed to design, implement and analyze data. Prerequisites: Graduate standing or permission of the instructor. (F)

SYA 6306 Research Methods II (3). The second in a two-course sequence on research methods in comparative sociology. Includes the quantitative analysis of sociological research data, and the preparation of written reports and articles. Prerequisites: SYA 6305 and equivalent. (S)

SYA 6317 Social Research Quantitative Methods II (3). Second course in the graduate program's sequence in social research quantitative methods. Discusses the relationship between theory and research, and quantitative in relation to qualitative methods. Prerequisites: ISS 6317 or permission of the instructor.

SYA 6356 GIS and Social Research (3). Focuses on applications of GIS in social research; includes applying critical perspective on space, place, cartography to GIS social research projects. Prerequisites: GIS 3048 or EVR 4XXX or permission of the instructor.

SYA 6657 Evaluation of Organizations and Programs (3). Conceptual frameworks and methods for evaluating the performance and impacts of organizations and programs.

SYA 6941 Internship in Applied Sociology (1-9). Practical application in a supervised setting outside of the classroom of knowledge acquired in the classroom. Hours may vary.

SYA 6943 South Florida Area Study (3). Current issues in South Florida studied through large-scale survey research conducted by class members. Provides experience in research techniques and the development and testing of theory. Prerequisites: SYD 6625 and SYA 6305. (S)

SYA 6959 Writing Research Proposals (3). Development of skills in writing research proposals. Prerequisite: Three completed semesters of graduate work.

SYA 6975 Thesis (1-6). Registration for students working on the thesis for the M.A. in Comparative Sociology or the M.A. in International Studies. Prerequisites: All other course work for the M.A. in Comparative Sociology or International Studies. (F,S,SS)

SYA 7205 Foundations of Social Theory Construction (3). Seminar exams assumptions of social theory. Topics include objectivity in the social sciences, social science concepts and explanations, reductionism, and the bases of social theory construction. (S)

SYA 7930 Special Topic in Comparative Sociological Research (3). A detailed exploration into particular research methodologies, approaches and techniques relevant to Comparative Sociology. Topic will vary depending upon the instructor. Course may be repeated.

Prerequisites: SYA 6305 and SYA 6306 or permission of the instructor.

SYA 7941 Field Research (1-9). Research projects or certain aspects of research in a field situation carried out by one or more students under the direction of a faculty member. Topics vary. Usually selected on an individual basis. Hours may vary. (F,S,SS)

SYA 7967 Preparation: Preliminary Doctoral Exam (1-9). Preparation for the preliminary doctoral exam under the direction of a faculty member. Hours may vary. (F,S)

SYA 7979 Advanced Research (1-9). Research projects or certain aspects of research carried out by one or more students under the direction of a faculty member. Topics vary; selected on an individual basis. Hours may vary. (F,S,SS)

SYA 7980 Ph.D. Dissertation (1-12). Hours taken by students to work on the dissertation under the supervision of a major professor and the doctoral committee. Hours may vary. Prerequisites: Permission of Major Professor and Doctoral Candidacy. (F,S)

SYD 5045 Population and Society (3). The study of the processes that determine the size and composition of human populations. Emphasis on demographic transition theory and the antecedents and consequences of differential growth rates throughout the world. Prerequisites: Graduate standing or permission of the instructor.

SYD 5607 Advanced World Jewish Communities (3). Overview of Jewish communities throughout the world. Analyzes their origins, migrations, demographic and social characteristics. Covers Ashkenazi, Sephardi, and Oriental communities. Prerequisite: Graduate Standing.

SYD 5656 Global Japan (3). An examination of the dynamics of contemporary social issues in Japan and Japan's role in a globalized society.

SYD 5708 Advanced Race, Gender, Sexuality: Entanglements Across Time and Space (3). Examines the transnational, interrelated history of race and gender from the 16th century to the present.

SYD 6236 International Migration and Refugees (3). Comparative analysis of the causes, consequences, and policies concerning population movements across national borders. Includes review of various theories of labor migration. Students will conduct research on a migration or refugee topic. Prerequisites: Graduate standing or permission of the instructor. (F)

SYD 6325 Seminar in the Comparative Sociology of Gender (3). The examination of women's and men's roles, statuses, and life opportunities from a historical and comparative perspective. Current theoretical developments in the study of gender are emphasized. Prerequisites: Graduate standing or permission of the instructor. (S)

SYD 6418 Graduate Seminar in Urban Sociology (3). Presents an overview of the major subtopics and debates in urban sociology, including comparative, transnational, and global perspectives.

SYD 6427 Seminar in Comparative Urban Issues (3). Current theoretical developments in the study of urbanism, including the evolution and growth of cities, spatial and social structures, migration, and the critical problems of social life in cities. Prerequisites: Graduate standing or permission of the instructor. (F)

SYD 6615 Seminar in Comparative Analysis of Selected Regions (3). Comparative social analysis using studies from two or more world regions. Students read a series of works on issues such as bureaucracy, modernization, and development, and discuss them in a seminar format. Prerequisites: Graduate standing or permission of the instructor. (S)

SYD 6625 South Florida Socio-cultural Systems (3). The sociological and anthropological analysis of South Florida. Presents tools for regional study including demography, cultural ecology, and ethnic group-centered symbolic systems. Prerequisites: Graduate standing or permission of the instructor. (F)

SYD 6626 Cuba Seminar (3). Examines the culture and social structure of the Cuban Republic; the antecedents and consequences of the profound process of social change initiated in 1959; and Cuban emigration. Prerequisites: Graduate standing or permission of the instructor.

SYD 6639 Seminar in Societies and Cultures of the Caribbean (3). This course examines the Caribbean's relationship to global social and cultural processes. It focuses both on the region's history and present day, with emphasis on sociological perspectives.

SYD 6655 Seminar on Social Change in Asia (3). An examination of social change in contemporary Asia, including the relationships between states, the changing political economies, and the role of social movements and cultural institutions in change. Prerequisites: Graduate standing or permission of the instructor.

SYD 6705 Comparative Analysis of Ethnicity and Race (3). Consideration of major theories of ethnicity and race and analysis of selected ethnic groups in various world regions. Includes the study of race and ethnic issues in Miami and the South Florida region. (S)

SYD 6796 Sex, Race, and Power in Colonial Times (3). Critical examination of sexual intimacy in colonial contexts between colonizers and colonized people. Explores the intersection between racialization and sexualization and white male power over black and brown male and female bodies. Prerequisite: Graduate standing.

SYD 6816 Advanced Sociological Theories of Gender (3). Examines sociological theory as it deals with gender from a feminist perspective. Prerequisite: Graduate standing. (S)

SYD 6901 Special Topics in Sociology (3). An examination of specific themes and topics in sociology. The theme may vary from semester to semester. With a change in content, the course may be repeated. Can be taken for credit no more than twice with any given instructor. Prerequisites: SYA 6018 or permission of the instructor.

SYD 7903 Directed Readings (1-9). Readings under the direction of a faculty member focusing on one of the tracks in the Ph.D. program. Hours may vary. (F,S,SS)

SYG 6932 Special Topics in Disaster Studies (3). Case studies of major disasters used to explore topics such as

impact of gender, class, ethnicity, and age on vulnerability, response, and outcome; effects of larger political and economic systems; and relationship to social change. May be repeated with change of topic.

SYO 6306 Political Sociology (3). Examines social relations of power in groups, organizations, and national and global structures; also patterns of state formation, state-society relations, and sources of political change. Prerequisite: Graduate standing. (S)

SYO 6405 Graduate Medical Sociology (3). Examination of the social significance of health, illness, and medicine in the U.S. as compared to other societies. Includes disease type and distribution as well as a critique of health care professions, organizations, and policies. Prerequisite: Graduate standing. (F)

SYO 6536 Comparative and Global Inequality (3). Addresses theoretical approaches and empirical studies concerning socioeconomic, political, and local/regional inequalities in comparative, transnational, and global perspective. Prerequisites: Graduate standing or permission of the instructor. (S)

SYP 5447 Development and Post-Development (3). Examines theories and case studies concerning development and post-development in global perspective. (S)

SYP 6457 Cities and Regions in Global Perspective (3). Examines the interplay of cities and regions with the world political economy, past and present. Prerequisite: Graduate standing.

SYP 6907 Comparative and Global Social Change (3). Examines examples of social change in comparative, transnational, diasporic, and global perspective. Prerequisites: Graduate standing or permission of the instructor. (F)

History

Victor M. Uribe, *Professor and Chairperson*
Saad Abi-Hamad, *Associate Teaching Professor*
Jessica L. Adler, *Associate Professor*
Tovah Bender, *Associate Teaching Professor and Undergraduate Program Director*
Julio Capó, *Associate Professor*
Noble David Cook, *Professor Emeritus*
Gwyn Davies, *Associate Professor*
Rebecca Friedman, *Associate Professor*
Jenna Gibbs, *Associate Professor*
Alan Kahan, *Professor Emeritus*
Kenneth J. Lipartito, *Professor*
Judith Mansilla, *Assistant Teaching Professor*
Catherine Mas, *Assistant Professor*
Lindsey Maxwell, *Assistant Teaching Professor*
Okezi T. Otovo, *Associate Professor*
Keyao "Kyle" Pan, *Assistant Professor*
Joyce S. Peterson, *Professor Emerita*
Terrence G. Peterson, *Assistant Professor*
Bianca C. Premo, *Professor*
Darden Asbury Pyron, *Professor Emeritus*
Howard B. Rock, *Professor Emeritus*
Jeremy David Rowan, *Teaching Professor and Associate Chairperson*
Daniel Royles, *Assistant Professor and Graduate Program Director*
Mark D. Szuchman, *Professor Emeritus*
Elizabeth Terry-Roisin, *Assistant Professor*
Chantalle F. Verna, *Associate Professor*
Kirsten E. Wood, *Associate Professor*

Master of Arts in History

The Department of History offers the on-campus and fully online M.A. degree, with coursework in five culture areas: Africa, Asia, Europe, Latin America, and United States. Students will choose a Thesis, Report, or Internship in Public History option, in consultation with the Department's Graduate Program Director. The degree requirements for the M.A. vary according to the option taken (see under Degree Requirements).

Entrance Requirements

Requirements for admission into the M.A. degree program in History are the same regardless of the option selected. Applicants must also satisfy any additional requirements the University sets for admission to graduate work. Applications should include transcripts from any postsecondary institutions attended, two (2) letters of recommendation, a writing sample, and a 2-4 page statement of purpose describing the applicant's academic plans and long-term career goals.

Admissions into the on-campus and online M.A. programs are generally conducted once a year and only for the Fall term. Applicants seeking entrance for the Fall term should prepare all application materials in time for the Department of History and the Office of Graduate Admissions to receive them no later than February 1. Completed applications generally receive notification of admission by March 30. For Spring term admissions to the fully online M.A. degree program, submit all application materials no later than September 1. Completed applications generally receive notification of admission by October 31.

1. Applicants must hold a bachelor's degree from an accredited institution and have a 3.25 GPA in upper-level work (UG 60). Applicants who believe their applications would be strengthened by high GRE scores may also submit them. The GRE is not, however, required.
2. Two letters of recommendation with waiver forms.
3. Applicants must have completed 12 semester-hours of credit (on the basis of 3-hour courses) in upper division undergraduate courses in History, or the equivalent, as approved in writing by the Graduate Program Director.

Any applicant with fewer than twelve (12) semester-hours of upper division undergraduate courses in History, or the equivalent, should consult the Graduate Program Director about the possibility taking at least six (6) semester-hour graduate credits as a Non-Degree Seeking Student (consult the University Catalog and the Office of Graduate Admissions). After completing this work with an average grade of "B+" (3.3), the student may apply for regular admission. Other methods may also be pursued with the written permission of the Graduate Program Director.

The above admissions criteria are only minimum requirements. All applications are reviewed by the Graduate Committee which makes the final admissions recommendations to the University Graduate School.

Degree Requirements

Thesis Option

1. A minimum of 30 semester-hours for the degree, including the maximum of six semester-hours of Thesis Research. All course work must be taken at FIU.
2. A minimum of 24 semester-hours of course work, including one two-semester Research Seminar.
3. Reading competence in a foreign language, demonstrated by achieving a Pass or High Pass on the departmental examination. Courses taken to attain language competency do not count towards the degree. The Latin American concentration requires proficiency in Spanish, Portuguese, or another language appropriate to the student's field; the modern European concentration requires proficiency in an appropriate European language; the United States concentration requires proficiency in any of the above, or competency in social science quantitative skills, demonstrated by receiving a grade of "B" or higher in an appropriate course approved for this purpose by the Graduate Program Director; the medieval or ancient concentration in two languages; one of Hebrew, Latin, Greek or another ancient language as deemed appropriate by the student's advisor, and one modern European language.
4. The following limits are placed in accumulating credits toward the M.A. degree:
    a. No more than six semester-hours of HIS 5908 (Independent Study) are permitted.
    b. Students must receive the grade of "B" (3.0) or better in order for any course to count toward the degree.

   c. Students are prohibited from taking graduate-level cross-listed courses that they have already taken at the undergraduate level.
5. All students are required to take HIS 6059 (Historical Methods).
6. Core Area. Students will select one core area for concentration in United States History, European History, African History or Latin American and Caribbean History, in consultation with the Graduate Advisor. Twelve semester-hours of course work will be taken within the core area.
7. Breadth Areas. Students will take six semester-hours in breadth areas. These may be courses taken within the Department of History that are outside the culture area of concentration, or in associated disciplines outside of the Department (with the approval of the Graduate Advisor), or a combination of the two.
8. Students will take one elective course for 3 semester-hours.
9. Students will register for up to six semester-hours of HIS 6970 (Thesis Research).
10. At least one course must be comparative. Comparative courses must have HIS or WOH prefixes, or else be approved for this purpose by the Graduate Program Director.
11. The thesis must be successfully defended and formally approved by a Thesis Committee composed of three members, two of whom must be graduate faculty members of the Department of History. The Thesis Committee is convened and headed by the thesis supervisor.
12. The degree candidate will prepare the thesis in accordance with the regulations stipulated in the University's Graduate Policies Manual. The degree will be conferred after the approval of the final version of the thesis by the Offices of the Dean of the Steven J. Green School of International and Public Affairs and the University Graduate School.

Report Option

1. A minimum of 30 semester-hours of course work are needed for the M.A. degree. The report option does not set requirements for Core/Breadth area distribution. Students will design their course work in consultation with the Graduate Program Director and the relevant faculty. All courses must be taken in the Department of History at FIU, or else be approved in writing by the Graduate Program Director.
2. Students must complete one two-semester research seminar. With the consent of the professor for whom it was written, students may revise the report and submit it to the Graduate Committee for final approval.
3. HIS 6059 (Historical Methods) is required of all students.
4. 6 semester-hours, not including Historical Methods, must be comparative. Comparative courses must have HIS or WOH prefixes, or else be approved for this purpose by the Graduate Program Director.
5. The following limits are placed on accumulating credits towards the Master's degree:
   a. Students must receive the grade of "B" (3.0) or better for the course to count toward the degree.
   b. HIS 5908 (Independent Study) is limited to six semester-hours.

Internship in Public History Option

1. A minimum of 30 semester hours for the degree, including 6 semester hours of Independent Study tied to an internship in the fields of Museum Studies or Public History. The internship requires a minimum of 300 hours of work that is to be documented by the project supervisor or museum director. The internship must be approved by the Public History Coordinator and supervised by a regular member of the department's faculty. Students must defend a written report following departmental regulations of their internship activities before a committee of faculty before the degree can be awarded.
2. A minimum of 24 semester hours of course work, of which 6 credit hours must be taken from the following list of courses: HIS 5067 (Public History Theory and Practice), HIS 5084 (History, Memory and the Public), ARH 5850 (Introduction to Museum Studies), ARH 5851 (Museum Ethics). Other appropriate courses may be substituted with permission of the Graduate Program Director.
3. Students must complete one two-semester research seminar.
4. HIS 6059: Historical Methods.

History M.A. Option

Only students who have been admitted to the Ph.D. program without previously receiving an M.A. in History are eligible to pursue this track.

1. Completion of 39 hours of course work for graduate history credit. All course work must be taken at FIU, and receive a grade of "B" (3.0) or better.
2. Completion of one two-semester Research Seminar.
3. Completion of Historical Methods.
4. Reading competency in a language other than English.
5. Approval of this option by the Graduate Program Director, who will determine if the student is making satisfactory progress towards the Ph.D.

Combined BA/MA in History Pathway

This accelerated BA/MA degree pathway allows our highly qualified undergraduate students the opportunity to pursue a Master's degree in History while they are completing their undergraduate studies. Applicants must meet the admissions criteria for the graduate degree program to which they are applying.

Students who pursue this track must complete all requirements for the undergraduate history major, including the prerequisites and the senior seminar, our capstone course. As part of their combined pathway, students also will enroll in three 5000-level courses (9), which will count towards the B.A. and the M.A. After completing all undergraduate credits, including the double counted courses, students will receive the B.A. In their final year, they will take a total of 21 credit hours at the graduate level, including a two-semester Research Seminar (6 hours), Historical Methods (3 hours), and graduate seminars (12 hours).

Entrance Requirements

1. At the time of application, students must be scheduled to complete a minimum of 75 credits towards their

bachelors' degree by the end of the current semester. These credits must include at least 4 upper-division history courses (preferably at FIU). Students generally begin the application process at the beginning of first semester of their 3rd year.
2. Students who satisfy the above requirement may submit an application on a rolling basis, but the admission decision will not be finalized until the current semester's grades are posted.
3. Applicants must have at least a 3.25 upper-division GPA (UG60) and a minimum 3.5 GPA in upper-division FIU history courses. (Upper-division courses not taken at FIU may be considered at the discretion of the Graduate Committee.) These GPA requirements are minimum requirements, and admission is not guaranteed to students who meet those thresholds.
4. Applicants must provide two letters of recommendation from full-time FIU History faculty. (Letters from full-time faculty not at FIU may be considered at the discretion of the Graduate Committee.)
5. Applicants must write a statement of purpose and submit a writing sample that is relevant to the discipline.

The History Department's Graduate Committee will make the final decision regarding admission to the program. Students should consult the graduate catalog, the History Department website, and the Graduate Program Director for a more comprehensive discussion of admission and program requirements.

Credit/Course Requirements

Senior Year

In their senior year, students will complete three History courses at the 5000 level (9 credits) and complete the exit requirement for the undergraduate History major, the Senior Seminar, HIS 4935 (3 credits). Students will be advised to take one graduate class and the senior seminar in the first semester of their senior year, and two graduate classes in the second semester of their senior year.

Students must apply for graduation so that they will receive the B.A. at the end of their senior year.

Fifth Year

During the fifth year, students will complete 21 hours of graduate level work, including the following:

One two-semester; History Graduate Research Seminar (begins in Fall only)	6
Graduate Methods Course, HIS 6059	3
Four Courses at the 5000 or 6000 level, 5000-level courses taken in the fifth year may not be cross-listed with 4000-level courses	12

Students are expected to finish their MA coursework within a year of receiving their B.A.. Students who do not finish with a year may continue in the program at the discretion of the Graduate Program Director.

Doctor of Philosophy in History

The doctoral program in History offers students opportunities to concentrate on the areas of Latin America, Africa, the United States, or Europe. The program contains an underlying comparative framework based on the civilizations of the Atlantic, which allows students to explore the many dimensions of cross-cultural exchanges. The curriculum thus emphasizes the comparative framework around the Atlantic experience, and reflects the vitality of a cross-disciplinary approach, while allowing students to focus on their areas of interest.

Admission to the Program

Every applicant must complete an application form, and submit college transcripts, GRE scores and the application fee to the Office of Graduate Admissions. The online application includes curriculum vitae, writing sample, statement of research interests, and at least two letters of recommendation together with the waiver forms. For those transferring into the program who already hold the M.A., the thesis, when available, should be submitted as the sample. Admission requires a GRE score and a minimum undergraduate GPA of 3.25 in the upper level work. Applicants with the M.A. degree are required to have a graduate GPA of at least 3.25. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the iBT TOEFL (equivalent to 575 on the paper-based version of the Test of English as a Foreign Language) is required.

Admission into the doctoral program takes place once a year for entry in the Fall semester. Applicants should prepare all application materials in time for the Department of History and the Office of Graduate Admissions to receive them no later than January 15 for the following academic year's fall admissions. Applicants will usually be notified of the Department's recommendation regarding their application no later than March 15.

Degree Requirements

Number of Credits Required

A minimum of 75 credits are required for students entering the Ph.D. program without a M.A. in History, or 54 for those entering with a History M.A. from an accredited institution.

Language Requirements

All students must acquire reading competence in two languages other than English. The language requirement may be fulfilled in one of two ways: 1) achieving a High Pass on the departmental examination in one language, and at least a Pass on the second, or by receiving a grade of "B" or "B+", for Pass, and "A" or "A-", for High Pass, in an appropriate course approved for this purpose by the Director of Graduate Studies.; or 2) achieving a Pass or High Pass on the departmental examination in one language, and competency in social science quantitative skills, demonstrated by receiving a grade of "B" or "B+", for Pass, and "A" or "A-", for High Pass, in an appropriate course approved for this purpose by the Director of Graduate Studies. At least one High Pass must be received. Language requirements vary, according to the concentration fields. In cases where the dissertation will be in the history of US or English-speaking countries, one language plus the quantitative skill is sufficient. In Latin American history, either Spanish or Portuguese, and a second language appropriate to the student's field are required. Language exams will be graded on a High Pass, Pass, and Fail basis; a High Pass is required in the student's primary language. Students should check with the Department's Graduate Program Director to determine

which languages are appropriate for their program of studies.

Composition of Course Work

Course requirements for students entering the Ph.D. program without an M.A. are as follows:

1. HIS 6059 (Historical Methods), 3 credits.
2. Readings and Research in Atlantic Civilization (HIS 6906 and HIS 6918), 6 credits.
3. 24 credits are required in the student's core culture area to be chosen from the United States, Latin America and the Caribbean, Africa, or Europe, including at least 6 credits in a research seminar.
4. 15 credits are required in geographical/topical areas outside the culture area of concentration, 3 of which must be in comparative course (WOH or HIS, not including Historical Methods or Atlantic Civilization).
5. 12 elective credits, 9 of which may be taken outside the department with the permission of the Director of Graduate Studies.
6. 15 credits of dissertation research.

Course requirements for students entering the Ph.D. program with an M.A. in History are as follows:

1. HIS 6059 (Historical Methods), 3 credits. If HIS 6059 or an equivalent class from another institution has been taken previously, then 3 credits of comparative history (HIS or WOH) should be taken in lieu.
2. Readings and Research in Atlantic Civilization (HIS 6906 and HIS 6918), 6 credits.
3. 15 credits are required in the student's core culture area to be chosen from the United States, Latin America and Caribbean, Africa, or Europe, including at least 6 credits in a research seminar. If, however, students did not have at least 12 credits in their area of concentration in their MA, they must take an additional 3-6 credits in their area of concentration in lieu of the elective and comparative history requirements specified below.
4. 6 credits of outside culture area or of comparative history.
5. A minimum of 15 credits of dissertation research.

Comprehensive Examinations and the Dissertation

Following completion of all course work, satisfaction of language requirements, and the constitution of a dissertation committee, students will be required to pass a written and an oral comprehensive examination. After the completion of their comprehensive examinations and the approval of a dissertation proposal by their dissertation committee, students will write a doctoral dissertation. The time needed for the research and writing of dissertations in History is variable, although doctoral candidates normally spend one year engaged in continuous field research and a second year in full-time writing.

Restrictions

1. The grade of "B" or better is required for graduate credit.
2. At the end of the second semester of residence, or upon completion of the first 18 credit-hours of work, and every year thereafter, Ph.D. students must undergo an annual evaluation as required by the University Graduate School. The Graduate Program Director, the student's primary adviser, and/or the Dissertation Committee will examine and evaluate the student's progress and prospects. Students whose progress is deemed insufficient may be advised to withdraw from the program.
3. No more than 6 semester-hours of Topics (5935) courses toward meeting the degree requirements, without written permission of the Graduate Program Director.
4. No more than 6 semester-hours of HIS 5908 (Independent Study) toward meeting the degree requirements, without written permission of the Graduate Program Director.

MA in African and African Diaspora Studies/Ph.D. in History Combined Degree Pathway

The Combined African and African Diaspora Studies M.A./ Ph.D. in History pathway allows qualified graduate students to complete the M.A. in Combined African and African Diaspora Studies (M.A. in AADS) en route to the Ph.D. in History. This pathway will train doctoral students within the discipline of Atlantic History while giving them area studies expertise in African and African Diaspora Studies in order to help them stay competitive in seeking careers with an international focus in today's global cultural and intellectual environment. In tandem, these two programs can offer students an unusually close fit and remarkably beneficial synthesis in interdisciplinary approaches to both the Atlantic world and the African diasporic experience.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.0 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.25 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores;
4. International graduate student applicants whose native language is not English and have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the IBT TOEFL (equivalent to 575 on the paper-based version of the Test of English as a Foreign Language) is required.

Admission Procedure

To be accepted into this pathway, students must submit an application to the Ph.D. in History with a sub plan for a M.A. in African and African Diaspora Studies. This designation will appear in the menu of programs in the graduate application. Applicants should prepare all application materials in time for the Department of History and the Office of Graduate Admissions to receive them no later than January 15 for the following year's fall admissions. Applicants will be notified of the Department's recommendation regarding their application no later than March 15.

The following documents must be submitted as part of the application. They will be reviewed by the Admissions Committee from both units.

1. Official transcripts of all prior college-level work (undergraduate Bachelor's degree and any graduate transcripts);
2. Official GRE scores or equivalent;
3. Official TOEFL scores, if applicable;
4. A curriculum vita;
5. A detailed statement of research interests, reasons for seeking the M.A./Ph.D., future career goals, a summary of scholarly and extra-curricular activities, and the names of History Department faculty members who would be appropriate dissertation advisors (Note: Consult the department website for information about faculty members)
6. A writing sample (such as a seminar paper) which demonstrates the ability to conduct research and write effectively; and
7. Three letters of reference from academic sources or others able to judge academic abilities and potential.

In addition, an interview (in person or phone) with members of the M.A. in AADS Program and/or appropriate faculty in the Department of History is highly recommended.

M.A. in African and African Diaspora Studies (M.A. in AADS)

This 30-credit, one year, three-semester program occurring over the Fall, Spring, Summer includes 9 credits of core AADS courses, which includes 3 credits for the directed research paper exit option, 9 credits of core History courses, and 12 credits of electives. There is also a Foreign Language Requirement.

M.A. in AADS Core Courses: (9 credits)

AFA 5005	African and African Diaspora Studies Theory *(3 credits)*
AFA 5855	Research Methods in African and African Diaspora Studies *(3 credits)*
AFA 6920	AADS graduate colloquium *(3 credits – 1 credit over three semesters)*

Combined M.A. in AADS/PhD in History Core Courses: (9 credits)

HIS 6059 Historical Methods (3 credits)

6 credits in any of the following courses, or any other graduate History courses with an AADS focus.

AFA 6851	Advanced Seminar in African and African Diaspora Studies
AFH 5905	Readings in African History
AFH 5935	Topics in African History
AFH 6915	Research in African History
AFH 6932	Research Seminar in African History I
AFH 6933	Research Seminar in African History II
WOH 5236	The Transatlantic Slave Trade and the Making of African Diaspora, 1441-1807
WOH 5237	The African Diaspora Since the End of the Slave Trade

M.A. in AADS Elective (12 credits)

12 credits of elective courses with an AADS focus, at least 6 credits of which are from within the Department of History (making a total of 15 History credits) such as those on the following list:

AFA 6851	Advanced Seminar in African and African Diaspora Studies
AFH 5905	Readings in Asian History
AFH 5935	Topics in African History
AFH 6915	Research in African History
AFH 6932	Research Seminar in African History I
AFH 6933	Research Seminar in African History II
WOH 5236	The Transatlantic Slave Trade and the Making of African Diaspora, 1441-1807
WOH 5237	The African Diaspora Since the End of the Slave Trade

Students wishing to take courses outside of the Green School and/or the College of Arts & Sciences must seek prior approval from the Graduate Program Directors of the M.A. and PhD programs.

M.A. in AADS Research Proposal Option

To graduate from the M.A. in AADS, students enrolled in this combined M.A./Ph.D. pathway must either elect a research proposal option or research paper for their exit option. Those who elect to write a research proposal must take AFA 6911 Research Paper/ Proposal Writing in African and African Diaspora Studies.

M.A. in AADS Language Requirement

Students must demonstrate proficiency in a language other than English according to the nature of their thesis or research paper/proposal and professional interests.

Application for Graduation from M.A. in AADS

Students should apply for graduation for the M.A. in AADS as soon as they have completed all requirements for the degree – including the exit option. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in History.

Ph.D. in History

Students will begin study towards the Ph.D. in History immediately following their satisfactory completion of M.A. in AADS degree requirements. Students are expected to meet all the degree requirements for the Ph.D. in History, which requires a total of 75 credits.

Courses required ***in addition to*** the degree requirements for the M.A. in African and African Diaspora Studies (minimum 45 credits)

HIS 6906	Advanced Readings in Atlantic Civilization	3
HIS 6918	Research in Atlantic Civilization	3

6 credits outside of AADS and Atlantic Civilization (also excluding Methods), 3 credits of which must be in a comparative course (HIS or WOH prefix)

Electives		18
HIS 7980	Dissertation	15

Language Requirements

All students must acquire reading competence in two languages other than English. The language requirement may be fulfilled in one of two ways: 1) achieving a High Pass on the department examination in one language, and at least a Pass on the second; or 2) achieving a Pass or High Pass in departmental examination in one language, and competency in social science quantitative skills, demonstrated by receiving a grade of "B" or "B+", for Pass, and "A" or "A-", for High pass, in an appropriate course approved for this purpose by the Graduate Program

Director. At least one High Pass must be received. Language requirements vary, according to the concentration fields. In cases where the dissertation will be in the history of US or English-speaking countries, one language plus the quantitative skill is sufficient. In Latin American history, either Spanish or Portuguese, and a second language appropriate to the student's field are required. Language exams will be graded on a High Pass, Pass, and Fail basis; a High pass is required in the student's primary language. Students should check with the Department's Graduate Program Director to determine which languages are appropriate for their program of studies.

Comprehensive Examinations and the Dissertation

Following completion of all course work, satisfaction of language requirements, and the constitution of a dissertation committee, students will be required to pass a written and an oral comprehensive examination. After the completion of their comprehensive examinations and the approval of a dissertation proposal by their dissertation committee, students will write a doctoral dissertation. The time needed for the research and writing of dissertations in History is variable, although doctoral candidates normally spend one year engaged in continuous field research and a second year in full-time writing.

Restrictions

1. The grade of "B" or better is required for graduate credit.
2. At the end of the second semester of residence, or upon completion of the first 18 credit-hours of work, the Graduate Committee will examine and evaluate the student's progress and prospects. Professors will provide detailed written evaluations of the work of all first-year Ph.D. students they have taught. Students whose progress is deemed insufficient will be advised to withdraw from the program.
3. No more than 6 semester-hours of Topics (5935) courses toward meeting the degree requirements, without permission of the Graduate Program Director.
4. No more than 6 semester-hours of HIS 5908 (Independent Study) toward meeting the degree requirements, without permission of the Graduate Program Director.

Combined Master of Arts in Asian Studies/Doctor of Philosophy in History Degree Pathway

The combined M.A. in Asian Studies/Ph.D. in History pathway allows qualified graduate students to pursue both degrees simultaneously. To be accepted into this pathway, students must simultaneously submit applications for the M.A. in Asian Studies and the Ph.D. in History. Applicants must meet the admission eligibility requirements and follow the admission procedures for both programs.

Students must fulfill the requirements for both programs, and up to 36 credits may count for both degrees. To graduate, students must complete the requirements of the History doctoral program, including the required 75 hours.

During their first two years of enrollment in this combined degree pathway, students will enroll in the following coursework which fulfills the Asian Studies M.A. requirements:

Master of Arts in Asian Studies

Requirements

(30 credits Thesis Option / 30 credits Non-Thesis Option)

Core Courses: (24 credits)

- 9 credits of ASN 5000 or 6000 courses approved by the director
- 9 credits pertaining to world affairs
- 6 credits in Asian area studies

MAAS offers two exit options, Thesis or Non-Thesis

Thesis Exit Option: (6 credits)

ASN 6972 Master's Thesis

Non-Thesis Exit Option: (6 credits)

ASN 6912 Master's Essay (3 credits and one additional course (3 credits)

Master's Essay can be taken multiple times. Some students may be encouraged to develop their research projects by taking this course.

Students will begin study towards the Ph.D. is History immediately following their satisfactory completion of MAAS degree requirements. Students are expected to meet at the degree requirements for the Ph.D. in History, which requires a total of 75 credits.

Doctor of Philosophy in History

Courses required in addition to the degree requirements for the M.A. in Asian Studies (minimum 42-45 credits depending on MA Option selected)

- 3 credits Advanced Readings in Atlantic Civilization (HIS 6906)
- 3 credits Research in Atlantic Civilization (HIS 6918)
- 6 credits outside of Asian Studies and Atlantic Civilization (also excluding Methods), 3 credits of which must be in a comparative course (HIS or WOH prefix)
- 15-18 credit electives depending on MA Option
- 15 credits Ph.D. Dissertation (HIS 7980)

M.A. in Latin American and Caribbean Studies/Ph.D. in History Combined Degree Pathway

The Combined Latin American and Caribbean Studies M.A./Ph.D. in History pathway allows qualified graduate students to complete the M.A. in Latin American and Caribbean Studies (MALACS) IN route to the Ph.D. in History. Capitalizing on the intellectual affinities between the graduate programs in Latin American and Caribbean Studies and in Atlantic History, the pathway allows students to enroll simultaneously in both programs and to count 30 credits of coursework toward fulfillment of the requirements for both graduate degrees. The M.A. program provides a multi-disciplinary perspective on the region as well as deep expertise on the region's history, culture and political economy, while the Ph.D. Program in Atlantic History is aimed at honing students' skills in historical methods while training them to approach individual nations and regions of Latin America and the Caribbean as sites of broader exchanges along the Atlantic corridor.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.0 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.25 on any previous graduate work;
3. (Verbal and Quantitative) Official Graduate Record Exam (GRE) scores, for International students, a minimum score of 525 on the EXADEP (Spanish version of the GRE); or a minimum of 590 on the GMAT;
4. International graduate student applicants whose native language is not English and have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the IBT TOEFL (equivalent to 575 on the paper-based version of the Test of English as a Foreign Language) is required.

Admission Procedure

To be accepted into this pathway, students must submit an application to the Ph.D. in History with a sub plan for a M.A. in Latin American and Caribbean Studies. This designation will appear in the menu of programs in the graduate application. Applicants should prepare all application materials in time for the Department of History and the Office of Graduate Admissions to receive them no later than January 15 for the following year's fall admissions. Applicants will be notified of the Department's recommendation regarding their application no later than March 15.

The following documents must be submitted as part of the application. They will be reviewed by the Admissions Committee from both units.

1. Official transcripts of all prior college-level work (undergraduate Bachelor's degree and any graduate transcripts);
2. Official GRE scores or equivalent;
3. Official TOEFL scores, if applicable;
4. A curriculum vita;
5. A detailed statement of research interests, reasons for seeking the M.A./Ph.D., future career goals, a summary of scholarly and extra-curricular activities, and the names of History Department faculty members who would be appropriate dissertation advisors (Note: Consult the department website for information about faculty members)
6. A writing sample (such as a seminar paper) which demonstrates the ability to conduct research and write effectively; and
7. Three letters of reference from academic sources or others able to judge academic abilities and potential.

In addition, an interview (in person or phone) with members of the MALACS Program and/or appropriate faculty in the Department of History is highly recommended.

M.A. in Latin America and Caribbean Studies

Thirty graduate credits are required for the MALACS, including 9 credits of core courses, 15 credits within an area of focus, 3 credits of breadth courses and 3 credits for the directed research paper or internship exit options. There is also a Foreign Language Requirement. The thesis exit option requires 6 exit option credits, but reduces the area of focus requirement to 12 credits.

MALACS Core Courses: (9 credits)

LAS 6003	Survey of Latin America
LAS 6934	Research Seminar in Latin American and Caribbean Studies
HIS 6059	Historical Methods

MALACS Focus Courses: (12 to 15 credits total depending on the exit option)

LAH 6932	Research Seminars in Latin American History I
LAH 6933	Research Seminars in Latin American History II

6 credits from the following list:

LAH 5905	Readings in Latin American History
LAH 5935	Topics in Latin American History
LAH 6906	Advanced Readings in Latin American History
LAH 6915	Research in Latin American History

MALACS Breadth Courses: (3 credits from other areas)

MALACS Exit Option for Combined Degree Program: (3 to 6 credits)

Students select one of the following options:

LAS 6970 Thesis 6

Students complete a thesis paper supervised by three committee members. All members of the committee must have FIU Graduate Faculty Status.

or

LAS 6942 Internship in Latin American and Caribbean Studies 3

Supervised internship leading to a major research paper in Latin American and Caribbean Studies

or

LAS 6905 Directed Research in Latin American and Caribbean Studies 3

Students complete one directed research paper of about 35-40 pages.

MALACS Language Requirement

Each student is required to demonstrate proficiency in either Spanish or Portuguese, or in another language such as French or Haitian Creole when justified by research interests. Proficiency demonstrated by scoring an advanced level on the ACTFL exam for Spanish, Portuguese, or French administered by FIU's Department of Modern Languages. Other tests of proficiency may be accepted upon approval of the graduate advisor.

Application for Graduation from MALACS

Students should apply for graduation for the MALACS as soon as they have completed all requirements for the degree – including the exit option. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in History.

Ph.D. in History

Students will begin study towards the Ph.D. in History immediately following their satisfactory completion of MALACS degree requirements. Students are expected to meet all the degree requirements for the Ph.D. in History, which requires a total of 75 credits.

Courses required ***in addition to*** the degree requirements for the M.A. in Latin American and Caribbean Studies (minimum 45 credits)

HIS 6906	Advanced Readings in Atlantic Civilization	3
HIS 6918	Research in Atlantic Civilization	3
3 credits in LACS		
9 credits outside of LACS and Atlantic Civilization (also excluding Methods), 3 credits of which must be in a comparative course (HIS or WOH prefix)		
Electives		12
HIS 7980	Dissertation	15

Language Requirements

All students must acquire reading competence in two languages other than English. The language requirement may be fulfilled in one of two ways: 1) achieving a High Pass on the department examination in one language, and at least a Pass on the second; or 2) achieving a Pass or High Pass in departmental examination in one language, and competency in social science quantitative skills, demonstrated by receiving a grade of "B" or "B+", for Pass, and "A" or "A-", for High pass, in an appropriate course approved for this purpose by the Graduate Program Director. At least one High Pass must be received. Language requirements vary, according to the concentration fields. In cases where the dissertation will be in the history of US or English-speaking countries, one language plus the quantitative skill is sufficient. In Latin American history, either Spanish or Portuguese, and a second language appropriate to the student's field are required. Language exams will be graded on a High Pass, Pass, and Fail basis; a High pass is required in the student's primary language. Students should check with the Department's Graduate Program Director to determine which languages are appropriate for their program of studies.

Comprehensive Examinations and the Dissertation

Following completion of all course work, satisfaction of language requirements, and the constitution of a dissertation committee, students will be required to pass a written and an oral comprehensive examination. After the completion of their comprehensive examinations and the approval of a dissertation proposal by their dissertation committee, students will write a doctoral dissertation. The time needed for the research and writing of dissertations in History is variable, although doctoral candidates normally spend one year engaged in continuous field research and a second year in full-time writing.

Restrictions

1. The grade of "B" or better is required for graduate credit.
2. At the end of the second semester of residence, or upon completion of the first 18 credit-hours of work, the Graduate Committee will examine and evaluate the student's progress and prospects. Professors will provide detailed written evaluations of the work of all first-year Ph.D. students they have taught. Students whose progress is deemed insufficient will be advised to withdraw from the program.
3. No more than 6 semester-hours of Topics (5935) courses toward meeting the degree requirements, without permission of the Graduate Program Director.
4. No more than 6 semester-hours of HIS 5908 (Independent Study) toward meeting the degree requirements, without permission of the Graduate Program Director.

Course Descriptions

Definition of Prefixes

AFH-African History; AMH-American History; ASH-Asian History; EUH- European History; HIS-General; LAH-Latin American History; WOH-World History.

AFH 5905 Readings in African History (3). An examination of historiographical traditions within African history. Topics will vary; with a change in theme, the course may be repeated. Prerequisite: Graduate standing.

AFH 5935 Topics in African History (3). An examination of specific themes in African history. Topics will vary. With a change in theme, the course may be repeated. Prerequisite: Graduate standing.

AFH 6915 Research in African History (3). Research in primary and secondary sources on African History. Subjects may vary. May be repeated with departmental approval. Prerequisite: Graduate standing.

AFH 6932 Research Seminar in African History I (3). Semester one of a two-semester research seminar investigating topics in African history. Topics may vary. May be repeated with approval of Graduate Program Director.

AFH 6933 Research Seminar in African History II (3). Semester two of a two-semester research seminar investigating topics in African history. Prerequisite: AFH 6932. May be repeated with approval of Graduate Program Director.

AMH 5905 Readings in American History (3). Students read books from different historiographical traditions and with conflicting interpretations about an important subject in American history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

AMH 5935 Topics in American History (3). An examination of specific themes or topics in American history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

AMH 6906 Advanced Readings in American History (3). Detailed analysis of a selected topic in American History. May be repeated as topics vary. Prerequisite: Graduate standing.

AMH 6915 Research in American History (3). Students conduct research in primary and secondary sources on aspects of important subjects in American History. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

AMH 6932 Research Seminar in American History I (3). Semester one of a two-semester research seminar investigating topics in American history. Topics may vary. Semester one of a two-semester research seminar investigating topics in American history. Topics may vary. May be repeated with approval of Graduate Program Director.

AMH 6933 Research Seminar in American History II (3). Semester two of a two-semester research seminar investigating topics in American history. Topics may vary. Prerequisite: AMH 6932. May be repeated with approval of Graduate Program Director.

ASH 5446 Readings in Japanese History (3). Students read books from different historiographical traditions and with conflicting interpretations about a subject in Japanese history. Subject will vary according to professor. Repeat with approval. Prerequisite: Graduate standing.

ASH 5905 Readings in Asian History (3). Graduate reading seminar dedicated to issues of gender, identity, and authority in China, Japan, and other regions of Asia.

ASH 5930 Topics in Asian History (3). An examination of topics in Asian history such as gender, modernization, transnational encounters, or the intersection of culture and politics. Comparative approach emphasized.

EUH 5905 Readings in European History (3). Students read books from different historiographical traditions and with conflicting interpretations about an important subject in European history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

EUH 5935 Topics in European History (3). An examination of specific themes or topics in European history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

EUH 6906 Advanced Readings in European History (3). Detailed analysis of a selected topic in European history. May be repeated as topics vary. Prerequisite: Graduate standing.

EUH 6915 Research in European History (3). Students conduct research in primary and secondary sources on aspects of important subjects in European History. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

EUH 6932 Research Seminar in European History I (3). Semester one of a two-semester research seminar investigating topics in history. Topics may vary. May be repeated with approval of Graduate Program Director.

EUH 6933 Research Seminar in European History II (3). Semester two of a two-semester research seminar investigating topics in European History. Topics may vary. May be repeated with approval of Graduate Program Director. Prerequisite: EUH 6932. May be repeated with approval of Graduate Program Director.

HIS 5067 Public History Theory and Practice (3). Theory and methods of history in non-academic settings, with practical interactions with professional and institutions such as museums, monuments, archives, parks, and government. Prerequisite: Graduate standing. May be repeated with approval of Graduate Program Director.

HIS 5084 History, Memory and the Public (3). Critical examination of theories and texts on museums, monuments, archives, historical sites, community organizations, and/or oral histories. Specific topical focus to be determined by instructor. Prerequisite: Graduate standing, may be repeated with approval of Graduate Program Director.

HIS 5289 Comparative History (3). A study of specific topics in history that cut across regional, national, and chronological lines. The topics will change from semester to semester, and with a change in content, the course may be repeated. (The topic of the course will be announced in the yearly schedule). Prerequisite: Graduate standing.

HIS 5347 History of Social Thought (3). Examines the evolution of major currents in Western social thought from the nineteenth century to the present, emphasizing how these ideas have influenced historians' work.

HIS 5908 Independent Study (VAR). Individual conferences, assigned readings and reports on independent investigations, with the consent of the instructor. Prerequisite: Graduate standing.

HIS 5910 Advanced Research Seminar (3). Small group sessions will analyze particular subject areas in history, with the consent of the instructor. Prerequisite: Graduate standing.

HIS 5930 Special Topics (3). An examination of specific themes or topics in history. The theme will vary from semester to semester, and with a change in content, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

HIS 5940 Supervised Teaching (1-3). The students will work under the close supervision of a regular member of the faculty in a mentorial fashion. The supervision will cover various aspects of course design and delivery in history. Prerequisite: Graduate standing.

HIS 6059 Historical Methods (3). A seminar designed to introduce the beginning graduate student to the technical aspects of the study of history. Prerequisite: Graduate standing.

HIS 6159 Historiography (3). An introduction to the discipline of history, with primary and secondary readings allowing exploration of the evolution of historical schools of thought over several generations. Prerequisite: Graduate standing.

HIS 6906 Advanced Readings in Atlantic Civilization (3). A team-taught, comparative course dealing with the interactions between at least two of the geographical fields of concentration. May focus on one or more topics. Required of all Ph.D. students during their first term of study in the program. Prerequisite: Graduate standing. May be repeated with approval of Graduate Program Director.

HIS 6909 Summer Doctoral Study Seminar (3). Doctoral students work under the close supervision of a member of the Graduate Faculty in a mentorial fashion in designing pre-dissertation research, preparation for comprehensive exams, and/or proposal writing for grants and fellowships

to fund dissertation research. Prerequisite: Graduate standing.

HIS 6918 Research in Atlantic Civilization (3). A research seminar on cross-cultural topics, involving the comparative method. Required of all Ph.D. students in the program, during second term of residence. Topics will vary. Prerequisite: Graduate standing. May be repeated with approval of Graduate Program Director.

HIS 6942 Internship in Public History (3-6). Offers hands-on experience in public history and museum studies to students in public history option. Prerequisites: Enrollment in History MA Option in Public History; permission of the instructor.

HIS 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. May be repeated. Prerequisite: Permission of Department.

HIS 7980 Ph.D. Dissertation (1-12). Completion of Doctoral Dissertation. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

LAH 5905 Readings in Latin American History (3). Students read books from different historiographical traditions and with conflicting interpretations about an important subject in Latin American history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

LAH 5935 Topics in Latin American History (3). An examination of specific themes or topics in Latin American history. The theme will vary from semester to semester. With a change in theme, the course may be repeated. (The theme will be announced in the yearly schedule). Prerequisite: Graduate standing.

LAH 6906 Advanced Readings in Latin American History (3). Detailed analysis of a selected topic in Latin American history. May be repeated as topics vary. Prerequisite: Graduate standing.

LAH 6915 Research in Latin American History (3). Students conduct research in primary and secondary sources on aspects of important subjects in Latin American history. Subjects will vary according to professor. Course may be repeated with departmental approval. Prerequisite: Graduate standing.

LAH 6932 Research Seminar in Latin American History I (3). Semester one of a two-semester research seminar investigating topics in Latin American History. Topics may vary. May be repeated with approval of Graduate Program Director.

LAH 6933 Research Seminar in Latin American History II (3). Semester two of a two-semester research seminar investigating topics in Latin American history. Topics may vary. May be repeated with approval of Graduate Program Director. Prerequisite: LAH 6932.

WOH 5236 The Transatlantic Slave Trade and the Making of African Diaspora, 1441-1807 (3). Topics include slavery and economy in Africa and the Diaspora, as well as Diasporic religion, kinship, gender, sexuality, language, oral tradition, resistance, and creolization.

WOH 5237 The African Diaspora Since the End of the Slave Trade (3). Primary emphasis on history of social and intellectual movements. Topics include slave resistance, black nationalism, socialism, anticolonialism, gender, art and literature, and afrocentrism.

WOH 5935 Topics in World History (3). An examination of specific themes in World History. Topics will vary with a change in theme, the course may be repeated. Prerequisites: Permission of the instructor or graduate standing.

WOH 6227 Global Economic History (3). Global economy 1500-present. Industrialization, trade, finance, and labor in Europe, US, Asia, Latin America. Comparative economic systems. Prerequisite: Graduate standing.

WOH 6932 Research Seminar in World History I (3). Semester one of a two-semester research seminar investigating topics in World history. Topics may vary.

WOH 6933 Research Seminar in World History II (3). Semester two of a two-semester research seminar investigating topics in World history. Topics may vary. Prerequisite: WOH 6932.

Kimberly Green Latin American and Caribbean Studies

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The Master of Arts in Latin American and Caribbean Studies (MALACS) is a unique interdisciplinary program that allows students to design their program based on their own research and career interests. The Program is particularly valuable to those students whose research and professional interests cannot be accommodated within a single discipline. MALACS students study the religious, political, economic, social and cultural processes shaping Latin America and the Caribbean and emerge from the program with the expertise required to become leaders in a variety of fields, including education, government, non-governmental business and social services organizations, among others. Students may choose to focus on a particular country, region, discipline, or topic such as, but not limited to, migration, comparative sociology, Cuban studies, cultural studies, economics, environmental studies, foreign policy and security studies, Haitian studies, Hispanic literature, history, international business, international development, and politics/ international relations.

MALACS is administered by the FIU Kimberly Green Latin American and Caribbean Center (LACC), one of the largest area and language studies centers in the US that specializes in the region. In addition to the MALACS degree, LACC also administers joint JD/MALACS and MBA/MALACS degree programs that allow the student to receive both degrees in substantially less time than would be required to pursue each degree individually. LACC also administers partnership degree programs with the Joint Forces Staff College and the Western Hemisphere Institute for Security Cooperation (WHINSEC). More information on joint and partnership degrees is found at the end of this section.

For further information please contact LACC Academic Programs Director, Kimberly Green Latin American and Caribbean Center, Florida International University, Modesto A. Maidique Campus DM 353, Miami, Florida 33199. Phone: (305) 348-2894; Fax: (305) 348-3593; email: **MALACS@fiu.edu**, or see the MALACS web site at **http://lacc.fiu.edu**.

Admission Requirements

Applicants must meet the following minimum admissions requirements:

1. Completed FIU graduate application.
2. A baccalaureate degree from an accredited institution for higher education, or equivalent.
3. A grade-point average of at least 3.0 on a 4.0 scale (or equivalent) for the last two years of undergraduate study and for any post baccalaureate study.
4. Official GRE scores or other exams such as EXADEP, GMAT or LSAT.
5. A statement of purpose consistent with the goals of the program.
6. Three letters of recommendation, at least two of which must come from current or former professors.
7. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
8. Application for M.A. assistantship or fellowship (if applicable).
9. Approval by the program admissions committee.

Note: The above admission requirements are minimums and not all students meeting them are assured admission. Students with either a grade-point average or GRE score below the above minimums may still apply and request conditional admission. The student must provide an explanation of why the waiver is being requested.

Degree Requirements

The MA in Latin American and Caribbean Studies (MALACS) program is a highly flexible program requiring a total of 30 graduate credits. Required core courses include two research methods courses and an interdisciplinary course (9 credits). Students work with the Graduate Program advisor to design a cohesive and focused program. Twelve to Fifteen credits are taken in a depth area, and three credits are comprised of breadth courses. All courses must be passed with a grade of “B” or better. MALACS offers three graduation exit options that comprise either six (thesis) or three credits (internship or directed research paper). All courses to be counted

towards the degree must have a minimum of 25% Latin American and Caribbean content and/or be a LACC approved course. Course requirements are distributed as follows:

- 9 credits, core
- 12 to 15 credits, depth (area of focus)
- 3 credits, breadth (electives)
- 3 to 6 credits, exit option

Required Core Courses (9 credits)

The core courses consist of an interdisciplinary overview course in Latin America and the Caribbean and two courses in MALACS approved research methods. First-year MALACS students enroll in a required interdisciplinary research methods course. In their second year, students select a research methods course in their depth area from the approved list and/or with the approval of the graduate advisor. The core courses and credits are distributed as follows:

LAS 6003	Survey of Latin America and the Caribbean	3
LAS 6934	Latin American and Caribbean Research Seminar	3
Research Methods*		3

**(selected from approved list and/or with the approval of the graduate advisor)*

MALACS Depth Courses or Area of Focus (12 to 15 credits)

MALACS students choose to concentrate on a particular country, region, discipline, or topic that serves as the focus of their study of Latin America or the Caribbean. Disciplinary areas (e.g. business, religious studies, art history, anthropology, history, political science) emphasize training and research within a particular academic department, while topical and regional areas (e.g. migration, Cuban studies, public policy, international relations, and gender studies) cluster coursework and research around specific issues or geographic regions. A primary goal of the coursework is to advance the student's core research area and expertise.

Breadth Requirements (3 credits)

Students select three credits from the MALACS approved course list.

All courses to be counted toward the degree must have a minimum of 25% Latin American and/or Caribbean course content.

Foreign Language

Each student is required to demonstrate proficiency in either Spanish or Portuguese, or in another language such as French or Haitian Creole when justified by research interests. Proficiency demonstrated by scoring an advanced level on the ACTFL exam for Spanish, Portuguese, or French administered by FIU's Department of Modern Languages. Other tests of proficiency may be accepted upon approval of the graduate advisor.

Advanced level on the ACTFL exam (2+ on the US government scale) can normally be attained by students with six undergraduate semesters of language instruction (in basic, intermediate and advanced level). Attainment of the required language proficiency is the responsibility of the student and extra instruction to achieve the required proficiency level must be taken outside the MALACS curriculum. Fellowships and scholarships to study Portuguese and Haitian Creole are available to selected MALACS students. Opportunities for students to improve their language proficiency is provided in courses offered by the FIU Modern Languages Department, through special summer institute language programs, and by taking designated Foreign Language Across Curriculum (FLAC) courses. Completion of a FLAC course meets the MALACS language proficiency requirement.

Exit Options (3 to 6 credits)

MALACS students select one of the following options:

LAS 6970	Thesis	6

Students complete a thesis paper supervised by three committee members. All members of the committee must have FIU Graduate Faculty Status.

or

LAS 6942	Internship in Latin American and Caribbean Studies	3

Supervised internship leading to a major research paper in Latin American and Caribbean Studies

or

LAS 6905	Directed Research in Latin American and Caribbean Studies	3

Students complete one directed research papers of about 35-40 pages each.

Professional Development Activities

Students must complete a minimum of 39 points of professional development prior to graduation. A short 1-2 page response paper submitted to MALACS graduate directors and/or advisors is required as documentation for participation in the non-research paper activities. Activities may consist of the following:

- Published article (25 pts.)
- Public research proposal presentation at a conference (15 pts. per student conference; 20 for professional conference presentation)
- MALOKA (graduate student organization), University Graduate School, or other approved FIU community service, professional development or peer mentoring activities (3 pts. per activity)
- Attendance at LACC lectures, symposiums, colloquiums, conferences or other approved scholarly events (3 pts. per lecture; 6-9 pts. per conference or extended event)

Students should meet with their graduate advisor during advising sessions twice per year to discuss options for the completion of professional development points.

M.A. in Latin American and Caribbean Studies/Ph.D. in Global and Sociocultural Studies Combined Degree Pathway

The combined Latin American and Caribbean Studies M.A. (MALACS)/Global & Sociocultural Studies Ph.D. pathway allows qualified graduate students to pursue both degrees at the same time. Students can develop an expertise in Latin American and Caribbean Studies while progressing towards a Ph.D. in one of the three majors in

the Global and Sociocultural Studies Ph.D.: geography, sociology, or anthropology.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores;
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the internet-based TOEFL (equivalent to 550 on the paper-based version) or a 6.5 overall on the IELTS is required.

Admission Procedures

To be accepted into this pathway, students must submit an application to the Ph.D. in Global and Sociocultural Studies with a sub-plan for a M.A. in Latin American and Caribbean Studies. This designation will appear in the menu of programs in the graduate application. To be accepted into this pathway, students must submit an application by March 1 in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the on-line application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable.
5. Statement of purpose explaining his/her interest for enrolling in both the MALACS program and in the Ph.D. program in GSS. The statement of purpose must clearly address the applicant's academic and professional objectives for enrolling in both fields of inquiry. The statement of purpose must also indicate the intended major (anthropology, geography, or sociology) the applicant plans to select while engaged in the Ph.D. in GSS;
6. Three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability;
7. A curriculum vitae; and
8. Writing samples and other relevant professional work that may support their applications.

Degree Requirements for M.A. in Latin American and Caribbean Studies

The 30 credits earned for the M.A. in LACC (MALACS) will count towards the 75 credits required for the Ph.D. in GSS.

MALACS Core (9 credits)

LAS 6003	Survey of Latin America
LAS 6934	Research Seminar
ISS 6305	Research Methods and Design
or	
ISS 6317	Social Research Quantitative Methods I

Dept Courses or Area of Focus (12 to 15 credits)

These must include courses Required for GSS Track

SYA 6127	Theory and Inquiry
ISS 6305	Research Methods and Design
or	
ISS 6317	Social Research Quantitative Methods I
SYA 6959	Writing Research Proposals

Breadth Requirements (3 credits)

Students select three credits from the MALACS approved course list.

MALACS Research Proposal

To graduate from the MALACS program, students enrolled in this combined M.A./Ph.D. pathway must take the proposal writing course SYA 6959 Writing Research Proposals during the semester prior to enrolling in the required exit options in the MALACS program.

MALACS Exit Options (3 to 6 credits)

Students select one of the following options:

LAS 6790 Thesis 6

Students complete a thesis paper supervised by three committee members. All members of the committee must have FIU Graduate Faculty status.

or

LAS 6942 Internship in Latin American and Caribbean Studies 3

Supervised internship leading to a major research paper in Latin American and Caribbean Studies.

or

LAS 6905 Directed Research in Latin American and Caribbean Studies 3

Students complete one directed research paper of about 35 -40 pages.

MALACS Language Requirement

Students must demonstrate proficiency in a language other than English according to the nature of their thesis or research paper/proposal and professional interests.

Application for Graduation from MALACS program

Students should apply for graduation for the MALACS degree as soon as they have completed all requirements for the degree – including the exit option. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in GSS.

Matriculation to PhD in GSS

All students must undergo a successful M.A. review upon completion of the MALACS Program requirements in order to continue toward the Ph.D. in GSS. The GSS Graduate Committee, along with an appointee from LACC, conducts these reviews. The purpose of the M.A. review is to determine the ability of the student to do Ph.D. level work with the department's faculty. Among the information considered during the review are a student's overall performance, grades in courses, and faculty recommendations.

Degree Requirements for Ph.D. in Global and Sociocultural Studies

The doctorate in Global and Sociocultural Studies requires a minimum of 75 credits beyond the baccalaureate including a dissertation based on original research. 30 credits of the MALACS program will count toward the 75-credit minimum. Thus, a minimum of 45 credits must be earned beyond the M.A.

Major Courses (33 credits)

All doctoral students will choose a major in Anthropology, Geography, or Sociology. The following distribution of coursework is required.

(a) Major theory (3)
(b) Major methods (3)
(c) Major course electives (6 minimum)
(d) Exam and dissertation credits and GSS and non-GSS Department electives
- Doctoral Exam Preparation (6 maximum)
- Doctoral Dissertation (15 minimum)

General Electives (6 credits)

GSS and non-GSS Department electives

Ph.D. General Examination

After successfully completing the common core requirements, the major's course requirements, and electives, a student prepares for the Ph.D. General Exam by enrolling in a maximum of six credits of exam preparation for their major. In preparation for the exam, a student forms a dissertation committee according to the regulations published on the University Graduate School web page (http://gradschool.fiu.edu). The Ph.D. General Exam addresses the student's anticipated dissertation topic, and is conducted according to the University Graduate School Policies and Procedures Manual and the Department's Ph.D. General Exam guidelines.

The Dissertation Proposal and Defense/Candidacy Exam

After passing the Ph.D. General Exam, a student works under the guidance of the dissertation committee to prepare a dissertation proposal and defend it orally before the committee. The chair of the dissertation committee must hold Dissertation Advisor Status from the University Graduate School. The proposal defense serves as the doctoral candidacy exam for the Ph.D. program in Global and Sociocultural Studies. Upon passing the proposal defense, a student is admitted to candidacy status.

The Dissertation and Dissertation Defense

After successfully defending a dissertation proposal, a student conducts the proposed research and completes a dissertation under the guidance of a dissertation committee. Only after successfully defending the dissertation proposal may a student register for dissertation hours (ANG 7980, GEO 7980, or SYA 7980). The Ph.D. program requires a student to be continuously enrolled in a minimum of 3 hours of Doctoral Dissertation each semester from the time of advancement to candidacy until completion of the dissertation, including summers. Upon completion of the dissertation manuscript and authorization by the committee, a student defends the dissertation before the committee and the University community. The University Graduate School's regulations governing the dissertation are described at **http://gradschool.fiu.edu**.

MA in Latin American and Caribbean Studies/Ph.D. in History Combined Degree Pathway

The Combined Latin American and Caribbean Studies M.A./Ph.D. in History pathway allows qualified graduate students to complete the M.A. in Latin American and Caribbean Studies (MALACS) in route to the Ph.D. in History. Capitalizing on the intellectual affinities between the graduate programs in Latin American and Caribbean Studies and in Atlantic History, the pathway allows students to enroll simultaneously in both programs and to count 30 credits of coursework toward fulfillment of the requirements for both graduate degrees. The M.A. program provides a multi-disciplinary perspective on the region as well as deep expertise on the region's history, culture and political economy, while the Ph.D. Program in Atlantic History is aimed at honing students' skills in historical methods while training them to approach individual nations and regions of Latin America and the Caribbean as sites of broader exchanges along the Atlantic corridor.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.0 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.25 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores or, for International students, a minimum score of 525 on the EXADEP (Spanish version of the GRE); or a minimum of 590 on the GMAT;
4. International graduate student applicants whose native language is not English and have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the IBT TOEFL (equivalent to 575 on the paper-based version, or 232 on the computer-based version of the Test of English as a Foreign Language) is required.

Admission Procedure

To be accepted into this pathway, students must submit an application to the Ph.D. in History with a sub plan for a M.A. in Latin American and Caribbean Studies. This designation will appear in the menu of programs in the graduate application. Applicants should prepare all application materials in time for the Department of History and the Office of Graduate Admissions to receive them no later than December 1 for the following year's fall admissions. Applicants will be notified of the Department's recommendation regarding their application no later than March 15.

The following documents must be submitted as part of the application. They will be reviewed by the Admissions Committee from both units.

1. Official transcripts of all prior college-level work (undergraduate Bachelor's degree and any graduate transcripts);
2. Official GRE scores or equivalent;
3. Official TOEFL scores, if applicable;
4. A curriculum vita;
5. A detailed statement of research interests, reasons for seeking the M.A./Ph.D., future career goals, a summary of scholarly and extra-curricular activities, and the names of History Department faculty members who would be appropriate dissertation advisors (Note: Consult the department website for information about faculty members)
6. A writing sample (such as a seminar paper) which demonstrates the ability to conduct research and write effectively; and
7. Three letters of reference from academic sources or others able to judge academic abilities and potential.

In addition, an interview (in person or phone) with members of the MALACS Program and/or appropriate faculty in the Department of History is highly recommended.

MA in Latin America and Caribbean Studies

Thirty graduate credits are required for the MALACS, including 9 credits of core courses, 15 credits within an area of focus, 3 credits of breadth courses and 3 credits for the directed research paper or Internship exit options. There is also a Foreign Language Requirement. The thesis exit option requires 6 exit option credits, but reduces the area of focus requirement to 12 credits.

MALACS Core Courses: (9 credits)

LAS 6003	Survey of Latin America
LAS 6934	Research Seminar in Latin American and Caribbean Studies
HIS 6059	Historical Methods

MALACS Focus Courses: (12 to 15 credits total depending on the exit option)

LAH 6932	Research Seminars in Latin American History I
LAH 6933	Research Seminars in Latin American History II

9 credits from the following list:

LAH 5905	Readings in Latin American History
LAH 5935	Topics in Latin American History
LAH 6906	Advanced Readings in Latin American History
LAH 6915	Research in Latin American History

MALACS Breadth Courses: (3 credits from other areas)

MALACS Exit Option for Combined Degree Pathway: (3 to 6 credits)

Students select one of the following options:

LAS 6790	Thesis	6

Students complete a thesis paper supervised by three committee members. All members of the committee must have FIU Graduate Faculty status.

or

LAS 6942	Internship in Latin American and Caribbean Studies	3

Supervised internship leading to a major research paper in Latin American and Caribbean Studies.

or

LAS 6905	Directed Research in Latin American and Caribbean Studies	3

Students complete one directed research paper of about 35 -40 pages.

MALACS Language Requirement

Each student is required to demonstrate proficiency in either Spanish or Portuguese, or in another language such as French or Haitian Creole when justified by research interests. Proficiency demonstrated by scoring an advanced level on the ACTFL exam for Spanish, Portuguese, or French administered by FIU's Department of Modern Languages. Other tests of proficiency may be accepted upon approval of the graduate advisor.

Application for Graduation from MALACS

Students should apply for graduation for the MALACS as soon as they have completed all requirements for the degree – including the exit option. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in History.

Ph.D. in History

Students will begin study towards the Ph.D. in History immediately following their satisfactory completion of MALACS degree requirements. Students are expected to meet all the degree requirements for the Ph.D. in History, which requires a total of 75 credits.

Courses required ***in addition to*** the degree requirements for the M.A. in Latin American and Caribbean Studies (minimum 45 credits)

HIS 6906	Advanced Readings in Atlantic Civilization	3
HIS 6918	Research in Atlantic Civilization	3

3 credits in LACS

9 credits outside of LACS and Atlantic Civilization (also excluding Methods), 3 credits of which must be in a comparative course (HIS or WOH prefix)

Electives		12
HIS 7890	Dissertation	15

Language Requirements

All students must acquire reading competence in two languages other than English. The language requirement may be fulfilled in one of two ways: 1) achieving a High Pass on the department examination in one language, and at least a Pass on the second; or 2) achieving a Pass or High Pass in departmental examination in one language, and competency in social science quantitative skills, demonstrated by receiving a grade of "B" or "B+", for Pass, and "A" or "A-", for High pass, in an appropriate course approved for this purpose by the Graduate Program Director. At least one High Pass must be received. Language requirements vary, according to the concentration fields. In cases where the dissertation will be in the history of US or English-speaking countries, one language plus the quantitative skill is sufficient. In Latin American history, either Spanish or Portuguese, and a second language appropriate to the student's field are required. Language exams will be graded on a High Pass, Pass, and Fail basis; a High pass is required in the

student's primary language. Students should check with the Department's Graduate Program Director to determine which languages are appropriate for their program of studies.

Comprehensive Examinations and the Dissertation

Following completion of all course work, satisfaction of language requirements, and the constitution of a dissertation committee, students will be required to pass a written and an oral comprehensive examination. After the completion of their comprehensive examinations and the approval of a dissertation proposal by their dissertation committee, students will write a doctoral dissertation. The time needed for the research and writing of dissertations in History is variable, although doctoral candidates normally spend one year engaged in continuous field research and a second year in full-time writing.

Restrictions

1. The grade of "B" or better is required for graduate credit.
2. At the end of the second semester of residence, or upon completion of the first 18 credit-hours of work, the Graduate Committee will examine and evaluate the student's progress and prospects. Professors will provide detailed written evaluations of the work of all first-year Ph.D. students they have taught. Students whose progress is deemed insufficient will be advised to withdraw from the program.
3. No more than 6 semester-hours of Topics (5935) courses toward meeting the degree requirements, without permission of the Graduate Program Director.
4. No more than 6 semester-hours of HIS 5908 (Independent Study) toward meeting the degree requirements, without permission of the Graduate Program Director.

Combined M.A. in Latin American and Caribbean Studies (MALACS)/Ph.D. in International Relations Degree Pathway

The Combined Latin American and Caribbean Studies M.A./International Relations Ph.D. pathway allows qualified graduate students to pursue graduate degrees in both areas simultaneously rather than sequentially. Students must fulfill the requirements for both programs, and up to 30 credits completed as part of the M.A. in MALACS will be counted toward the 75 credit Ph.D. in International Relations.

To be considered for admission, students must meet the following requirements:

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. (Verbal and Quantitative) Graduate Record Exam (GRE) scores;
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the internet-based TOEFL (equivalent to 575 on the paper-based version) or 6.5 overall on the IELTS is required.

Although admissions decisions typically are made in the spring, decisions for students who have not yet received their bachelor's degree will be conditional, pending confirmation of the B.A. Meeting the minimum requirements does not guarantee admission into the program. All applications are subject to review by the members of the Department of Politics and International Relations and the MALACS admissions committee.

Admission Procedures

To be accepted into this pathway, students must submit an application to the Ph.D. in International Relations with a sub-plan for a M.A. in LACS. This designation will appear in the menu of programs in the graduate application. The application must be submitted by January 15 in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the on-line application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable.
5. A statement of research interests, including reasons for seeking the M.A./Ph.D., future career goals, and a summary of scholarly preparation for this pathway;
6. Three letters of reference from academic sources or others able to judge academic abilities and potential; and
7. A curriculum vitae.

Masters of Arts in Latin America and Caribbean Studies Degree Requirements (30 credits)

During their first two years of enrollment in the Combined Degree Pathway, students must complete 30 credits for an M.A. in Latin America and Caribbean Studies with depth or focus courses in International Relations.

MALACS Core Courses (9 credits)

During their first two years of enrollment in this combined degree pathway, students take three core courses as follows:

LAS 6003	Survey of Latin America and the Caribbean (first year, fall semester)	3
LAS 6934	Research Seminar (first year, spring semester)	3
INR 5615	Research Design in International Relations	3

MALACS Focus Courses (12 to 15 credits)

Students will take a minimum of 12 to 15 credits within the Department of Politics and International Relations with a Latin American and/or Caribbean focus.

MALACS Breadth Courses (3 credits)
Student may take courses from other areas.

MALACS Exit Options for Combined Degree Pathway (3 to 6 credits)
Students select one of the following options:

LAS 6790	Thesis	6

Students complete a thesis paper supervised by three committee members. All members of the committee must have FIU Graduate Faculty status.

or

LAS 6942	Internship in Latin American and Caribbean Studies	3

Supervised internship leading to a major research paper in Latin American and Caribbean Studies.

or

LAS 6905	Directed Research in Latin American and Caribbean Studies	3

Students complete one directed research paper of about 35 -40 pages.

Each student is required to demonstrate proficiency in either Spanish or Portuguese, or in another language such as French or Haitian Creole when justified by research interests. Proficiency demonstrated by scoring an advanced level on the ACTFL exam for Spanish, Portuguese, or French administered by FIU's Department of Modern Languages. Other tests of proficiency may be accepted upon approval of the graduate advisor.

Students should apply for graduation for the MALACS M.A. as soon as they have completed all requirements for the degree – including the exit requirements. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in International Relations.

Doctor of Philosophy in International Relations Degree Requirements

Students will begin study towards the Ph.D. in International Relations immediately following their satisfactory completion of MALACS requirements. A minimum of 45 credits beyond the 30 credits required for the MALACS degree will be necessary to satisfy the requirements of the Ph.D. Program in International Relations.

Program Requirements

15 Core Course credits:

GEO 6473	Space, Place and Identity	3
INR 6604	International Relations Theory I	3
INR 6608	Contemporary International Relations Theory	3
INR 5609	Contemporary Dynamics of International Relations	3
INR 6706	Political Economy of International Relations	3

12 Major Field credits in either:
1. Global Institutions and Issues,
2. Comparative Area Studies,
3. Foreign Policy and Security Studies, or
4. International Law.

With advisor approval, these 12 credits may include some or all of the coursework (except INR 5615) taken in satisfaction of the requirements for the MALACS degree.

9 Minor Field credits in either:
1. a second field from the above major field list, or
2. a field offered within another Ph.D. program at FIU (with approval of the Graduate Program Director), or
3. a petition field (with approval of the Graduate Program Director).

With advisor approval, these 9 credits may include some or all of the coursework (except INR 5615) taken in satisfaction of the requirements for the MALACS degree.

Elective Credits:
Elective credits necessary to bring total credits earned beyond the MALACS degree to a minimum of 24.

Dissertation:
15 credits of dissertation research.

Comprehensive Exams

After completing 60 hours of course work (or in the semester in which they expect to do so), students may take their written comprehensive examinations on the core sequence and in both of their fields. Students must sit for these examinations within 6 months of completing the minimum 60 hours of coursework unless granted an extension by the International Relations Graduate Program Director.

Dissertation

Within 3 months of passing the comprehensive examinations, students should publicly present a dissertation proposal that is acceptable to a committee of at least four qualified scholars. Three members of the committee, including the dissertation supervisor, must be graduate faculty members of the Department of Politics and International Relations. One must be from outside the department, but inside FIU. Other members must be approved by the International Relations Graduate Program Director. To complete program requirements, Ph.D. degree candidates must enroll for a minimum of 15 dissertation credits and maintain enrollment for 3 credits every semester until the degree is awarded.

Combined M.A. in Latin American and Caribbean Studies (MALACS)/Ph.D. in Political Science Degree Pathway

The Combined M.A. in Latin American and Caribbean Studies/Ph.D. in Political Science pathway allows qualified graduate students to pursue graduate degrees in both areas simultaneously. Students must fulfill the requirements for both programs, and up to 30 credits completed as part of the M.A. in MALACS will be counted toward the 76 credit Ph.D. in Political Science.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.
Baccalaureate degree from an accredited institution for higher education (or equivalent);
1. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.25 on any previous graduate work;
2. (Verbal and Quantitative) Graduate Record Exam (GRE) scores;

3. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the internet-based TOEFL (equivalent to 550 on the paper-based version) or a 6.5 overall on the IELTS is required.

Although admissions decisions typically are made in the spring, decisions for students who have not yet received their bachelor's degree will be conditional, pending confirmation of the B.A. Meeting the minimum requirements does not guarantee admission into the program. All applications are subject to review by both the members of the Department of Politics and International Relations and the MALACS Graduate Committee.

Admission Procedure

To be accepted into this pathway, students must submit an application to the Ph.D. in Political Science with a sub-plan for a M.A. in LACS. This designation will appear in the menu of programs in the graduate application. The application must be submitted by February 1 in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable.
5. A statement of research interests, including reasons for seeking the M.A./Ph.D., future career goals, and a summary of scholarly preparation for this pathway;
6. Three letters of reference from academic sources or others able to judge academic abilities and potential.
7. A curriculum vitae; and
8. A writing sample (such as a seminar paper) which demonstrates the ability to conduct research and write effectively.

Masters of Arts in Latin America and Caribbean Studies Degree Requirements (30 credits)

During their first two years of enrollment in the Combined Degree Program, students must complete 30 credits for an M.A. in Latin America and Caribbean Studies with depth or focus courses in Political Science.

MALACS Core Courses (9 credits)
During their first two years of enrollment in this combined degree pathway, students take three core courses as follows:

LAS 6003	Survey of Latin America and the Caribbean (first year, fall semester)	3
LAS 6934	Research Seminar (first year, spring semester)	3
POS 5706	Research Methods	3

MALACS Focus Courses (12 to 15 credits)
Students will take a minimum of 12 to 15 credits within the Department of Politics and International Relations with a Latin American and/or Caribbean focus.

MALACS Breadth Courses (3 credits)
Student can take courses from other areas

MALACS Exit Options for Combined Degree Pathway (3 to 6 credits)
Students select one of the following options:

LAS 6790	Thesis	6

Students complete a thesis paper supervised by three committee members. All members of the committee must have FIU Graduate Faculty status.

or

LAS 6942	Internship in Latin American and Caribbean Studies	3

Supervised internship leading to a major research paper in Latin American and Caribbean Studies.

or

LAS 6905	Directed Research in Latin American and Caribbean Studies	3

Students complete one directed research paper of about 35 -40 pages.

Each student is required to demonstrate proficiency in either Spanish or Portuguese, or in another language such as French or Haitian Creole when justified by research interests. Proficiency demonstrated by scoring an advanced level on the ACTFL exam for Spanish, Portuguese, or French administered by FIU's Department of Modern Languages. Other tests of proficiency may be accepted upon approval of the graduate advisor.

Students should apply for graduation for the M.A. in LACS as soon as they have completed all requirements for the degree – including the exit requirements. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in Political Science.

Doctor of Philosophy in Political Science Degree Requirements

Students will begin study towards the Ph.D. in Political Science immediately following their satisfactory completion of MALACS requirements. A minimum of 46 credits beyond the 30 credits required for the MALACS degree will be necessary to satisfy the requirements of the Ph.D. Program in Political Science.

The total of 76 credits for a Ph.D. in Political Science include the following:

Program Requirements:

7 Required Course Credits:

POS 5702	Teaching Political Science	1
POS 5716	Foundations of Political Science	3
POS 6918	Seminar in Political Science Research Methods	3

12 Common Core Course credits:

CPO 5091	Seminar in Comparative Politics	3
INR 5007	Seminar in International Politics	3
POS 5045	Seminar in American Politics	3
POT 5007	Seminar in Political Theory	3

12 Credits in Two Examination Fields from the following:

1. American Politics,
2. Comparative Politics,
3. International Politics, and
4. Political Theory.

With advisor approval, these 12 credits may include some or all of the coursework (except POS 5706) taken in satisfaction of the requirements for the MALACS degree.

9 Credits in Third Area Specialization:
With advisor approval, these 9 credits may include some or all of the coursework (except POS 5706) taken in satisfaction of the requirements for the MALACS degree.

Elective Credits:
Elective credits necessary to bring total credits earned beyond the MALACS degree to a minimum of 40.

Dissertation:
24 Dissertation course credits.

Comprehensive Examination

After satisfactory completion of course work, students will take comprehensive exams in their two chosen subfields before being admitted to candidacy and defending a dissertation proposal. The comprehensive exams will cover core courses and broad knowledge of the two examination fields. They will be written and oral. Comprehensive examinations are given twice yearly, in mid-September and mid-January.

Dissertation (Minimum 24 credits)

After being admitted to candidacy, students enroll for dissertation credits under the supervision of their dissertation advisors. Candidates will prepare and defend a dissertation proposal. Upon completion of the dissertation itself, a public defense of the dissertation will be scheduled in accordance with University policy.

MALACS Joint and Partnership Degree Pathways

Joint JD/MALACS Degree Pathway

An agreement approved by the University Graduate School, between the FIU College of Law and the Steven J. Green School of International and Public Affairs allows students to pursue simultaneously the Juris Doctor (JD) and MALACS degrees, thereby saving considerable time over pursuing each degree separately. Students must meet the entrance requirements for both the JD and MALACS programs. Fifteen credits from the law school curriculum will be allowed toward the MALACS program and will constitute a MALACS concentration in International and Comparative Law. Nine credits from the MALACS program will also count toward the law school curriculum requirements. All other requirements to receive either the JD or MALACS degree must be met. Additional information on the joint degree program is available on the College of Law and MALACS web sites.

Joint MBA/MALACS Degree Pathway

An agreement approved by the University Graduate School, between the FIU Alvah H. Chapman, Jr. Graduate School of Business and the Steven J. Green School of International and Public Affairs allows students to pursue simultaneously the Master's in Business Administration (MBA) and MALACS. In doing so the student will finish both programs much sooner than if they pursue each degree separately. Students must meet the entrance requirements for both the MBA and MALACS programs. Twelve credits from the MBA curriculum will be allowed toward the MALACS program and will constitute a MALACS concentration in International Business. Nine credits from the MALACS program will also count toward the MBA curriculum requirements. All other requirements to receive either the MBA or MALACS degree must be met. Additional information on the joint degree pathway is available on the Chapman Graduate School of Business and MALACS web sites.

MALACS Partnership with the Joint Forces Staff College

An agreement between FIU and the Joint Forces Staff College (JFSC) of the National Defense University allows JFCS graduates to transfer 15 JFSC credits toward the MALACS degree completion requirements. Students will receive a MALACS concentration in Foreign Policy and Security Studies from JFSC courses. Students wishing to take advantage of this partnership must be accepted into the MALACS program through normal application procedures. Once accepted, students are required to take 15 credit hours of MALACS courses (5 classes): a research methods class, LAS 6003, LAS 6930, and two breadth courses in at least two MALACS concentrations other than Security Studies. JFSC students must also complete a MALACS exit option (6 credit hours) and meet MALACS language proficiency requirements. Additional information on the JFSC partnership degree pathway is available on the MALACS web site.

Course Descriptions

Definitions of Prefixes

FLAC – Foreign Language Across Curriculums; LAS – Latin American and Caribbean Studies.
F – Fall semester offering; S – Spring semester offering; SS – Summer semester offering.

LAS 5120 Ecuador Abroad: Andean Shamanism, Religion, and Ritual (3). Offered in conjunction with the study abroad program in Ecuador and focuses on the indigenous spirituality and religion on the Andes. Field experience includes community service, lectures, workshops. Prerequisite: Graduate standing.

LAS 5301 Culture and Society in the Rio de la Plata (3). Argentinean and Uruguayan societies through an interdisciplinary approach and a series of relevant texts. Prerequisite: Permission of the instructor.

LAS 5325 Survey of Brazil (3). Multidisciplinary survey of the literature of history, politics, society, and culture of Brazil.

LAS 5335 Survey of the Caribbean (3). Multidisciplinary, multimedia survey of the history, politics, societies and cultures of the countries of the Caribbean.

LAS 5907 Independent Study (1-3). Supervised readings or field research and training. Prerequisite: Permission of the instructor. (F,S,SS)

LAS 5920 Teaching Latin American Studies (1). Fundamentals in the teaching of Latin American Studies. Relevance and effectiveness of various methods and strategies, as well as pedagogy-related exercises. Prerequisite: Graduate standing. (F)

LAS 5931 Special Topics in Latin America and the Caribbean (3). Topics in Latin America and the Caribbean will be selected to meet the academic needs of groups of students.

LAS 5933 Graduate Seminar in Latin American Studies (3). Exposes graduate students to interdisciplinary issues for students pursuing the MA in Latin American and Caribbean Studies. May be repeated up to 3 times with change of topic. Prerequisite: Graduate Standing. (F,S,SS)

LAS 5955 Haiti Study Abroad (3). Study abroad examination of Haitian Politics and Society. Part of Haitian Summer Institute. Prerequisite: Graduate standing.

LAS 6003 Survey of Latin America (3). A multidisciplinary, multimedia survey of the history, politics, societies and cultures of the countries of Latin America and the Caribbean. Prerequisite: Graduate standing. (F)

LAS 6905 Directed Research in Latin American and Caribbean Studies (3). Directed research under a major professor conducted to meet MALACS graduation requirements instead of a thesis. Two directed research courses are required. Prerequisite: Completion of all MALACS courses. (F,S,SS)

LAS 6930 Latin American and Caribbean Data Analysis (3). This course introduces students to basic empirical data analysis techniques while they complete an empirical research project in a Latin American or Caribbean topic. Prerequisite: Recommend a graduate research design course. (S)

LAS 6934 Research Seminar in Latin American and Caribbean Studies (3). Introduces students to intermediate level research methods while they complete a directed research project in Latin American and Caribbean studies. Prerequisites: LAS 6930 or equivalent. (F)

LAS 6942 Internship in Latin American and Caribbean Studies (1-6). Supervised internship leading to a major research paper in Latin American and Caribbean Studies. Prerequisite: All MALACS coursework completed. (F,S,SS)

LAS 6970 Thesis (1-6). Requires students to enroll for thesis research for at least one credit hour every semester until thesis is completed. Prerequisite: Completion of all MALACS courses. (F,S,SS)

MALACS Approved Courses

A sample of courses approved for each MALACS concentration is provided on the MALACS web site at **http://lacc.fiu.edu**.

Courses approved for the MALACS program are posted each semester on the FIU Class Schedule at **http://lacc.fiu.edu/catalog/**. (Under "Special Programs and Certificate Programs" select "Latin American & Caribbean Studies.") All courses listed from 5000 through 7000 series may be applied to the degree program. Approved courses are also posted each semester outside LACC (DM 353) or are available from the Graduate Program Director.

Modern Languages

Pascale S. Bécel, *Associate Professor and Chairperson*
Nicolas André, *Associate Teaching Professor*
Melissa L. Baralt, *Associate Professor*
Jean-Robert J. Cadely, *Associate Professor*
Erik Camayd-Freixas, *Professor*
James O. Crosby, *Professor Emeritus*
Andrea Fanta Castro, *Associate Professor*
María Antonieta García, *Teaching Professor*
Myriam García, *Teaching Professor*
Nicola Gavioli, *Associate Teaching Professor*
María Asunción Gómez, *Professor*
Yvonne Guers-Villate, *Professor Emerita*
Marie D. Guiribitey, *Teaching Professor*
Santiago Juan-Navarro, *Professor*
Naoko Komura, *Teaching Professor*
Maria Krol, *Associate Teaching Professor*
Luana Lamberti Nunes, *Assistant Professor*
Li Ma, *Teaching Professor*
Peter A. Machonis, *Professor*
Asuka Mashav, *Teaching Professor*
José Morcillo-Gómez, *Assistant Teaching Professor*
Magda Novelli Pearson, *Teaching Professor*
Ana Roca, *Professor Emerita*
Medardo, Rosario, *Assistant Professor*
Renée M. Silverman, *Associate Professor*
Shenggao Wang, *Associate Teaching Professor*
Maida Watson-Espener, *Professor*

Master of Arts in Spanish

Admission Requirements

To be admitted into the Master's degree program, a student must:

1. Hold a Bachelor's degree in Spanish from an accredited university or college. Special cases, such as holders of a degree in a related field, will be evaluated individually by the Department.
2. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
3. Have attained a minimum 3.0 grade point average (B average), during the last two years of her/his undergraduate program as determined by the FIU Graduate Admissions Office.
4. Demonstrate the ability to speak and write in Spanish with native or near-native proficiency. Demonstrate the ability to read English with excellent proficiency. An examination may be necessary. Contact the Director of Graduate Study (305-348-2851; Modern Languages, FIU, Miami, FL, 33199). Students may be required to complete certain course work before beginning graduate study.
5. Apply for graduate admission to the Graduate Admissions Office and submit the following documentation: a) two letters of recommendation from former professors employers, and/or other, b) a resume or CV, c) a statement of purpose in English or Spanish, addressing the candidate's goals and objectives in pursuing a master's degree in Spanish, d) a writing sample in Spanish, preferably a term paper or thesis, of analytical nature, on a literary subject and e) A 60-second video submission, in Spanish, where you introduce yourself and explain why you want to pursue a graduate degree.
6. Receive approval of the departmental graduate committee. **Admission is competitive and meeting all minimum requirements does not guarantee automatic entrance into the program.**

Degree Requirements

The Master's degree program consists of 33 semester hours of graduate level work. A maximum of six credits of graduate course work may be transferred into the program from other institutions, subject to the approval of the departmental graduate committee. Six core courses and three elective courses are required at the 5000-and 6000-level. Some courses have prerequisites which do not count toward the degree. All core courses in literature must be taken with or after SPW 5806. Courses taken before SPW 5806 are considered to be electives.

Core Courses: (18 credits)

SPW 5806	Methods of Literary Research	3
FOL 5800	Foreign Language Teaching Methodology	3
One course in peninsular Spanish Literature of the 19th or 20th-21st centuries.		3
One course in either Medieval Spanish Literature or Literature of the Golden Age.		3
Two courses in Spanish American Literature. (Colonial or 20th-21st centuries)		6

Electives

A student must take at least nine graduate credits of electives, as follows: three in Spanish or Latin American literature, and six from one or more of the following areas: Spanish or Spanish American literature, Linguistics, Translation/Interpretation, or Culture of Spain, Latin America or Hispanics in the United States.

Graduation Requirements

To receive the M.A. degree in Spanish, a student must complete all the course work with a 3.0 GPA or higher, and receive a minimum grade of 'B' in every course. Upon completion of 27 graduate credits (core and elective courses), students will have the option of writing a thesis (equivalent to six credits), or taking two elective courses and writing a research paper. The thesis will be presented to an ad hoc committee chosen by the student and his or her advisor. The research paper must be submitted to a committee of two professors of the Department. Upon completion of 33 credits, the student will be required to take Comprehensive Examinations, based on course work and on the Department's Graduate Reading List (the exams must be passed with a minimum grade of 'B'; they may be taken no more than twice).

Master of Arts in Spanish (*en route* Ph.D. track)

Admission Requirements

Only students who have been admitted to the Ph.D. program without previously receiving an M.A. in Spanish or Spanish-American literature are eligible to pursue this track.

Degree Requirements

1. Completion of 39 hours of graduate course work in Spanish and Spanish-American Literature, including 18 credits of core courses:

SPW 5806	Methods of Literary Research	3
FOL 5800	Foreign Language Teaching Methodology	3
One course in peninsular Spanish Literature of the 19th or 20th-21st centuries.		3
One course in either Medieval Spanish Literature or Literature of the Golden Age.		3
Two courses in Spanish American Literature. (Colonial or 20th-21st centuries)		6

All course work must be taken at FIU, and receive a grade of "B" (3.0) or better.

2. Approval of this option by the Spanish Graduate Committee members, who will determine if the student is making satisfactory progress towards the Ph.D.

Master of Arts in Spanish with an Emphasis in Spanish Applied Language, Culture, and Literature

Core Courses: (6 credits)

FOL 5800	Foreign Language Teaching Methodology	3
SPW 5806	Methods of Literary Research	3

Graduate Spanish courses in Spanish Applied Language/Linguistics. Courses must be taught in Spanish. (9 credits)

Graduate Spanish courses in Literature, Spanish Culture, and/or Spanish Film courses. Courses must be taught in Spanish. (9 credits)

Graduate English course in Linguistics or Literature. (3 credits)

Elective Courses from Modern Languages and/or any FIU School or Department

Up to 6 credits of electives. Elective courses can be taken in Modern Languages and/or any School or Department at FIU. Electives from outside MOL must be approved by the Graduate Program Director.

Graduation Requirements To receive the M.A. degree in Spanish Applied Language, Culture, and Literature, a student must complete all the course work with a 3.0 GPA or higher, and receive a minimum grade of 'B' in every course. Upon completion of 27 graduate credits (core and elective courses), students will prepare a fully online portfolio in Spanish to be assessed.

Combined BA/MA in Spanish Degree Pathway

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway, but the application must be submitted to Graduate Admissions before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Current enrollment in the BA in Spanish at FIU.
2. Current GPA must be 3.5 or higher.
3. Completed at least 75 credits of course work.
4. Two letters of recommendation.
5. A writing sample consisting of a research paper in Spanish of an analytical nature – preferably a term paper or thesis – on a literary subject.
6. A resume.
7. A statement of purpose, addressing the candidate's goals and objectives in pursuing a master's degree in Spanish.
8. A 60-second video submission, in Spanish, where you introduce yourself and explain why you want to pursue a graduate degree.
9. Approval of the Spanish Graduate Committee.

Completion Requirements

Required Courses for the BA: (33 credits)

SPN 3301	Review Grammar and Writing*	3
	or	
SPN 3343	Advanced Spanish for Native Speakers*	3
SPN 3422	Advanced Grammar and Composition*	3
SPW 3820	Peninsular Spanish Literature	3
SPW 3130	Spanish American Literature	3
SPN 3733	General Linguistics (or equivalent)	3
One additional course in Spanish Linguistics		3
One additional course in Spanish		3
	or	
Spanish American Literature		3

*(Students who have advanced proficiency in Spanish may replace the six language credits with electives in Spanish at the 3000 or 4000 level with the written permission of their advisors).

Electives

Twelve credits of electives

Overlap

Nine credits will be taken at the 5000 or 6000 level and may be used to satisfy both the Bachelor's and Master's degree requirements.

Required Courses for the MA: (33 credits)

SPW 5806	Methods of Literary Research	3
FOL 5800	Foreign Language Teaching Methodology	3
One course in either Medieval Spanish Literature		3
	or	
Literature of the Golden Age		3
One course in Peninsular Spanish Literature of the 19th or the 20th centuries		3
Two courses in Spanish American Literature		6

Electives
Six graduate credits of electives, as follows: 3 in Spanish or Spanish American Literature, and 3 from one or more of the following areas: Spanish or Spanish American Literature, Linguistics, Translation/Interpretation, or Spanish American Culture.

Comprehensive Exams
The comprehensive examinations should be taken the semester immediately following the completion of all course work.

Doctor of Philosophy in Spanish

The doctoral program in Spanish offers students the opportunity to specialize in one of two major fields: Peninsular Spanish Literature or Spanish American Literature.

Admission Requirements

To be admitted to the doctoral program, a student must:

1. Hold a Bachelor's degree in Spanish from an accredited college or university. Special cases, such as holders of a degree in a related field, will be evaluated individually by the Department.
2. Demonstrate the ability to speak, understand, read, and write in Spanish with native or near-native proficiency. Demonstrate the ability to speak and read in English with excellent proficiency. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
3. Have attained a minimum 3.0 grade point average (B average), during the last two years of her/his undergraduate program as determined by the FIU Graduate Admissions Office, and submit GRE or EXADEP scores. Applicants with Master's degrees are required to have a graduate GPA of 3.5 in all graduate courses.
4. Apply for graduate admission to the Admissions Office and submit the following documentation: a) two letters of recommendation from former professors, employers, and/or other, b) a resume or CV, c) a statement of purpose in English, addressing the candidate's goals and objectives in pursuing a doctorate in Spanish, and d) a writing sample in Spanish, preferably a term paper or thesis, of analytical nature, on a literary subject and e) A 60-second video submission, in Spanish, where you introduce yourself and explain why you want to pursue a graduate degree.
5. Receive approval of the departmental Graduate Studies Committee. **Admission is competitive, and meeting all minimum requirements does not guarantee automatic entrance to the program.**

Degree Requirements

The doctoral program consists of 75 semester hours of graduate level work beyond the Bachelor's degree, distributed as follows: 57 graduate credits of courses and 18 credits of dissertation. Students holding Master of Arts degrees in Spanish or Hispanic Studies will be considered for admission and some or all of their graduate credits may be counted toward the doctoral degree after being evaluated and approved by the Graduate Studies Committee. Students will be able to transfer a maximum of 36 graduate credits from an earned graduate degree.

Core Courses: (9 credits)
All core courses must be taken as graduate courses offered by the university and may not be taken as independent studies:

1. SPW 5806 Methods of Literary Research
2. FOL 5800 Foreign Language Teaching Methodology
3. SPW 6825 Literary Theory and Criticism

Distribution Requirement: (15 credits)
All students must take:
One course in Medieval or Golden Age Peninsular Spanish Literature
One course in Peninsular Spanish Literature of the 18th-21st century
One course in Colonial/19th century Spanish American Literature
One course in 20th century Spanish American Literature
One additional course in Spanish American Literature

Electives: (33 credits)
Students may choose from graduate courses in Hispanic literature, linguistics, culture, and translation/interpretation.

Dissertation: (18 credits)

Graduation Requirements

To receive a Ph.D. in Spanish, a student must complete all courses with a GPA of 3.0 or higher, and receive a minimum grade of 'B' in every course. Before graduation the student must demonstrate a reading knowledge of a language other than English or Spanish, chosen by the student in consultation with her/his adviser. Upon completion of 57 graduate credits beyond the Bachelor's degree, students must take a qualifying written examination which will determine whether they are permitted to continue their studies toward the doctorate or whether they should be terminated, with or without a master's degree. Qualifying examinations must be passed with a minimum grade of 'B' and may not be taken more than twice. A student is formally considered a doctoral candidate upon successful completion of the examinations. Students must write and successfully defend a doctoral dissertation before a committee of three graduate faculty members from the Department of Modern Languages and an FIU graduate faculty member from a different department.

Course Descriptions

Definition of Prefixes
CAT-Catalan Language; FIL-Film; FOL-Foreign Languages; FOT-Foreign Languages in Translation; FOW-Foreign Languages, Comparative Literature; FRE-French Language; FRT-French Translation; FRW-French Literature (Writings); GER-German Language; HAI-Haitian Creole Language; JPT-Japanese Culture in Translation or Translation Skills; JPW-Japanese Literature (Writings); LIN-Linguistics; SPN-Spanish Language; SPT-Spanish Translation; SPW-Spanish Literature (Writings); TSL-Teaching English as a Second Language.

(See English listing for additional Linguistics courses.) Application of basic language skills.

CAT 5505 Introduction to Catalan Culture, Literature and Language (3). Catalan culture and society through literary and visual texts. Provides also an introduction to Catalan language. Prerequisite: Advanced level of Spanish.

FIL 5825 Spanish Film (3). The history of film in Spain and discussions of films by the most important 20th Century directors.

FIL 5846 Latin American Film (3). The study of 20th Century films and documentaries produced by leading Latin American directors. Films are examined in relation to Latin American Society and its literary creations.

FOL 5735 Romance Linguistics (3). The common and distinctive Romance features. Survey of linguistic geography and internal/external influences.

FOL 5800 Foreign Language Teaching Methodology (3). Introduction to the theory and practice of teaching foreign language methodology. Prerequisite: Graduate standing.

FOL 5906 Independent Study (1-3). Project, field experience, readings, or research.

FOL 5945 Foreign Exchange Internship (0). Foreign exchange students perform graduate research in the Department of Modern Languages and English as a co-requisite to their assistantship in the Modern Languages Department.

FOT 5125 Literature in Translation (3). Masterpieces of world literature. Open to students who are proficient in more than one language.

FOT 5805 Translation/Interpretation Arts (3). The language barrier and translation and interpretation. Types, modes, and quality of T/I: philological, linguistic, and sociolinguistic theories. History of T/I from Rome to date. The impact of T/I on Inter-American developments. Prerequisites: Graduate standing or permission of the instructor.

FOW 5395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama).

FOW 5545 Bicultural Writings (3). Experiment in linguistic pluralism. Content and focus to be determined by the international community.

FOW 5587 Comparative Studies (3). Cross-over and distinctiveness in a multi-language problem, period, or aesthetic.

FOW 5934 Special Topics in Language/Literature (3). Content and objectives to be determined by students and teacher.

FOW 5938 Graduate Seminar (3). Topic and approach to be determined by students and instructor. (Approval of the Department required.)

FRE 5060 Language for Reading Knowledge I (3). Designed primarily for graduate students who wish to attain proficiency for M.A. and Ph.D. requirements. Open to any student who has no prior knowledge of the language.

FRE 5061 Language for Reading Knowledge II (3). Emphasis on translation of materials from the student's field of specialization. Prerequisites: FRE 5060 or equivalent..

FRE 5508 La Francophonie (3). Analysis of the different varieties of French spoken outside of France. Includes Quebec French, African French, and French Creoles. Also examines the political alliance of Francophone countries. Credit will not be given for both FRE 4503 and FRE 5508. Prerequisite: Graduate standing.

FRE 5735 Special Topics in Linguistics (3). Content to be determined by students and instructor. Prerequisite: Graduate standing.

FRE 5755 Old French Language (3). Introduction to the phonology, morphology, and syntax of the Old French language. Reading and analysis of the 12th and 13th century texts in their original. Comparison of major medieval dialects. Prerequisite: Graduate standing.

FRE 5845 History of the Language I (3). The internal and external history of the French language from Latin to Old French. Examination of some of the first texts written in French. Credit will not be given for both FRE 4840 and FRE 5845. Prerequisite: Graduate standing.

FRE 5846 History of the Language II (3). External and internal history of the French language from 1400 to the present. Examination of first dictionaries and grammars of French. Survey of recent linguistic legislation concerning the French language. Credit will not be given for both FRE 4841 and FRE 5846. Prerequisite: Graduate standing.

FRE 5855 Structure of Modern French (3). Systematic study of the phonology, morphology, syntax, and lexicon of Modern French. Taught in English. Credit will not be given for both FRE 4850 and FRE 5855. Prerequisite: Graduate standing.

FRE 5908 Independent Study (1-3). Project, field experience, readings, or research. Prerequisite: Graduate standing.

FRT 5805 Translation/Interpretation Arts (3). Techniques of professional translation and interpretation. Prerequisite: FRT 4801.

FRW 5395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry), or the study of interaction between literary types (e.g. novel and drama). Prerequisite: Graduate standing.

FRW 5934 Special Topics in Language Literature (3). Content and objectives to be determined by student and instructor. Prerequisite: Graduate standing.

FRW 5938 Graduate Seminar (3). Topic and approach to be determined by students and instructor. Prerequisite: Graduate standing.

GER 5060 German for Reading Knowledge (3). Designed primarily for graduate students who wish to attain proficiency for M.A. or Ph.D. requirements. Open to any student who has no prior knowledge of the language.

GER 5061 German for Reading Knowledge (3). Emphasis on translation of materials from the student's field of specialization. Prerequisites: GER 5060 or the equivalent.

HAI 5235 Haitian Creole Seminar (3). A study of the phonological and morpho-syntactic structures of Haitian Creole. Patterns of language usage and attitude. Prerequisite: Graduate standing.

JPN 5907 Independent Study (1-3). Designed for advanced Japanese language proficiency utilizing specialized research projects, field experience, readings and other area studies.

JPT 5396 Japanese Literature and Film (3). A critical overview of modern Japanese literature and film, addressing socio-cultural and philosophical issues in the context of historical and cultural transformations. Prerequisites: Graduate student status or permission of the instructor.

JPW 5133 Advanced Reading and Translating Japanese Literature (3). Close reading of wide range of literacy texts in Japanese across genres. Students will learn to read and analyze authentic material in the original language, as well as the methods and techniques of literacy translation. Prerequisites: Graduate student status or permission of the instructor.

LIN 5207C Acoustic Phonetics (3). Introduction to principles of acoustic and instrumental phonetics, including the physics of speech sounds and use of the sound spectrograph and other instruments. Prerequisites: LIN 3010, LIN 3013, or SPN 3733, or the equivalent, plus one additional course in phonetics or phonology. Co-requisite: One of the prerequisites may be counted as a co-requisite.

LIN 5601 Sociolinguistics (3). Principles and theories of linguistic variation with special attention to correspondences between social and linguistic variables. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5603 Language Planning: Linguistic Minority Issues (3). Introduction to the field of language planning. Minority linguistic issues in developing and developed nations: official languages, endangered languages, and language as problem and/or resource. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5604 Spanish in the United States (3). An examination of the sociolinguistic research into Spanish in the U.S.: varieties of Spanish, language attitudes, language contact and change, and aspects of language use. Prerequisites: LIN 3010, LIN 3013, or SPN 3733 or the equivalent.

LIN 5613 Dialectology (3). The geography of language variation: linguistic geography, atlases, national and regional studies. Dialectology within a modern sociolinguistic frame work; research approaches. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5625 Studies in Bilingualism (3). Readings and analysis of bilingual programs and binational goals. Prerequisites: LIN 3010, LIN 3013, LIN 5018 or the equivalent.

LIN 5689 Seminar in Lexicon Grammar (3). This course introduces students to research in Lexicon Grammar -- syntactic analyses based on a formal classification of large portions of the lexicon. Idioms and NLP applications are also discussed. Prerequisites: LIN 5018 and one structure course (e.g. LIN 5501, SPN 5705, or FRE 5855).

LIN 5720 Second Language Acquisition (3). Research, theories, and issues in second language acquisition. Topics include the Monitor Model, the role of the first language, motivation, age, individual differences, code-switching, and the environment; affective variables and attitudes.

LIN 5725 Seminar: Issues in Language Learning (3). Seminar in applied linguistics to serve as introduction to theory, research, and practice in language. Examines difficulties experienced in learning syntax, oral comprehension, usage, etc. Prerequisites: LIN 3010, LIN 3013, SPN 3733 or equivalent.

LIN 5760 Research Methods in Language Variation (3). Research in sociolinguistics, dialectology, bilingualism: problem definition, instrument design, data collection and analysis, including sampling techniques and statistical procedures. Prerequisites: LIN 5601, LIN 5625, LIN 5613 or other course in variation.

LIN 5825 Pragmatics (3). Study of the relationships between language form, meaning, and use. Special emphasis on speech act theory. Prerequisites: LIN 3010, LIN 3013, or SPN 3733 or the equivalent.

LIN 6571 Discourse Analysis (3). The study of the organization of language above the sentence level, such as conversational interactions and written texts. Prerequisites: LIN 3010, LIN 3013, or the equivalent.

LIN 6608 Seminar on Language, Race Identity, Nation and Power (3). Explores the historical and social use of language in the construction of race, nation, identity and power. Prerequisite: Graduate standing.

LIN 6934 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.) (See English listing for additional Linguistics courses.)

SPN 5060 Language for Reading Knowledge (3). Designed primarily for graduate students who wish to attain proficiency for M.A. or Ph.D. requirements. Open to any student who has no prior knowledge of the language.

SPN 5061 Language for Reading Knowledge (3). Emphasis on translation of materials from the student's field of specialization. Prerequisites: SPN 5060 or the equivalent.

SPN 5515 Cultural Representations of the Spanish Civil War (3). Representations for the Spanish Civil War in literature, film, and the other arts.

SPN 5525 Spanish American Culture (3). A graduate survey of the major artistic phenomena in Latin America. Art, music, film, and literature will be discussed in their cultural context. Prerequisites: Graduate standing and permission of the instructor.

SPN 5536 Afro-Cuban Culture (3). Explores the role played by blacks in Cuban culture. Issues studied include: Afro-Cuban religions, languages, and music, as well as the Afro-Cuban presence in literature and the arts.

SPN 5539 Special Topics in Afro-Hispanic Culture (3). Close examination of various topics related to the culture of African Diaspora groups in the Hispanic world.

SPN 5705 The Structure of Spanish (3). Diachronic and synchronic study of the structures of the Spanish language (phonetic, morphosyntactic, and lexical). Also considers pedagogical considerations for teaching structures. Prerequisites: LIN 3010, LIN 3013, SPN 3733 or equivalent.

SPN 5725 Syntactic Structures of Spanish and English (3). An in-depth study of syntactic structures in Spanish and English, with an emphasis on how linguistic theory can account for the similarities and differences between the two languages. Prerequisites: LIN 3010, LIN 3013, SPN 3733 or equivalent.

SPN 5736 Spanish as a Heritage Language: Acquisition and Development (3). Examines applied linguistics research and practice concerning acquisition, retention and literacy development of Spanish as a minority or heritage language in the United States. Prerequisites: LIN 3010, LIN 3013, SPN 3733 or equivalent or permission of instructor.

SPN 5805 Morphological Structures of Spanish and English (3). A survey of the morphologies of Spanish and English. Topics include the difference between isolating and synthetic languages, rich vs. impoverished agreement, and syntactic ramifications of morphology. Prerequisites: LIN 3010, LIN 3013, SPN 3733 or equivalent.

SPN 5807 Syntactic Structures of Spanish (3). The study of syntactic structures in Spanish, topics include different syntactic approaches to current issues in Spanish syntax. Prerequisites: LIN 3010, LIN 3013, SPN 3733 or equivalent.

SPN 5845 History of the Language (3). Historical development of the Spanish language, primarily from the point of view of internal linguistic change. Spanish as an example of general processes of language development. Prerequisites: LIN 3010, LIN 3013, SPN 3733 or equivalent.

SPN 5908 Independent Study (1-3). Project, field experience, readings, or research.

SPN 6395 Latin American Literature and Film in an Age of Globalization (3). Examines the latest trends in Latin American literature and film in light of the cultural dynamics of globalization.

SPN 6505 Spanish Culture (3). Selected development in language, literature, art, music, film, and the social institutions of Spain. Prerequisites: Graduate standing or permission of the instructor.

SPN 6535 Hispanic Culture in the U.S. (3). Readings in literature, culture, and language to illustrate the experience of the major Hispanic groups in the United States. Prerequisites: Graduate standing or permission of the instructor.

SPN 6795 Phonological Structure of Spanish (3). Approaches to current issues in Spanish phonology. Linguistic methodology for the analysis of phonological processes in Spanish. Prerequisite: Graduate standing.

SPN 6825 Hispanic Dialectology (3). A study of the principal varieties of the Spanish language in the Spanish-speaking world, with special emphasis on Latin American Spanish. Prerequisite: Graduate standing.

SPN 6930 Special Topics in Linguistics (3). Content to be determined by students and instructor. (Approval of the Department required.)

SPN 6970 Thesis Research (1-10). Research toward completion of Master's Thesis. Repeatable. Prerequisite: Permission of the Department.

SPN 7980 Ph.D. Dissertation (1-12). Research toward the completion of a doctoral dissertation. Repeatable. Prerequisite: Permission of the Major Professor and Doctoral Candidacy.

SPT 5118 Literature in Translation (3). Masterpieces of world literature. Open to students who are proficient in more than one language.

SPT 5715 Hispanic Women Writers in Translation (3). Readings and analysis of Spanish and Spanish American women writers in translation. Emphasis on cultural and linguistic considerations involved in the translation of literary texts. Prerequisites: Graduate standing or permission of the instructor.

SPW 5135 Spanish American Literature for Teachers (3). Overview of major trends in Spanish American literature. Especially designed for school teachers and majors in modern language education. Not for M.A. or Ph.D. Spanish majors. Prerequisite: Permission of the instructor.

SPW 5155 Comparative Studies (3). Cross-over and distinctiveness in a multi language problem, period, or aesthetic.

SPW 5225 Textual Reading and Analysis (3). Studies how texts are constructed, the role played by Poetics and Rhetoric in their formulation, and the context in which they were produced. Prerequisite: Graduate standing.

SPW 5237 The Traditional Spanish American Novel (3). Study and analysis of the traditional Spanish novel as a form of art, from 19th century Lizardi's "El periquillo sarniento", to 1950. The novels and authors studied are representative of 'costumbrismo', 'romanticismo', 'naturalismo', 'modernismo', and 'criollismo'.

SPW 5277 Twentieth Century Spanish Narrative (3). Analysis of the Spanish novel from Ferlosio's "El Jarama" to the present. The perspective will be focused within historical, social, and artistic context. Representative authors such as Cela, Martin Santos, Umbral, Delibes, Benet, Goytisolo, and others will be included.

SPW 5286 Contemporary Spanish American Novel (3). A study of the Spanish American Novel from 1950. The course will intensively and extensively focus on the novelists who are best known for their innovations, defining and analyzing the qualities which give originality and newness both in themes and language.

SPW 5348 Avant-Garde Spanish Poetry: From Creacionismo to Lorca (3). Analysis of the significance of the avant-garde as well as vanguard poetry during Spain's Silver Age. Contrast Spanish avant-garde poetry with modernism. Discuss F.G. Lorca and the Generation of 1927. Prerequisites: Graduate status. Advanced knowledge of Spanish language. At least one course in Spanish literature (level 4 or higher).

SPW 5349 Modern Spanish Poetry: The 19TH and 20TH Centuries (3). A complete examination of the 19th-

and 20th century Spanish peninsular poetry and related critical studies. Prerequisite: Graduate students status.

SPW 5358 Graduate Seminar: Prose and Poetry of Jorge Luis Borges (3). Close readings of short stories and poetry. Emphasis on Borge's linguistic and cultural pluralism and the interplay of philosophy with fabulation.

SPW 5388 Travel Writing and Cultures in Spanish Literatures (3). Studies Spanish and Spanish American travel literature and representation of otherness through different literary critical approaches.

SPW 5396 History of Cuban Cinema (3). Overview of Cuban Cinema, from its origins to the present.

SPW 5398 Africanism in Spanish Literature and Film (3). Studies the literary and artistic production generated by Spanish relationship with African cultures, as well as Afro-Spanish literature.

SPW 5405 Medieval Spanish Literature (3). Readings in Medieval literature of Spain including the epic, the learned poetry of the XIIIth and XIVth Centuries, and the literature of Juan II's court. Prerequisites: Graduate standing or permission of the instructor.

SPW 5407 The Renaissance in Spain (3). Readings in the literature and cultural expressions of the Spanish Renaissance. Prerequisites: Graduate standing or permission of the instructor.

SPW 5428 Theatre in Calderon and Lope (3). The creation of verbal theatrical technique in the Baroque masters Calderon de la Barca and Lope de Vega.

SPW 5436 Poetry Writing in Spanish (3). Readings from Spanish and Latin American texts; description and recreation of traditional and experimental metrics. Students will exchange critiques of original poems. Prerequisites: sample of unpublished poems; word-processing literacy; permission of the instructor.

SPW 5475 19th Century Latin American Literature (3). A study of the main literary works of Spanish speaking 19th Century Latin America: Romanticism, Realism, Naturalism and Modernism. Prerequisites: Upper level and graduate standing.

SPW 5486 Modern Spanish Women Writers (3). Analysis of narrative works by Spain's most representative women writers from the 19th century to the present. Emphasis on the novel. Includes works by Pardo Bazan, Matute, Laforet, Martin Gaite. Prerequisites: Graduate standing or permission of the instructor.

SPW 5515 Advanced Studies in Hispanic Folklore (3). Studies the oral literary and linguistic tradition of the Hispanic world. Prerequisites: Graduate standing or permission of the instructor.

SPW 5535 Hispanic Romanticism (3). A transatlantic approach to literary production of Hispanic Romanticism. Prerequisite: Graduate standing.

SPW 5546 Hispanic Neoclassicism (3). Study of major Spanish and Spanish-American Neoclassic writers: Cadalso, Moratin, Jovellanos, Carrio de la Vandera, Mier and Lizardi. Prerequisite: Graduate Standing.

SPW 5556 Spanish Realism and Naturalism (3). Readings in Spanish XIXth Century Novel of Realism and Naturalism including Alarcon, Perez Galdos, Pardo Bazan, Clarin and Blasco Ibanez. Prerequisites: Graduate standing or permission of the instructor.

SPW 5575 Spanish American Modernism (3). An in-depth study of prose and poetry of one of the most important periods of Spanish American literature, focusing on Marti, Dario, Najera, Casals, Silva, Valencia, Lugones, and Herrera y Reissig.

SPW 5585 Learning Technology in Spanish Pedagogy and Research (3). Exploration of the role of technology in today's language and literature learning environment. Overview of the WWW, Network-based communication, and electronic databases related to Hispanic language and literature. Prerequisites: Graduate standing or advanced undergraduate with permission of the instructor.

SPW 5595 Magical Realism and Typologies of Non-Realist Fiction (3). Theories of magical realism, fantastic and non-realist fiction, focusing on narrative technique. Authors may include Onetti, Borges, Cortázar, Asturias, Carpentier, Rulfo, Márquez, Allende or others. Prerequisites: Graduate standing or permission of the instructor.

SPW 5606 Cervantes (3). A comprehensive introduction to the master-pieces of Cervantes as the creator of the modern novel, and to critical theories about his art.

SPW 5727 Hispanic Noventaiochism (3). Studies in narrative tendencies at turn of the century in Spanish and Spanish American literary production.

SPW 5729 Major Writers of the Generation of '98 (3). Study of the social and political circumstances of Spain at the turn of the XIX Century, and analysis of the work of Ganivet, Azorin, Baroja. Machado, Maeztu, Unamuno and Valle-Inclan. Prerequisites: Graduate standing or permission of the instructor.

SPW 5735 Hispanic Literature of the United States (3). Readings in the literature of Hispanics in the United States. Prerequisites: Graduate standing or permission of the instructor.

SPW 5776 Black Literature in Latin America (3). An examination of the different genres in Latin American literature focusing on the life of Afro-Hispanics, from the beginning of this literary tradition to the present time. Prerequisite: Graduate standing.

SPW 5781 The Representation of Women in Spanish Literature and Film (3). Study of cinematographic adaptations of Spanish novels, plays and short stories. Analyzes the representation of the female subject in both literary and film works. Prerequisites: Graduate standing or permission of the instructor.

SPW 5786 Spanish American Women Writers (3). Through a selection of poems, plays and novels, this course studies Spanish American women production from Independence to the present times. Prerequisite: Graduate students only.

SPW 5806 Methods of Literary Research (3). Introduction to bibliography, methods of research, the composition of essays, rhetoric, and the presentation of documentation. Theory of literary criticism, and its practical application to texts in Spanish.

SPW 5934 Special Topics in Language/Literature (3). Content and objectives to be determined by student and instructor.

SPW 6238 Spanish American Historical Novel (3). The evolution of the historical novel in Spanish America from the Romantic period to the present. Stylistic, literary, and theoretical analysis of selected traditional and recent historical novels. Prerequisite: Graduate standing.

SPW 6216 Golden Age Prose (3). Analysis of representative prose works from 16th and 17th century Spain. Emphasis will be on the picaresque novel, the pastoral novel, autobiography, and the short story. Prerequisite: Graduate standing.

SPW 6335 Golden Age Poetry (3). An examination of major poetics (1450-1650); emphasis on historical/cultural contexts. Prerequisite: Graduate standing.

SPW 6345 Twentieth Century Spanish Poetry (3). Close reading of two of the greatest poets of the 20th century (Jorge Guillen; F. Garcia Lorca) and of major voices from the Generation of 1927 and from post-Franco Spain. Emphasis on cultural contexts. Prerequisite: Graduate standing.

SPW 6366 Studies in the Spanish American Essay (3). Stylistics of the essay, neoclassic to postmodern, as reflecting the intellectual spirit of the times. Analysis of arguments and methods of cultural epistemology in Bolivar, Marti, Paz and others. Prerequisite: Graduate standing.

SPW 6367 Prose and Poetry of Jose Marti (3). Study of Jose Marti's prose and poetry within the aesthetic and ideological contexts which characterize the discourse of Spanish American Modernism. Prerequisite: Graduate standing.

SPW 6368 19th Century Spanish-Caribbean Narrative (3). Studies the most popular literary trends of 19th century literature through the works of various Spanish-Caribbean writers. Prerequisite: Graduate standing.

SPW 6389 Cuban Novel and Short Story (3). Critical reading of representative texts of the Cuban novel and short story from XIX century to contemporary narrative expressions, within historical, social and artistic context. Prerequisite: Graduate standing.

SPW 6395 Genre Studies (3). Examination of a single literary form (e.g. short story, poetry,) or the study of interaction between literary types (e.g. novel and drama).

SPW 6495 The Latin American Experience Literature and Film (3). Literary and cinematic representations of significant periods in the formation of Latin American politics, culture, and identity. Prerequisite: Graduate standing.

SPW 6716 Seminar in Galdós (3). An in-depth study of the novels by Benito Pérez Galdós. Stylistic and theoretical analysis of a selection of Galdós' works, especially his novelas españolas contemporáneas (contemporary Spanish novels). Prerequisite: Graduate standing.

SPW 6775 Literature of the Spanish Caribbean (3). Close readings of representative texts of the literature of the Dominican Republic, Cuba and Puerto Rico. Emphasis on the characteristics of the literary discourse within the context of a regional literature. Prerequisite: Graduate standing.

SPW 6825 Literary Theory and Criticism (3). Study of the theoretical foundation of literature and contemporary systems of critical approach to literary discourse. Prerequisite: Graduate standing.

SPW 6826 The Historiography of Literature (3). Methodology and theory in the writing of literary history: periodization, continuity and change, literature in intellectual history. Prerequisite: Graduate standing.

SPW 6936 Graduate Seminar (3). Topic and approach to be determined by students and instructor. Prerequisite: Approval of the Department.

SPW 7910 Pre-Dissertation Research (1-9). Enables students to concentrate on completion of their dissertation prospectus during the term in which they take Ph.D. comprehensive exams. Prerequisite: Completion of all other Ph.D. coursework.

TSL 6348 Task-Based Language Teaching (3). Introduction to task-based approaches to language teaching and learning. Prerequisite: Graduate Standing.

Politics and International Relations

Barry Levitt, *Associate Professor and Chairperson*
Iqbal S. Akhtar, *Associate Professor*
Astrid Arrarás, *Teaching Professor*
Nima Baghdadi, *Visiting Assistant Teaching Professor*
Alexander Barder, *Associate Professor and Graduate Program Director, International Relations*
Thomas A. Breslin, *Professor*
John F. Clark, *Professor*
Ronald Cox, *Professor*
Kathryn DePalo-Gould, *Teaching Professor*
Shlomi Dinar, *Professor and Associate Dean, Steven J. Green School of International and Public Affairs*
Kevin Evans, *Associate Professor*
Clement Fatovic, *Professor*
Sara Furnal, *Visiting Assistant Teaching Professor*
Eduardo Gamarra, *Professor*
Amaryllis Garcia-Perez, *Assistant Teaching Professor, Director of Pre-Law Advising and Training Office (PLATO)*
Harry D. Gould, *Associate Professor*
Tatiana Kostadinova, *Professor*
Eric Lob, *Associate Professor and Graduate Program Director, Political Science*
Todd Makse, *Associate Professor and Undergraduate Program Director*
Félix Martín, *Associate Professor*
Kyle Mattes, *Associate Professor and Associate Chairperson*
Mohiaddin Mesbahi, *Associate Professor and Director of the Mohsin and Fauzia Jaffer Center for Muslim World Studies*
Anjana Mishra, *Visiting Assistant Teaching Professor*
Sara Moats, *Associate Teaching Professor and Director of Online Learning*
Francisco O. Mora, *Professor*
Dario Moreno, *Associate Professor*
John Oates, *Associate Professor*
Marzia Oceno, *Assistant Professor*
Richard S. Olson, *Professor and Director of the Extreme Events Institute*
Joaquin A. Pedroso, *Associate Teaching Professor*
Mark Rosenberg, *Professor*
Naisy Sarduy, *Associate Teaching Professor*
Matthew Shafer, *Visiting Assistant Teaching Professor*
John F. Stack, Jr., *Professor and Founding Dean, Steven J. Green School of International and Public Affairs*
Alicia Steinmetz, *Assistant Professor*
Markus Thiel, *Professor and Director of the EU-Jean Monnet Center of Excellence*
Chantalle F. Verna, *Associate Professor*
Marcie Washington, *Associate Teaching Professor and Associate Undergraduate Program Director*
Jin Zeng, *Associate Professor*
Susanne Zwingel, *Associate Professor*

Faculty Emeriti

Kenneth I. Boodhoo, *Professor Emeritus*
Charles MacDonald, *Professor Emeritus*
Brian Nelson, *Associate Professor Emeritus*
Nicholas Onuf, *Professor Emeritus*
Judith H. Stiehm, *Professor Emerita*

The Department of Politics and International Relations offers four advanced degrees: a Master of Arts in International Studies, a Master of Arts in Political Science, a Doctor of Philosophy in International Relations, and a Doctor of Philosophy in Political Science.

The Department emphasizes a multi-disciplinary approach to graduate education. This emphasis reflects the many disciplines and perspectives represented in the Department, and it results in a vital and challenging exchange of ideas among students and faculty members. Together they investigate a stimulating range of topics, from the traditional concerns of foreign policy and national security to contemporary global issues such as democratization, the environment, human rights, globalization, and social movements. These scholarly inquiries are generally informed by an engagement with social and political theory, to which students are exposed through a closely coordinated set of graduate seminars. Many members of the Department have longstanding regional interests, as do many other members of the University faculty. The program boasts of strengths in Africa, Central Asia, East Asia, Latin America and the Caribbean, the Middle East, and Europe.

The Department of Politics and International Relations is an affiliate member of the Association of Professional Schools of International Affairs.

Master of Arts in International Studies

The M.A. program is designed to prepare students for careers in government, the private sector, or international agencies, or for professional and doctoral studies.

The Steven J. Green School of International and Public Affairs offers certificate programs in African and African Diaspora Studies, Asian Studies, Latin American and Caribbean Studies, and Transnational and Regional Studies, among others. The graduate program encourages its M.A. students to pursue regional certification in conjunction with their work in the M.A. program.

Admission Requirements

To be considered for admission to the M.A. program, applicants must have a GPA of 3.0 in upper-level work, or its equivalent, from a recognized institution of higher education, and acceptable Graduate Record Examination (GRE) scores. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A minimum score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required. Admissions requirements are minimums and even if the minimums are met, admission is not assured. The application deadline is March 15 for Fall semester admission and September 1 for Spring semester admission.

Degree Requirements

The M.A. program requires a minimum of 36 semester hours of credit at the graduate level. Undergraduate courses taken to satisfy prerequisites for graduate courses will not count toward the 36 hour minimum requirement. The Graduate Advisory Committee may approve the

transfer of a maximum of six graduate credits earned at another recognized institution of higher education.

Core Sequence: (12 credits)

All MA students must complete a core sequence of four courses (12 credits), each of which reflects a distinctive disciplinary point of view. These courses are:

INR 6706	Political Economy of International Relations
INR 5609	Contemporary Dynamics of International Relations
INR 5615	Research Design in International Relations
INR 5017	Approaches to Area Studies

Major Field: (12 credits)

M.A. students also must select a major field of study in either (1) Global Institutions and Issues, or (2) International Relations and Foreign Policy, by taking four courses (12 credits) from an extensive list of approved courses in the social sciences. Students must take at least two courses offered by the Department of Politics and International Relations to satisfy the field requirement.

Electives: (6 credits)

To satisfy the program's elective requirement, students may take two additional courses (6 credits) from the field lists. Students wishing to elect other graduate-level courses offered by the University may do so with permission of the Graduate Program Director.

Thesis and Alternatives (6 credits)

To complete degree requirements, M.A. students have the option of (a) writing a thesis or (b) taking a comprehensive examination. Before electing either of these options, students must demonstrate competence in the use of a foreign language other than English.

Any student electing (a) to write a thesis will normally take 6 credit hours of thesis supervision and prepare a thesis proposal subject to the approval of three members of the University graduate faculty. A graduate faculty member of the Department of Politics and International Relations must chair any thesis committee thus constituted. No thesis may be approved until the student has defended it in a public examination. Any student electing (b) to take a comprehensive examination must have 6 semester hours of course work in preparation for the exam. One half of the comprehensive examination will cover the core sequence of courses, and the other half will cover the student's major field.

Combined B.A. in International Relations/M.A. in International Studies Degree Pathway

The combined B.A./M.A. degree pathway allows highly qualified undergraduate students to pursue an accelerated M.A. degree in International Studies. Students accepted into this pathway will be able to complete the M.A. degree as much as one year sooner that would otherwise be possible. Students accepted into the International Relations Honors Track are particularly encouraged to apply for this program.

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway, the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

To be accepted into the combined B.A./M.A. degree pathway, students must submit an M.A. program application by March 15 in their junior year (to apply, students must already have completed 75 credits in their undergraduate degree program). A complete application requires:

1. Current enrollment in the B.A. program in International Relations at FIU
2. GRE scores
3. Minimum GPA of 3.5
4. Two letters of recommendation
5. Statement of purpose discussing research interests

All components of the application must be complete by the March 15 application date. Students should consult the graduate catalog and the International Relations Program website for a more comprehensive discussion of admission requirements. Students in the combined B.A./M.A. degree pathway must apply for their undergraduate degree as soon as possible after having satisfied the degree requirements.

The program gives students the opportunity to take up to 9 credits of graduate coursework in their senior year that will be shared with the B.A. and the M.A. Successful completion of the B.A./M.A. pathway will therefore require a total of 147 unduplicated credit hours. Students will take three 5000-level graduate courses in their senior year and follow the regular M.A. curriculum after they earn their B.A. degree. A typical course of study is as follows:

Undergraduate Junior Year: apply to the program (March 15 deadline)

Undergraduate Senior Year

Fall Semester – take 12 credits, including one 5000-level course

Spring Semester – take 12 credits, including two 5000-level courses

Graduate Program

Summer – take 3 graduate credits (5000-level or higher)
Fall – take 9 graduate credits (5000-level or higher)
Spring – take 9 graduate credits (5000-level or higher)
Summer – take 6 graduate credits (thesis or comps preparation)

Students in the combined B.A./M.A. pathway in International Studies must complete all other requirements for the M.A. degree in International Studies (please consult the graduate catalog and the Department's online graduate handbook).

Master of International Business/Master of Arts in International Studies Joint Degree Pathway

The Department of Politics and International Relations and The Alvah H. Chapman Jr. Graduate School of Business at Florida International University offer a joint degree pathway culminating in both a Master in International Business (MIB), and a Master of Arts in International Studies (MAIS). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

1. Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option. Students deciding to pursue the joint degree option after having been admitted to one program will indicate this intention only on their second application.
2. Applications for the joint degree pathway will not be accepted from candidates who have already graduated with either degree. MIB or MAIS students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements, including the comprehensive examination for the MAIS degree.
3. Candidates must satisfy all requirements for each degree. The two degrees will have four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. Courses transferred to meet elective credits must be 5000 or 6000 level courses. Directors of the MAIS and MIB degree programs may adjust these exact course requirements as a result of future changes to the MAIS or MIB curriculums.

   3.1. **To obtain the MIB degree,** MAIS students who have successfully completed the required 36 credits must, additionally, complete 24 credit hours in the MIB program as follows:

MAR 6158	International Marketing	3
MAN 6635	Global Strategy and Business Models	3
MAN 6679	Master's Project in International Business	3
MAN 6601	Global Management Skills	3
FIN 6644	Global Financial Strategy	3
ACG 6255	International Accounting	3
MAN 6930A	Master's Seminar in Management 1	1
MAN 6930B	Master's Seminar in Management 2	1
MAN 6930C	Master's Seminar in Management 3	1

   In order to satisfy the 36 credits hours required by the MIB program, 12 credit hours will be transferred from the MAIS program as follows:

INR 5017	Approaches to Area Studies	3
INR 5409	International Law	3
Elective 1		3
Elective 2		3

   3.2. **To obtain the MAIS degree,** MIB students who have successfully completed the required 36 credits must, additionally, complete 24 credit hours in the MAIS program as follows:

INR 6706	Political Economy of International Relations	3
INR 5615	Research Design and International Relations	3
GEO 6473	Space, Place and Identity	3
INR 5609	Contemporary Dynamics of International Relations	3
INR 5017	Approaches to Area Studies	3
Field course 1		3
Field course 2		3
Field course 3		3

   In order to satisfy the 36 credits hours required by the MAIS program, 12 credit hours will be transferred from the MIB program as follows:

MAN 6606	Fundamentals of International Business	3
BUL 6850	International Business Law	3
Elective 1		3
Elective 2		3

   All MAIS students coming into the MIB program will be required, during the first month of classes, to take a 16-hour workshop in Accounting and a 16-hour workshop in Quantitative Methods. The purpose of these workshops is to ascertain whether that students have the necessary background in both of these fields. Students must pass each workshop with at least a B grade (there is no charge for this workshop). Otherwise, they must register, and pay the corresponding tuition for the Accounting class (ACC 6026) and/or the Quantitative Methods class (QMB 6357) in the Evening MBA program, and earn a grade of B or higher.

Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all of the program requirements for the first degree program as if they had never been a joint degree pathway candidate.

Doctor of Philosophy in International Relations

The Ph.D. program is designed to prepare students for careers as scholars and teachers. It provides students with a solid theoretical foundation while allowing individual latitude for rigorous research on a wide range of subjects. Students work closely with dedicated, internationally recognized scholars.

Admission Requirements

To be considered for admission to the Ph.D. program, all applicants must have a bachelor's degree, or its equivalent, from a recognized institution of higher education, or have received a bachelor's degree before they matriculate in the program.

Applicants should have a minimum undergraduate grade point average of 3.2, or its equivalent, a minimum grade point average of 3.5 for all combined graduate work, and acceptable Graduate Record Examination (GRE) scores. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the iBT TOEFL (equivalent to 575 on the paper-based version of the Test

of English as a Foreign Language) or 6.5 overall on the IELTS is required.

Applications will be reviewed only in the spring term for fall admission. Students who wish to be considered for graduate assistantships must submit an application by January 15 for admission in the following Fall semester.

Degree Requirements

The Ph.D. requires a minimum of 75 semester hours of credit at the graduate level.

Undergraduate courses taken to satisfy prerequisites for graduate courses will not count toward the 75 hour minimum requirement. Students earning a M.A. degree may transfer up to a maximum of 36 credits toward the 75 hour minimum requirement. The Graduate Advisory committee may approve the transfer of a maximum of 12 graduate credits earned in a non-degree seeking status at FIU.

Ph.D. students who have satisfied all other requirements for the M.A. apart from the exit requirement (i.e. all coursework and the foreign language competency) are eligible to receive an M.A. degree en route. Passing the doctoral comprehensive examinations serves as equivalent to the M.A. comprehensive examination. Ph.D. students who have satisfied their requirements should consult with the Graduate Program Director about the necessary paperwork and procedures to receive the M.A. degree in the course of their Ph.D. studies.

Core Sequence (15 credits)

All Ph.D. students must complete a core sequence of five courses (15 credits). These courses are:

INR 5609	Contemporary Dynamics of International Relations
INR 5615	Research Design in International Relations
INR 6604	International Relations Theory I
INR 6608	Contemporary International Relations Theory

Second methods course from the following list (or another methods course approved by the Graduate Program Director):

INR 5616	Qualitative and Interpretive Methods in International Relations
POS 5706	Graduate Seminar in Political Science Research Methods
ECO 7424	Econometric Methods 1
ANG 6480	Ethnohistorical Research Methods
ANG 6497	Qualitative Research Methods
GIS 5935	Topics in GIS
PAD 7705	Applied Quantitative Analysis I
PAD 7707	Applied Quantitative Analysis II
PAD 7703C	Empirical Methods in Public Administration

Fields selection:

a. Global Political Economy and Development
b. Comparative Area Studies
c. Foreign Policy and Security Studies
d. Global Governance, International Law and International Ethics

Gateway courses (9 credits)

Each field has one or two gateway courses. Students take three gateway courses out of four fields.

- Global Political Economy and Development:
  INR 6706 Political Economy of IR
- Comparative Area Studies:
  INR 5017 Approaches to Area Studies
- Foreign Policy and Security Studies:
  INR 6338 Strategic Studies
- Global Governance, International Law and International Ethics
  INR 5409 Int'l Law I
  OR
  INR 5507 Int'l Organizations

Major and Minor Fields: (15 credits)

Students must select a major field of study in (1) Global Political Economy and Development (2) Comparative Area Studies (3) Foreign Policy and Security Studies, or (4) International Law by taking three courses (9 credits) from a list of approved courses. Students must also select a minor field of study consisting of at least two courses (6 credits), (a) by choosing a second field from the above list, (b) by taking a Ph.D. field in some other teaching unit of the University, or (c) by creating a field in consultation with the Graduate Program Director and three members of the University faculty.

Electives: (15 credits)

To satisfy the Ph.D. program's elective requirement, students must take 15 credits of additional course work, including independent study courses. Students wishing to elect a course or courses offered elsewhere in the University may do so with permission of the Graduate Program Director. Students must demonstrate the ability to use a foreign language other than English for scholarly purposes.

Comprehensive Exams (6 credits)

Within 6 months of completing the foreign language requirement and 60 hours of course work, students must sit for written comprehensive examinations on the core sequence and in both of their fields. Students may sit for their comprehensive examination during the term in which they complete these requirements.

Dissertation (15 credits)

Within 3 months of passing the comprehensive examinations, students should publicly present a dissertation proposal that is acceptable to a committee of at least four qualified scholars. Three members of the committee, including the dissertation supervisor, must be graduate faculty members of the Department of Politics and International Relations. One must be from outside the department, but inside FIU. Other members must be approved by the Graduate Program Director.

To complete program requirements, Ph.D. degree candidates must enroll for a minimum of 15 dissertation credits and maintain matriculation until the degree is awarded.

Combined Master of Arts in Asian Studies/Doctor of Philosophy in International Relations Degree Pathway

The combined M.A. in Asian Studies/Ph.D. in International Relations pathway allows qualified graduate students to

pursue both degrees simultaneously. To be accepted into this pathway, students must submit an application for the M.A. in Asian Studies/Ph.D. in International Relations by January 15 in the year in which they wish to begin their studies. Applicants must meet the admission eligibility requirements and follow the admission procedures for both programs.

Students must fulfill the requirements for both programs, and up to 33 credits may count for both degrees. To graduate, students must complete the requirements of the International Relations doctoral program, including the required 75 hours.

In addition to the requirements for the two degrees, during their first two years of enrollment in this combined degree pathway, students will enroll in the following course which fulfills the M.A. in Asian Studies methods requirement:

INR 5615	Research Design in International Relations

The following International Relations courses will also be taken by M.A. in Asian Studies students during the first two years of the program and will count toward the M.A.:

INR 5609	Contemporary Dynamics of International Relations
INR 6706	Political Economy of International Relations

Master of Arts in Asian Studies Requirements

(30 credits Thesis Option/30 credits Non-Thesis Option)

Core Courses: (24 credits)

- 9 credits of ASN 5000 or 6000 courses approved by the Director
- 9 credits pertaining to world affairs
- 6 credits in Asian area studies

MAAS offers two exit options, Thesis or Non-Thesis

Thesis Exit Option (6 credits):

ASN 6972	Master's Thesis

Non-Thesis Exit Option: (6 credits)

ASN 6912	Master's Essay (3 credits and one additional course (3 credits)

Master's Essay can be taken multiple times. Some students may be encouraged to develop their research projects by taking this course

Doctor of Philosophy in International Relations (75 credits)

Core Courses: (15 credits)

INR 5609	Contemporary Dynamics of International Relations	3
INR 5615	Research Design in International Relations	3
INR 6604	International Relations Theory I	3
INR 6608	Contemporary International Relations Theory	3

Second methods course from the following list (or another methods course approved by the Graduate Program Director):

INR 5616	Qualitative and Interpretive Methods in International Relations
POS 5706	Graduate Seminar in Political Science Research Methods
ECO 7424	Econometric Methods I
ANG 6480	Ethnohistorical Research Methods
ANG 6497	Qualitative Research Methods
GIS 5935	Topics in GIS
PAD 7705	Applied Quantitative Analysis I
PAD 7707	Applied Quantitative Analysis II
PAD 7703C	Empirical Methods in Public Administration

Gateway courses (9 credits)

There are four major field of study: (1) Global Political Economy and Development (2) Comparative Area Studies (3) Foreign Policy and Security Studies, and (4) Global Governance, International Law and International Ethics. Student must take one gateway course for three of these fields. Gateway courses for each field are:

(1) INR 6706	Political Economy of International Relations
(2) INR 5017	Approaches to Area Studies
(3) INR 6338	Strategic Studies
(4) INR 5409	International Law I
	or
INR 5507	International Organizations

Major and Minor Fields: (15 credits)

9 credits in major field of study
6 credits in minor field of study

Electives: (15 credits)

Additional elective coursework

Comprehensive Exams (6 credits)

Once students have achieved 60 credits, they must sit for written examination on the core sequences and both of their fields

Dissertation: (15 credits)

INR 7980	Ph.D. Dissertation

M.A. in African and African Diaspora Studies/Ph.D. in International Relations Combined Degree Pathway

The dual African and African Diaspora Studies M.A./International Relations Ph.D. pathway allows qualified graduate students to pursue both degrees at the same time.

Admission Requirements

To be accepted into this pathway, students must submit an application for the M.A. in African and African Diaspora Studies/Ph.D. in International Relations by January 15 in the year in which they wish to begin their studies.

To be considered for admission, students must meet the following requirements:

1. Minimum cumulative grade point average of 3.2 in undergraduate work.
2. Minimum cumulative grade point average of 3.5 in any prior graduate work.
3. Official Graduate Record Exam (GRE) scores.
4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the IBT TOEFL (equivalent to 575 on the paper-based

version of the Test of English as a Foreign Language) is required.

Applicants must follow the admission procedures for both programs (see the appropriate sections in this graduate catalog). Only applications to begin studies in the fall semester will be considered. This designation will appear in the menu of programs in the graduate application, and students must indicate their intention to apply for this combined degree pathway.

Each applicant must complete an online graduate application form and arrange to send transcripts of all prior college (undergraduate and graduate) work and official reports of the Graduate Records Exam (GRE) and TOEFL (if applicable) to FIU's Office of Graduate Admissions.

Each applicant should also submit a separate statement of purpose, along with copies of the above material. The letter of application should include a statement expressing the applicant's academic and professional objectives. Applicants must include writing samples and other relevant professional work that may support their applications. Applicants must request three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability. The letters of recommendation should be sent directly to the Director of the African and African Diaspora Studies Graduate Program. AADS will photocopy the recommendation letters once they are all in and send them to the International Relations Graduate Program Director.

The application file must be complete before the African and African Diaspora Studies/International Relations Graduate Program Committees will consider the applicant for admission. We encourage applicants to send their application material sooner.

Required Credits

Students must fulfill the requirements for both programs. The 30 credits for the M.A. in AADS earned by students will count toward the 75 credits required for the Ph.D. in INR.

Language Requirement

Students must demonstrate proficiency in a language other than English according to the nature of their thesis or research paper/proposal and professional interests. The AADS Graduate Program Director will ask a university faculty member fluent in the language of interest to the student, to evaluate the student's fluency by asking her/him to summarize or synthesize the content of a text of between 10 to 20 pages, published in that language, in no more than one page. That exercise will have to take place at the university during a limited period of time. The text will be given to the student at the beginning of the exercise. The chosen text will have some connection to the student's research interest. Once a student has demonstrated proficiency for the M.A. in African and African Diaspora Studies, that proficiency will be recognized by the International Relations Ph.D. program. Therefore, proficiency in a foreign language will not be part of the candidacy exam. Credit hours earned in meeting the language requirement will not count towards the 30 credit hours required for the M.A. degree.

Students should apply for graduation with the M.A. in African and African Diaspora Studies as soon as they have completed all requirements for the degree – including the exit requirements, as specified for the M.A. in African and African Diaspora Studies. Ordinarily, students will complete these requirements and earn their M.A. before advancing to candidacy for the Ph.D. in International Relations. The research paper/proposal option is the only option available for students enrolled in this dual M.A./Ph.D. pathway.

Masters of Arts in African and African Diaspora Studies Requirements

This 30-credit, one year, three-semester program occurring over the Fall, Spring and Summer includes 9 credits of core AADS courses, which includes 3 credits for the directed research paper exit option, 6 credits of core International Relations courses, and 15 credits of electives. There is also a Foreign Language Requirement.

M.A. in AADS Core Courses: (9 credits)

AFA 5005	African and African Diaspora Studies Theory *(3 credits)*
AFA 5855	Research Methods in African and African Diaspora Studies *(3 credits)*
AFA 6920	African and African Diaspora Studies Graduate Colloquium *(3 credits —1 credit over three semesters)*

Combined M.A. in AADS/PhD in International Relations Core Courses: (6 credits)

INR 5609	Contemporary Dynamics of International Relations *(3 credits)*
INR 6706	Political Economy of International Relations *(3 credits)*

M.A in AADS Elective (15 credits)

15 credits of elective courses with an AADS focus may be from outside the International Relations Department and within the Green School and/or the College of Arts & Sciences. Students wishing to take courses outside of the Green School and the college of Arts & Sciences must seek prior approval.

M.A. in AADS Research Proposal or Paper Option

To graduate from the M.A. in AADS, students enrolled in this combined M.A./PhD pathway must elect to complete either a research proposal or research paper for their exit option. Those who elect to write a research proposal must take AFA 6911 Research Paper/Proposal Writing in African and African Diaspora Studies.

Doctor of Philosophy in International Relations (75 credits)

The following courses in addition to all 30 M.A. credits:

INR 5615	Research Design in International Relations	3
INR 6604	International Relations Theory I	3
INR 6608	Contemporary International Relations Theory	3

Second methods course from the following list (or another methods course approved by the Graduate Program Director):

INR 5616	Qualitative and Interpretive Methods in International Relations
POS 5706	Graduate Seminar in Political Science Research Methods
ECO 7424	Econometric Methods I
ANG 6480	Ethnohistorical Research Methods

ANG 6497	Qualitative Research Methods
GIS 5935	Topics in GIS
PAD 7705	Applied Quantitative Analysis I
PAD 7707	Applied Quantitative Analysis II
PAD 7703C	Empirical Methods in Public Administration

Gateway courses (6 credits)
Two out of INR 5017 Approaches to Area Studies, INR 6338 Strategic Studies, and either INR 5409 International Law I or INR 5507 International Organizations.

Major and Minor Fields: (9 credits)

Major field of study	6
Minor field of study	3

Comprehensive Examinations (6 credits)
Once students have achieved 60 credits of course work, they must sit for written examinations on the core sequence of their fields as per the Ph.D. in INR section of the catalog.

Dissertation: (15 credits)
See the university catalog for relevant sections of the Ph.D. Program in International Relations for details.

Combined M.A. in Latin American and Caribbean Studies (MALACS)/Ph.D. in International Relations Degree Pathway

The Combined Latin American and Caribbean Studies M.A./International Relations Ph.D. pathway allows qualified graduate students to pursue graduate degrees in both areas simultaneously rather than sequentially. Students must fulfill the requirements for both programs, and up to 36 credits completed as part of the M.A. in MALACS will be counted toward the 75 credit Ph.D. in International Relations.

To be considered for admission, students must meet the following requirements:

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Verbal and Quantitative portions of the Graduate Record Exam (GRE) scores;
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the internet-based TOEFL (equivalent to 575 on the paper-based version) or 6.5 overall on the IELTS is required.

Although admissions decisions typically are made in the spring, decisions for students who have not yet received their bachelor's degree will be conditional, pending confirmation of the B.A. Meeting the minimum requirements does not guarantee admission into the program. All applications are subject to review by the members of the Department of Politics and International Relations and the MALACS admissions committee.

Admission Procedures

To be accepted into this pathway, students must submit an application to the Ph.D. in International Relations with a sub-plan for a M.A. in LACS. This designation will appear in the menu of programs in the graduate application. The application must be submitted by January 15 in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the on-line application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable.
5. A statement of research interests, including reasons for seeking the M.A./Ph.D., future career goals, and a summary of scholarly preparation for this pathway;
6. Three letters of reference from academic sources or others able to judge academic abilities and potential; and
7. A curriculum vitae.

Masters of Arts in Latin America and Caribbean Studies Degree Requirements (36 credits)

During their first two years of enrollment in the Combined Degree Pathway, students must complete 36 credits for an MA in Latin America and Caribbean Studies with depth or focus courses in International Relations.

MALACS Core Courses (9 credits)
During their first two years of enrollment in this combined degree pathway, students take three core courses as follows:

LAS 6003	Survey of Latin America and the Caribbean (first year, fall semester)	3
LAS 6934	Research Seminar (first year, spring semester)	3
INR 5615	Research Design in International Relations	3

MALACS Focus Courses (12 -15 credits)
Students will take a minimum of 12-15 credits within the Department of Politics and International Relations with a Latin American and/or Caribbean focus.

MALACS Elective Courses (6-9 credits)
Student may take courses from other areas.

MALACS Exit Options for Combined Degree Pathway (6 credits)
Students may choose one of three exit options:

LAS 6970	Thesis	6

See the MALACS program description for more information. The thesis is publicly defended and approved by a committee of three graduate faculty members.

LAS 6905	Directed Research in Latin American and Caribbean Studies	3

Preparation of two directed research papers. Both papers require an oral presentation and approval by a committee of three graduate faculty members.

LAS 6942 Internship in Latin American and Caribbean Studies 6
Supervised internship leading to a major research paper in Latin American and Caribbean Studies. The research paper requires an oral presentation and approval by a committee of three graduate faculty members.

Each student is required to demonstrate proficiency in either Spanish or Portuguese, or in another language such as French or Haitian Creole when justified by research interests. Proficiency demonstrated by scoring an advanced level on the ACTFL exam for Spanish, Portuguese, or French administered by FIU's Department of Modern Languages. Other tests of proficiency may be accepted upon approval of the graduate advisor.

Students should apply for graduation for the MALACS M.A. as soon as they have completed all requirements for the degree – including the exit requirements. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in International Relations.

Doctor of Philosophy in International Relations Degree Requirements

Students will begin study towards the Ph.D. in International Relations immediately following their satisfactory completion of MALACS requirements. A minimum of 39 credits beyond the 36 credits required for the MALACS degree will be necessary to satisfy the requirements of the Ph.D. Program in International Relations.

Program Requirements

12 Core Course credits:

INR 6604	International Relations Theory I	3
INR 6608	Contemporary International Relations Theory	3
INR 5609	Contemporary Dynamics of International Relations	3

Second methods course from the following list (or another methods course approved by the Graduate Program Director):

INR 5616	Qualitative and Interpretive Methods in International Relations
POS 5706	Graduate Seminar in Political Science Research Methods
ECO 7424	Econometric Methods I
ANG 6480	Ethnohistorical Research Methods
ANG 6497	Qualitative Research Methods
GIS 5935	Topics in GIS
PAD 7705	Applied Quantitative Analysis I
PAD 7707	Applied Quantitative Analysis II
PAD 7703C	Empirical Methods in Public Administration

Gateway courses (9 credits)

There are four major field of study: (1) Global Political Economy and Development (2) Comparative Area Studies (3) Foreign Policy and Security Studies, and (4) Global Governance, International Law and International Ethics. Student must take one gateway course for three of these fields. Gateway courses for each field are:
(1) INR 6706 Political Economy of International Relations
(2) INR 5017 Approaches to Area Studies
(3) INR 6338 Strategic Studies
(4) INR 5409 International Law I *or*
INR 5507 International Organizations

9 Major Field credits in either:
1. Global Political Economy and Development
2. Comparative Area Studies
3. Foreign Policy and Security Studies
4. Global Governance, International Law and International Ethics.

With advisor approval, these 9 credits may include some or all of the coursework (except INR 5615) taken in satisfaction of the requirements for the MALACS degree.

6 Minor Field credits in either:
1. a second field from the above major field list, or
2. a field offered within another Ph.D. program at FIU (with approval of the Graduate Program Director), or
3. a petition field (with approval of the Graduate Program Director).

With advisor approval, these 6 credits may include some or all of the coursework (except INR 5615) taken in satisfaction of the requirements for the MALACS degree.

Elective Credits:
Elective credits necessary to bring total credits earned beyond the MALACS degree to a minimum of 24.

Dissertation:
15 credits of dissertation research.

Comprehensive Exams (6 credits)

After completing 60 hours of course work (or in the semester in which they expect to do so), students may take their written comprehensive examinations on the core sequence and in both of their fields. Students must sit for these examinations within 6 months of completing the minimum 60 hours of coursework unless granted an extension by the International Relations Graduate Program Director.

Dissertation

Within 3 months of passing the comprehensive examinations, students should publicly present a dissertation proposal that is acceptable to a committee of at least four qualified scholars. Three members of the committee, including the dissertation supervisor, must be graduate faculty members of the Department of Politics and International Relations. One must be from outside the department, but inside FIU. Other members must be approved by the International Relations Graduate Program Director. To complete program requirements, Ph.D. degree candidates must enroll for a minimum of 15 dissertation credits and maintain enrollment for 3 credits every semester until the degree is awarded.

Combined M.A. in Religious Studies/Ph.D. in International Relations Degree Pathway

The combined M.A. in Religious Studies/Ph.D. in International Relations pathway allows qualified graduate students to pursue both degrees simultaneously. Students must fulfill the requirements for both programs, and up to 36 credits completed as part of the M.A. in Religious

Studies will be counted toward the 75 credit Ph.D. in International Relations.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Verbal and Quantitative portions of the Graduate Record Exam (GRE);
4. Minimum 156 GRE verbal score or a minimum 3.5 on a 4.0 scale (or equivalent) for the last two years of undergraduate work.
5. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the internet-based TOEFL (equivalent to 575 on the paper-based version) or 6.5 overall on the IELTS is required.

Although admissions decisions typically are made in the spring, decisions for students who have not yet received their bachelor's degree will be conditional, pending confirmation of the B.A. Meeting the minimum requirements does not guarantee admission into the program. All applications are subject to review by the members of the Department of Politics and International Relations and the Religious Studies Department.

Admission Procedures

To be accepted into this pathway, students must submit an application to the Ph.D. in International Relations with a sub-plan for a M.A. in Religious Studies. This designation will appear in the menu of programs in the graduate application. The application must be submitted by January 15 in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the on-line application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable;
5. A statement of research interests, including reasons for seeking the M.A./Ph.D., future career goals, and a summary of scholarly preparation for this pathway;
6. Three letters of reference from academic sources or others able to judge academic abilities and potential; and
7. A curriculum vitae.

Masters of Arts in Religious Studies Degree Requirements (36 credits)

REL 6935	Seminar in Sacred Sources	3
RLG 6013	Modern Analysis of Religion	3
RLG 5038	Advanced Fieldwork in Religious Studies	3
12 credit hours of electives approved by the Graduate Program Director		12
RLG 6971	Thesis *or 6 additional hours of elective credits*	6
INR 5615	Research Design in International Relations	3
INR 5609	Contemporary Dynamics of International Relations	3
INR 6706	Political Economy of International Relations	3

Students who choose the thesis exit option must include at least one Politics and International Relations faculty member, though the majority must be from Religious Studies.

Doctor of Philosophy in International Relations Degree Requirements

Students will begin study towards the Ph.D. in International Relations immediately following their satisfactory completion of M.A. in Religious Studies requirements. A minimum of 39 credits beyond the M.A. degree in Religious Studies will be necessary to satisfy the requirements of the Ph.D. Program in International Relations.

Degree Requirements beyond the M.A. in Religious Studies are the following:

9 Core Course credits:

GEO 6473	Space, Place and Identity	3
INR 6604	International Relations Theory I	3
INR 6608	Contemporary International Relations Theory	3

Second methods course from the following list (or another methods course approved by the Graduate Program Director):

INR 5616	Qualitative and Interpretive Methods in International Relations
POS 5706	Graduate Seminar in Political Science Research Methods
ECO 7424	Econometric methods I
ANG 6480	Ethnohistorical Research Methods
ANG 6497	Qualitative Research Methods
GIS 5935	Topics in GIS
PAD 7705	Applied Quantitative Analysis I
PAD 7707	Applied Quantitative Analysis II
PAD 7703C	Empirical Methods in Public Administration

Gateway courses (6 credits)

Two out of INR 5017 Approaches to Area Studies, INR 6338 Strategic Studies, and either INR 5409 International Law I or INR 5507 International Organizations.

9 Major Field credits in either:

1. Global Political Economy and Development
2. Comparative Area Studies
3. Foreign Policy and Security Studies, or
4. Global Governance, International Law and International Ethics.

With advisor approval, these may include 3 credits taken in satisfaction of the requirements for the M.A. in Religious Studies.

6 Minor Field credits in either:

1. a second field from the above major field list, or
2. a field offered within another Ph.D. program at FIU (with approval of the Graduate Program Director), or
3. a petition field (with approval of the Graduate Program Director).

With advisor approval, these may include 3 credits taken in satisfaction of the requirements for the M.A. in Religious Studies.

Elective Credits:
Elective credits necessary to bring total credits earned beyond the M.A. in Religious Studies to a minimum of 24.

Dissertation Credits:
15 credits of dissertation research.

Comprehensive Exams (6 credits)
After completing 60 hours of course work (or in the semester in which they expect to do so), students may take their written comprehensive examinations on the core sequence and in both of their fields. Students must sit for these examinations within 6 months of completing the minimum 60 hours of coursework unless granted an extension by the International Relations Graduate Program Director. Before advancing to candidacy, students must also demonstrate an ability to use a foreign language other than English for scholarly purposes.

Dissertation
Within 3 months of passing the comprehensive examinations, students should publicly present a dissertation proposal that is acceptable to a committee of at least four qualified scholars. Three members of the committee, including the dissertation supervisor, must be graduate faculty members of the Department of Politics and International Relations. One must be from outside the department, but inside FIU. Other members must be approved by the International Relations Graduate Program Director. To complete program requirements, Ph.D. degree candidates must enroll for a minimum of 15 dissertation credits and maintain enrollment for 3 credits every semester until the degree is awarded.

Joint Certificate in Integrated Marketing Communications: Latin American Certification

The Joint Graduate Certificate in Integrated Marketing Communications: Latin American Certification is an 18-hour program with two required courses each from ICAP and International Relations, plus several electives from both areas. The objective of this graduate level certificate program is to prepare working communications professionals with the skills necessary to develop and implement communications programs in Latin America. It is also appropriate to provide international relations professionals who have gained communications responsibilities with a broad overview of the basic concepts and tasks of mass communications.

Required Courses – ICAP Program

PUR 6806	Global Account Planning (Prerequisite: Permission of the instructor)	3
PUR 6607	Global Strategic Communication Management (Prerequisite: PUR 6806)	3

Elective Courses – ICAP Program

MMC 6402	Theories of Mass Communication (Prerequisite: Permission of the instructor)	3
PUR 6935	Advanced Communications Seminar (Prerequisite: Permission of the instructor)	3

Required Courses – International Relations

INR 6107	U.S. Foreign Policy: Processes and Institutions	3
INR 6609	Dynamics of International Relations in the 20th Century	3

Elective Courses – International Relations

INR 4031	The Media and International Relations	3
INR 6089	International Relations and Human Rights	3
INR 6209	Comparative Foreign Policy of Latin America	3
INR 6604	International Relations Theory I	3
INR 6606	Political Psychology of International Relations	3

Current selections from the Latin American and Caribbean Center as offered.

Master of Arts in Political Science

The Master of Arts degree in Political Science at Florida International University is designed to provide students with a comprehensive knowledge of the discipline. The department's graduate program in Political Science builds on faculty strengths and distinguishes itself by stressing a comparative approach to the study of politics. The program is designed to equip its graduates with a solid foundation in the basic theories and methods of Political Science, in conjunction with an in-depth education in selected traditional subfields.

Admission Procedures

Applicants seeking admission for the Fall semester must submit all application materials by March 15th (February 15 for international students). Incomplete applications cannot be considered by the Graduate Admissions Committee. Admission decisions will be announced no later than April 15th. Applicants must apply online using the website of the FIU University Graduate School. The following items should be submitted to the FIU University Graduate School:

1. Official transcripts of all university-level work, including undergraduate or professional school courses.
2. An official report of Graduate Record Examination (GRE) scores.
3. For International graduate student applicants whose native language is not English, a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS).

It is advised to send copies of the above items to the Political Science Graduate Admissions Committee at the following address: Department of Politics and International Relations, Modesto A. Maidique Campus, 11200 S.W. 8th Street, SIPA 436, Miami, Florida 33199. Telephone: (305) 348-1077; Fax: (305) 348-3765. In

addition, applicants must submit the following directly to the Political Science Graduate Admissions Committee:

1. Two letters of reference from former instructors who are able to evaluate the applicant's potential for graduate study. Applicants should ensure that each letter is signed by the author along the sealed flap of the envelope.
2. A personal statement of intent, including a discussion of education and career objectives and the specific relationship of a Master's degree in Political Science to the achievement of those objectives. The personal statement should not exceed three typewritten, double-spaced pages.

Admission Requirements

Admission to the Master's program is competitive. Meeting the minimum requirements does not guarantee acceptance.

The minimum requirements for admission to the M.A. program include:

1. A baccalaureate degree from an accredited college or university.
2. A minimum 3.2 grade point average (on a 4.0 scale) during the last two years of a student's undergraduate program (students with graduate or professional course work will be evaluated individually).
3. Verbal and Quantitative sections of the GRE.
4. Graduates of non-U.S. institutions must be academically eligible for further study in the country where the degree was earned.
5. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Degree Requirements

The course of study for the M.A. in Political Science requires 30 credit hours. A final research project and research seminar are required components:

Required Courses: (9 credits)

POS 5716	Foundations of Political Science	3
POS 5706	Research Methodology	3
POS 6976	Research Seminar	3

Core Courses: (9 credits)

Each student is required to take three of the following four core courses:

POS 5045	Seminar in American Politics	3
CPO 5091	Seminar in Comparative Politics	3
INR 5007	Seminar in International Politics	3
POT 5007	Seminar in Political Theory	3

Electives: (12 credits)

Students are required to take four elective courses. A student may take a maximum of six credit hours in a cognate field or in an approved cognate program.

Combined B.A./M.A. in Political Science Degree Pathway

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway, but the application must be submitted to Graduate Admissions before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Students must have completed 75 credit hours.
2. Students must have been admitted to the Steven J. Green School of International and Public Affairs.
3. A 3.5 GPA overall in college work, and a 3.75 GPA in Political Science courses taken at FIU, are required.
4. Three letters of recommendation, at least two of which must be from FIU Politics and International Relations faculty, are required.
5. Students must meet admissions requirements for the M.A. in Political Science.
6. Finally, a favorable decision into the pathway by the Political Science graduate committee is required.
7. Students will be awarded the B.A. degree upon completion of the B.A. requirements, prior to completing the requirements for the M.A. degree.

Common Prerequisites and Departmental Requirements (3 courses/9 credits)

The Common Prerequisites are required introductory courses for the undergraduate major and should be among the first Political Science courses taken. The department requires one additional 2000-level course beyond the Common Prerequisites. In order to conform with both state and departmental requirements, students must take the following:

POS 2041	American Government (or its equivalent)

and two of the following three courses:

CPO 2002	Introduction to Comparative Politics (or its equivalent)
INR 2001	Introduction to International Relations (or its equivalent)
POT 2002	Introduction to Political Theory (or its equivalent)

Some transfer students will have already taken these or equivalent courses at other institutions, and should not repeat them at FIU. Students with questions about course equivalencies should contact the Political Science undergraduate advisor.

Breadth Requirement (8 courses/24 credits)

The Breadth Requirement is intended to expose majors to each of the four major sub-fields of Political Science. Two three-hour courses must be taken in each of the following subfields, for a total of 24 semester hours. These courses may not include independent studies, internships or POS 4784 Analytic Writing in Political Science.

American Politics - Any two 3000-level or above courses with a POS prefix, except POS 4784. PUP 4004 may be

used as one of the required two American Politics courses. (6 credits)
Comparative Politics - Any two 3000-level or above courses with a CPO prefix. (6 credits)
International Politics - Any two 3000-level or above courses with an INR prefix. (6 credits)
Political Theory - Any two 3000-level or above courses with a POT prefix. (6 credits)

II. Political Science Electives Requirement (6 credits) Two upper division courses with POS, CPO, INR, or POT prefixes, for a total of 6 credits. Independent studies, internships and/or POS 4784 can be applied toward the Political Science Electives Requirement.

Political Science Graduate/Undergraduate Electives Requirement (3 courses/9 credits)

Students in the combined bachelor's/master's degree pathway will take three 3-credit graduate Political Science courses at the 5000-level to satisfy this requirement. Students must be advised by the departmental Graduate Program Director before enrolling in these 5000-level courses.

The 9 hours of graduate credit taken to satisfy the undergraduate Political Science major requirement will also count as 9 credit hours toward the 30 hours of graduate courses required for the M.A. degree.

M.A. Courses

A total of 30 hours of graduate-level courses is required for the successful completion of the M.A. degree. Nine of these 30 hours will have been completed at the undergraduate level by students in the combined bachelor's/master's degree pathway.

Required Core Graduate Courses

POS 5706	Research Methodology
POS 5716	Foundations of Political Science
POS 6976	Research Seminar (to be taken during last term)

Secondary Core Graduate Courses – Choose three of the following:

CPO 5091	Seminar in Comparative Politics
INR 5007	Seminar in International Politics
POS 5045	Seminar in American Politics
POT 5007	Seminar in Political Theory

Electives – Four courses (12 credit hours)
Any 5000- or 6000-level Political Science courses. Two courses (6 credit hours) may be taken from outside the Department, with prior approval from the Graduate Program Director.

Research Project
A final research project must be completed in POS 6976 under the supervision of a Politics and International Relations faculty member. M.A. candidates are required to formally present the results of their research to faculty and peers at the end of the semester. The M.A. project will be evaluated by a three-member faculty panel.

Doctor of Philosophy in Political Science

The Doctor of Philosophy degree in Political Science at Florida International University is designed to provide students with a comprehensive knowledge of the discipline. The department's graduate program in Political Science builds on faculty strengths and distinguishes itself by stressing a comparative approach to the study of politics. The program is designed to equip its graduates with a solid foundation in the basic theories and methods of Political Science, in conjunction with an in-depth education in selected traditional subfields.

Admission Requirements

Admission to the Ph.D. program is competitive. Meeting minimum requirements does not guarantee acceptance.

The minimum requirements for admission to the Ph.D. program include:

1. A baccalaureate degree from an accredited college or university;
2. An undergraduate GPA of 3.2 and/or a graduate GPA of 3.25;
3. Verbal and Quantitative sections of the GRE.
4. Graduates of non-U.S. institutions must be academically eligible for further study in the country where the degree was earned.
5. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Degree Requirements

The Ph.D. program requires a minimum of 76 credit hours beyond the Bachelor's degree.

The Doctor of Philosophy in Political Science is conferred based on satisfactory completion of required coursework, a demonstrated mastery of a broad field of knowledge, and successful completion and defense of the dissertation. The degree provides graduates with a solid foundation in the basic theories and methodologies of Political Science in conjunction with specialization in traditional subfields. Students will, in consultation with their faculty advisors, determine the contents of their course work. Students will specialize in two examination fields drawn from the four principal subfields of Political Science: American Politics, Comparative Politics, International Politics, and Political Theory. Students are also required to take additional coursework in a third, non-examined field of specialization. The third specialization field is satisfied by a minimum of 9 credit hours in a regionally or topically defined area.

Students' proposed programs must be approved by their advisors and the Political Science Graduate Studies Committee.

Ph.D. students who have satisfied all other requirements for the M.A. apart from the exit requirement (i.e. all coursework and the foreign language competency) are eligible to receive an M.A. degree. Passing the doctoral comprehensive examinations serves as equivalent to the M.A. comprehensive examination. Ph.D. students who have satisfied these requirements should consult with the Graduate Program Director about the necessary paperwork and procedures to receive the M.A. degree in the course of their Ph.D. studies.

Required Courses: (13 credits)

POS 5702	Teaching Political Science	1
POS 5706	Research Methodology	3
POS 5716	Foundations of Political Science	3
POS 6918	Seminar in Political Science	

	Methodology	3
One course* among the following:		3
POS 6725	Formal Political Modeling	
PAD 7707	Applied Quantitative Analysis II	
SYA 6317	Social Research Quant. Methods II	
ANG 6497	Qualitative Research Methods	
POS 5745	Quantitative Content Analysis	

*The third method course requirement can be waived for students with Political Theory as their major field.

Common Core Courses: (12 credits)

CPO 5091	Seminar in Comparative Politics	3
INR 5007	Seminar in International Politics	3
POS 5045	Seminar in American Politics	3
POT 5007	Seminar in Political Theory	3

Two Examination Fields (minimum 12 credits)
Third Specialization (minimum 9 credits)
Approved Electives (minimum 6 credits)

Language Requirement

The Political Science Ph.D. program requires competency in one foreign language or demonstrated competency in computer and methodological techniques when considered more appropriate. Language competency must be demonstrated prior to taking the comprehensive examinations.

Comprehensive Examination

After satisfactory completion of course work, students will take comprehensive exams in their two chosen subfields before being admitted to candidacy and defending a dissertation proposal. The comprehensive exams will cover core courses and broad knowledge of the two examination fields. They will be written and oral.

Comprehensive examinations are given twice yearly, in mid-September and in mid-January.

Dissertation: (minimum 24 credits)

After passing the comprehensive exams, students are admitted to candidacy and enroll for dissertation credits under the supervision of their dissertation advisors. Candidates will prepare and defend a dissertation proposal. Upon completion of the work, a public defense of the dissertation will be scheduled in accordance with university policy.

Financial Aid

The program has a limited number of graduate assistantships available for qualified students.

Assistantships are awarded on a competitive basis only to full-time students. Students applying for full-time status are considered automatically for these awards.

Assistantships are renewable each year for up to four years based on satisfactory progress and performance.

Combined M.A. in Latin American and Caribbean Studies (MALACS)/Ph.D. in Political Science Degree Pathway

The Combined M.A. in Latin American and Caribbean Studies/ Ph.D. in Political Science pathway allows qualified graduate students to pursue graduate degrees in both areas simultaneously. Students must fulfill the requirements for both programs, and up to 36 credits completed as part of the M.A. in MALACS will be counted toward the 76 credit Ph.D. in Political Science.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.25 on any previous graduate work;
3. Verbal and Quantitative portions of the Graduate Record Exam (GRE);
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the internet-based TOEFL (equivalent to 550 on the paper-based version) or a 6.5 overall on the IELTS is required.

Although admissions decisions typically are made in the spring, decisions for students who have not yet received their bachelor's degree will be conditional, pending confirmation of the B.A. Meeting the minimum requirements does not guarantee admission into the program. All applications are subject to review by both the members of the Department of Politics and International Relations and the MALACS Graduate Committee.

Admission Procedure

To be accepted into this pathway, students must submit an application to the Ph.D. in Political Science with a sub-plan for a M.A. in LACS. This designation will appear in the menu of programs in the graduate application. The application must be submitted by February 1 in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable.
5. A statement of research interests, including reasons for seeking the M.A./Ph.D., future career goals, and a summary of scholarly preparation for this pathway;
6. Three letters of reference from academic sources or others able to judge academic abilities and potential.
7. A curriculum vitae; and
8. A writing sample (such as a seminar paper) which demonstrates the ability to conduct research and write effectively.

Masters of Arts in Latin America and Caribbean Studies Degree Requirements (36 credits)

During their first two years of enrollment in the Combined Degree Program, students must complete 36 credits for an M.A. in Latin America and Caribbean Studies with depth or focus courses in Political Science.

MALACS Core Courses (9 credits)
During their first two years of enrollment in this combined degree pathway, students take three core courses as follows:

LAS 6003	Survey of Latin America and the Caribbean (first year, fall semester)	3
LAS 6934	Research Seminar (first year, spring semester)	3
POS 5706	Research Methods	3

MALACS Focus Courses (12 -15 credits)
Students will take a minimum of 12-15 credits within the Department of Politics and International Relations with a Latin American and/or Caribbean focus.

MALACS Elective Courses (6-9 credit)
Student can take courses from other areas

MALACS Exit Options for Combined Degree Pathway (6 credits)
Students may choose one of three exit options:

LAS 6970 Thesis 6
See the MALACS program description for more information. The thesis is publicly defended and approved by a committee of three graduate faculty members.

LAS 6905 Directed Research in Latin American and Caribbean Studies 6
Preparation of two directed research papers. Both papers require an oral presentation and approval by a committee of three graduate faculty members.

LAS 6942 Internship in Latin American and Caribbean Studies 6
Supervised internship leading to a major research paper in Latin American and Caribbean Studies. The research paper requires an oral presentation and approval by a committee of three graduate faculty members.

Each student is required to demonstrate proficiency in either Spanish or Portuguese, or in another language such as French or Haitian Creole when justified by research interests. Proficiency demonstrated by scoring an advanced level on the ACTFL exam for Spanish, Portuguese, or French administered by FIU's Department of Modern Languages. Other tests of proficiency may be accepted upon approval of the graduate advisor.

Students should apply for graduation for the M.A. in LACS as soon as they have completed all requirements for the degree – including the exit requirements. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in Political Science.

Doctor of Philosophy in Political Science Degree Requirements

Students will begin study towards the Ph.D. in Political Science immediately following their satisfactory completion of MALACS requirements. A minimum of 40 credits beyond the 36 credits required for the MALACS degree will be necessary to satisfy the requirements of the Ph.D. Program in Political Science.

The total of 76 credits for a Ph.D. in Political Science include the following:

Program Requirements:

10 Required Course Credits:

POS 5702	Teaching Political Science	1
POS 5716	Foundations of Political Science	3
POS 6918	Seminar in Political Science Research Methods	3
One course among the following:		3
POS 6725	Formal Political Modeling	
PAD 7707	Applied Quantitative Analysis II	
SYA 6317	Social Research Quant. Methods II	
ANG 6497	Qualitative Research Methods	
POS 5745	Quantitative Content Analysis	

12 Common Core Course credits:

CPO 5091	Seminar in Comparative Politics	3
INR 5007	Seminar in International Politics	3
POS 5045	Seminar in American Politics	3
POT 5007	Seminar in Political Theory	3

12 Credits in Two Examination Fields from the following:

1. American Politics,
2. Comparative Politics,
3. International Politics, and
4. Political Theory.

With advisor approval, these 12 credits may include some or all of the coursework (except POS 5706) taken in satisfaction of the requirements for the MALACS degree.

9 Credits in Third Area Specialization:
With advisor approval, these 9 credits may include some or all of the coursework (except POS 5706) taken in satisfaction of the requirements for the MALACS degree.

Elective Credits:
Elective credits necessary to bring total credits earned beyond the MALACS degree to a minimum of 40.

Dissertation:
24 Dissertation course credits.

Comprehensive Examination
After satisfactory completion of course work, students will take comprehensive exams in their two chosen subfields before being admitted to candidacy and defending a dissertation proposal. The comprehensive exams will cover core courses and broad knowledge of the two examination fields. They will be written and oral. Comprehensive examinations are given twice yearly, in mid-September and mid-January.

Dissertation (Minimum 24 credits)
After being admitted to candidacy, students enroll for dissertation credits under the supervision of their dissertation advisors. Candidates will prepare and defend a dissertation proposal. Upon completion of the dissertation itself, a public defense of the dissertation will be scheduled in accordance with University policy.

Course Descriptions

Definition of Prefixes

CPO-Comparative Politics; INR-International Relations; POS-Political Science; POT-Political Theory; PUP-Public Policy.

CPO 5036 Politics of Development (3). This course examines divergent explanations for development and underdevelopment. Of central importance are the concepts and theories that emphasize the political dimensions of development processes of development, and actors in the development process.

CPO 5091 Seminar in Comparative Politics (3). A foundation in the development of the field of comparative politics and in the major schools of thought that have molded perspectives on comparative political analysis.

CPO 5325 Politics of the Caribbean (3). Examines the structural and institutional aspects of the politics of the Prerequisite: Graduate standing.

CPO 5745 Political Economy of Disaster Risk Reduction (3). Examines the political economy of attempts, or lack thereof, to reduce the exposures and vulnerabilities to natural and/or technological hazards of communities across world regions. Prerequisite: Graduate standing.

CPO 5934 Topics in Comparative Politics (3). A rigorous examination of a topic in comparative politics. Subject matter varies according to instructor. Topic will be announced in advance.

CPO 5936 Seminar in Comparative Political Parties (3). Students read and discuss major works on parties by conservative, liberal, and Marxist authors.

CPO 6062 Seminar in Comparative Judicial Politics (3). An examination of judicial structures, legal traditions, judicial behavior and judicial power cross culturally.

CPO 6066 Comparative Constitutional Law (3). An examination of constitutionalism in both established and developing democracies. Particular emphasis on the role of courts, judicial review and judicial remedies using doctrinal, contextual and theoretical analysis.

CPO 6084 War, Peace and the Military (3). Examines theories of the relationship between societies, governments and their militaries. Emphasis on relationship between militaries and a nation's experience with peace and participation in war. Prerequisite: Graduate standing.

CPO 6092 Seminar in Comparative Political Culture (3). Examines culturalist theories in comparative politics, including postmaterialism, social capital, and civic culture. Students test hypothesis using survey data from prominent cross-national datasets. Prerequisites: POS 5706 or equivalent.

CPO 6105 Politics of the European Union (3). Examines the development and operation of the world's most successful experiment in regional cooperation, the European Union (EU), including political economy, institutions, and policy-making. Prerequisite: Graduate Standing.

CPO 6106 Seminar on European Politics (3). Advanced discussion of major themes in European politics. Topics include corporatism, post-materialism, democratization, and European integration.

CPO 6206 Seminar in African Politics (3). Studies the crisis of African development. Topics include colonialism, internal cleavages, and impact of the global economy.

CPO 6307 Seminar on South American Politics (3). Explores the realities and myths of the democratization experience of South America.

CPO 6316 Seminar in Latin American Democratic Institutions (3). Reviews the role of institutional design in promoting accountability in Latin American democracy, including presidentialism, party systems, legislatures, electoral laws, and federalism. Prerequisite: Graduate standing.

CPO 6350 Seminar in Brazilian Politics (3). The political development of Brazil, focusing on alternation between authoritarianism and democracy. Emphasis on clientelism, patrimonialism, civil-military relations, and political institutions.

CPO 6376 Seminar in Central American Politics (3). Central America's socio-political evolution. Attention is given to both the national and international politics of the region.

CPO 6407 Seminar in Politics of the Middle East (3). In depth analysis of comparative theoretical perspectives of political processes in the Middle East.

CPO 6546 Chinese Politics (3). The course examines key issues and challenges in contemporary Chinese politics, including corruption, economic inequality, state-society relations, and China's integration into the world economy.

CPO 6771 Politics of Disaster (3). Examines disaster and other extreme events as political system shocks. Analyzes disasters as crises of values, legitimacy, and agenda control. Evaluates policy alternatives in prevention, mitigation, and response. Prerequisite: Graduate Standing.

INR 5007 Seminar in International Politics (3). An advanced graduate course designed to give students a specialized knowledge of the classics in international politics. The course traces the development of international politics from Thucydides to the present.

INR 5012 Global Issues and Human Rights (3). Identification, articulation and clarification of global issues that affect Human Rights and the global strategies used to challenge and overcome obstacles. Prerequisite: Graduate standing.

INR 5017 Approaches to Area Studies (3). Provides students the necessary tools to approach global issues from the comparative perspective of how they play out in different regions of the world.

INR 5036 Politics of Globalization (3). Intensive examination of state and global institutions that have shaped process of economic globalization. Topics include impact on sovereignty, human rights, labor and agenda-setting of large and small nation-states.

INR 5062 War, Peace and Conflict Resolution in INR (3). Explores the genesis of interstate conflict, the evolution of crisis, the outbreak of war and peace. Analyzes conflict resolution and post-conflict reconstruction processes in international relations.

INR 5066 Global and Human Security (3). Global and human security is an emerging paradigm intensified by the process of globalization and epitomized by transnational issues affecting the individual, state, region, and global system.

INR 5072 The Media and International Relations (3). Explores impact of visual and print media on practice and theory of international relations. Encourages students to question how representation of international relations issues are produced by everyday media culture. Prerequisite: Graduate standing.

INR 5086 Islam in International Relations (3). Analysis of the role of Islam in shaping the dynamics of contemporary international relations. Emphasis on the ideological, cultural, and political role of Islamic movements and states, and their relations with the West.

INR 5087 Ethnicity and the Politics of Development (3). This course examines the conceptual and substantive dimensions of ethnicity in the context of world politics and political development. The course will highlight ethnicity and ethnic groups as critical factors in North-South politics.

INR 5088 Feminism and International Relations (3). Familiarizes students with major theoretical traditions of feminist thinking and surveys feminist literature in the sub-fields of security studies, political economy, and global governance. Prerequisites: Graduate standing or permission of the instructor.

INR 5105 American Foreign Policy (3). Compares different perspectives in foreign policy analysis. Provides a comprehensive understanding of major issues in U.S. policy.

INR 5255 Seminar in African Development (3). Examines political, economic and social development in Sub-Saharan Africa in an international context. Introduces students to sources for research in African international development. Prerequisite: Graduate standing.

INR 5256 Conflict and Peacemaking in Africa (3). An examination of the root and proximate causes of national and transnational conflict in Africa, and the range of approaches used to attempt to restore peace to such conflicts. Prerequisites: Graduate standing or permission of the instructor.

INR 5275 International Relations of the Middle East (3). Focuses on IR of the contemporary Middle East, the foreign policy of major regional states, regional conflicts, and the US and other great powers' involvement, and dynamics of social and religious movements and revolutions. Prerequisites: Graduate standing or permission of the instructor.

INR 5276 Graduate Seminar The International Relations of Iran and the Persian Gulf (3). Study of the contemporary international relations of Iran and the Persian Gulf since the Islamic Revolution in 1979, relations with the Middle East, Eurasia, the Western World and the United States.

INR 5315 Foreign Policy Analysis (3). Comparative examination of theories of foreign policy making, emphasizing the international, domestic, and organizational contexts in which national policies are formulated and enacted. Prerequisites: Graduate standing or permission of the instructor.

INR 5352 Environment and Security (3). Examines the relationship between environmental issues and international security. Surveys such topics as resource scarcity, environmental degradation, and deforestation and their implications for national and regional security. Considers such topics as international environmental law, and international environmental regimes.

INR 5409 International Law I (3). Role of international law in the relations of states; nature, development, theory, sources of law; international personality; jurisdiction, including territory and nationality; dispute settlement.

INR 5507 International Organizations I (3). Study of international organizations and their role in international relations. Emphasis on their legal status, rule-making capacities and role in dispute settlement and maintenance of peace.

INR 5543 International Political Economy of East Asia (3). Introduction to the international political economy of East Asia with a focus on different paradigms that explain the rise and fall of the economy of a number of states in East Asia.

INR 5544 The New Asian Century (3). Critically examines Asian regional identity, Asia's role in the modern world economy, national and regional institution building, new security challenges, and the legacy of the past. Prerequisites: Graduate standing or permission of the instructor.

INR 5607 International Relations and Development (3). An analysis and conceptualization of the process of development as it takes place in the international context. Special attention given to the role of international organizations in promoting development and the manner in which differences in developmental levels conditions international relations.

INR 5609 Contemporary Dynamics of International Relations (3). Surveys the 20th century's large events and important tendencies decade by decade, as registered by intellectual and policy elites at the time.

INR 5615 Research Design in International Relations (3). Introduces graduate students to the principles of formulating and defending a compelling research design, gathering and analyzing evidence, and producing scholarship.

INR 5616 Qualitative and Interpretive Methods in International Relations (3). Advanced methods course that exposes students to the development and application of qualitative and interpretive methods in international relations and political science.

INR 5906 Independent Study (VAR). Directed independent research. Requires prior approval by instructor. Prerequisite: Graduate standing.

INR 5934 Topics in International Politics (3). A rigorous examination of a topic in international politics. Subject matter varies according to instructor. Topic to be announced in advance.

INR 5935 Topics in International Relations (3). Varies according to the instructor. Prerequisites: Graduate standing or permission of the instructor.

INR 5943 Internship in International Relations (1-6). Opportunity to gain practical experience in analysis and conduct of international relations by working at a consulate, governmental agency, non-governmental organization, or non-profit organization. Prerequisites: Graduate standing and permission of the instructor.

INR 5945 Graduate Pedagogy (1). The development of teaching skills required by graduate assistants, including classroom skills, designing examinations, etc. Prerequisite: Graduate Assistants.

INR 6008 Colloquium in International Studies (3). A systemic and International Relations theory supplemented with a consideration of legal, institutional and developmental issues. Prerequisite for MIB students: INR 6603 (World Politics).

INR 6010 Global Governance (3). Surveys contemporary writings on international regimes, global civil society, the relationship of global economics and politics, changing models of world order, and intergovernmental organizations. Prerequisite: Graduate standing.

INR 6019 Seminar in Comparative Area Studies (3). Examines contemporary issues in area studies, with focused attention on the interplay between domestic and international forces and the conditioning effects of global structures. Topics vary by instructor. Prerequisite: Graduate standing.

INR 6056 Environment and Development (3). Examines the relationship of development and the environment from a social theory perspective. Emphasizes Third World problems such as deforestation and soil erosion.

INR 6067 Human Security (3). Explores the debates and dilemmas of human security with an emphasis on the processes and policies actors develop in response to global threats.

INR 6092 Seminar on Non-State Actors (3). Explores the nature of non-state actors in international politics, including cities, interest groups, multi-nationals, and individuals.

INR 6089 International Relations and Human Rights (3). Examination of national and international factors affecting respect for human rights. Special emphasis on international human rights groups, foreign policy, and politics of policy implementation.

INR 6107 U.S. Foreign Policy: Processes and Institutions (3). Examines the structures and processes that shape U.S. policy toward other nations. Topics include: systemic constraints, state/society relations, interest groups, bureaucracy, and leadership.

INR 6209 Comparative Foreign Policy of Latin America (3). Theories, history, and political-economic dynamics of Latin American foreign policies and international relations. (S)

INR 6245 The Military, Latin America and International Security (3). Explores the supra-nationalization of the military institution in Latin America and how this has caused a transformation of its functional missions in the international and regional security and peace. Prerequisite: Graduate standing.

INR 6266 Seminar in Russian Foreign Policy (3). Close analysis of the theoretical foundation and policy evolution of the Soviet/Russian role in international affairs of the 20th century.

INR 6338 Seminar in Strategic Studies (3). Close analysis of key traditional and non-traditional concepts of the field of Strategic Studies, i.e. the genesis of power, war and peace, security and their relevance to and impact on International Relations.

INR 6406 International Law II (3). The course, which is the second of a two course graduate sequence, focuses on special topics, e.g., treaties, state responsibility, force and jurisdiction. Prerequisites: INR 5409 or permission of the instructor.

INR 6604 International Relations Theory I (3). An analysis of the traditional approaches to international relations theory, beginning with the classic works in the field. Emphasizes the philosophical and normative underpinnings of realism, idealism, liberalism and radicalism.

INR 6605 Contemporary International System (3). Study of synthetic review of theories of development and approaches to the study of development as a process of social, political, and economic change. Prerequisites: CPO 5036 and ESC 5025.

INR 6606 Political Psychology of International Relations (3). Study of psychological explanations for political behavior in international relations. Topics include: cognitive, motivational, and bureaucratic decision theories; leadership; and public opinion.

INR 6608 Contemporary International Relations Theory (3). Surveys contemporary theories of International Relations, including neorealism, theories of cooperation among states, approaches to international political economy, and critical theories.

INR 6705 Seminar in International Political Economy (3). Theories of economic cooperation and conflict among nation-states. Liberal, economic nationalists and Marxist theoretical paradigms are explored in an examination of the internationalization of capital, trade and investment and the role of the State in the global economy.

INR 6706 Political Economy of International Relations (3). Examines contemporary theoretical and policy debates in the area of international political economy. Reviews key concepts, theories and approaches used in the study of IPE. Prerequisites: INR 6604 or permission of the instructor.

INR 6936 Seminar in Inter-American Politics (3). Focus on U.S.-Latin American relations. Attempts to link the theoretical literature on U.S. foreign policy with empirical developments.

INR 6967 Preparation: Comprehensive Examination (1-9). Students prepare for comprehensive examination under the direction of a faculty member.

INR 6975 Thesis (1-6). Registration for students working on their thesis. Prerequisite: All other course work for the Master's in International Studies.

INR 7910 Pre-Dissertation Research (1-9). Students develop a dissertation proposal under the direction of a faculty member.

INR 7980 Ph.D. Dissertation (1-12). Supervised research on an original research project to be submitted in partial fulfillment of doctoral degree requirements. Prerequisites: Permission of the Major Professor and Doctoral Candidacy.

ISS 6132 Intelligence Community Successes and Failure: Policy Implications (3). Reviews how historical United States Intelligence Community successes and failures shaped U.S. foreign and domestic policy and examines current organizational structures.

ISS 6384 Reputation and Crisis Management (3). Establish an understanding of mass communication

principles and how they can be utilized to implement strategies and tactics related to reputation management and crisis communications.

POS 5045 Seminar in American Politics (3). The advanced study of U.S. politics. Students read and discuss major works and theories concerning American politics and government.

POS 5146 Seminar in Urban Politics (3). Examination of processes by which urban areas are governed. Emphasis is on conflicts over structures, power, policy and the politics of ethnicity and class.

POS 5158 Topics in Politics (3). Subject matter varies according to instructor.

POS 5208 Seminar in Political Behavior (3). Analyzes the literature in political behavior. Special emphasis is on voting, socialization, attitudes, partisanship, campaigning, the media, and political participation in the developed democracies. Prerequisite: POS 5706.

POS 5447 Seminar in U.S. Political Parties (3). Students read and discuss the major works and theories on U.S. political parties.

POS 5638 Topics in Public Law (3). A rigorous examination of a topic in public law. Subject matter varies according to instructor. Topic will be announced in advance.

POS 5702 Teaching Political Science (1). Introduces graduate students to the pedagogical and practical aspects of teaching political science. Topics will include selecting books, writing a syllabus, lecturing, running discussion groups, and testing and grading. Covers professional ethics, and student rights and responsibilities.

POS 5706 Research Methodology (3). This course is an introduction to the principal concepts and techniques of quantitative and non-quantitative methodology in the social sciences. It is designed to familiarize the student with the language and format of quantitative and non-quantitative applications in order to permit students to deal effectively with the literature of their field.

POS 5716 Foundations of Political Science (3). Prepares students for the advanced study of politics. Areas of study include history of political science as a discipline, comparison of classical and modern sciences of politics and realpolitik, epistemological foundations.

POS 5728 Comparative Racial Politics (3). This course explores the ways race is socially constructed globally. It will discuss how race and racism are framed by states and different racial norms and patterns of mobilization in each country.

POS 5745 Quantitative Content Analysis (3). Provides a graduate-level introduction to content analysis. Students will build the skills necessary to conduct a systematic quantitative analysis of message characteristics.

POS 5785 Writing Professionally in Political Science (3). Focus on inductive research process. Refines technical skills for effective written communication. Best practice examples for preparing briefing papers, articles, books, and grant applications.

POS 5909 Independent Study (1-6). Designed for advanced students who wish to pursue specialized topics in political science. Arrangements must be made with instructor during prior semester.

POS 5932 Topics in Urban Politics (VAR). An extensive examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is on the ways in which urban problems are identified and proposed solutions formulated, legitimatized, and administered by urban policy-making processes. Includes a discussion of urban political culture.

POS 6286 Judicial Research (3). Examination of the methodological approaches used to study courts in a political context. Special attention to seminal works that focus on individual, small group and institutional behavior, and extra-legal influences.

POS 6415 Seminar on the U.S. Presidency (3). Examines the most important works on the U.S. Presidency and the evolution of the office since 1789.

POS 6427 Seminar on the U.S. Congress (3). Discussion of the scholarly literature on Congress. Students analyze trends in congressional power and possible reforms.

POS 6612 Seminar on U.S. Supreme Court (3). Seminar covers literature, both current and classic, on U.S. Supreme Court. Topics covered typically include the major paradigms, appointment process, access, agenda setting, decision making and impact.

POS 6639 Seminar in Public Law (VAR). Graduate seminar on special topic in public law. Topic to be announced in advance.

POS 6725 Formal Political Modeling (3). Introduces students to the foundations of public choice. Particular topics may include decision theory, social choice, spatial voting models, and game theory, among others.

POS 6918 Seminar in Political Science Research Methods (3). Examines the methods used to design, execute, and critique empirical research in political science, addressing a variety of methodological issues. Prerequisites: POS 5706 and POS 5716.

POS 6937 Seminar in Politics (VAR). Subject matter varies according to instructor.

POS 6971 Thesis (1-6). Requires students to enroll for thesis or dissertation research for at least one credit hour every semester in which they are engaged in such research. Prerequisite: All other course work for the Master's.

POS 6976 Research Seminar (3). Required course for all M.A. candidates during completion of their major research project. Also required for second-year Ph.D. students. The course guides student research while in progress. Prerequisite: POS 5706.

POS 7910 Pre-Dissertation Research (1-9). During the term in which students take Ph.D. comprehensive exams, this course enables them to concentrate on completion of their dissertation prospectus. Prerequisite: Completion of all other Ph.D. coursework.

POS 7980 Ph.D. Dissertation (1-12). Supervised research and writing of an original research project. Prerequisites: Permission of Major Professor and Doctoral Candidacy.

POT 5007 Seminar in Political Theory (3). An examination of writings from a diverse list of some of the major political theorists in the Western tradition from antiquity to the present.

POT 5307 Feminist Political Theory (3). Examines feminist political theory in the second half of the twentieth century with a focus on the work of U.S. scholars.

POT 5615 Political Theory and Modernity in a Transnational Perspective (3). Explores and critically evaluates late modern (20th and 21st century) social and political theories central to the thought and practice of international politics.

POT 5635 Islamic Political Thought (3). Intensive study of major thinkers and primary texts of Islamic civilization form the development of Islamic political thought in Late Antiquity to the contemporary era.

POT 5934 Topics in Political Theory (3). An intensive examination of selected topics dealing with political theory. Subjects will vary, depending upon the desires of students and faculty. Allows the student to choose topics of particular interest to him or her.

POT 6015 Seminar in Classical Political Thought (3). Examination of key elements of classical political thought from the Hellenic to early Christian periods.

POT 6056 Seminar in Modern Political Thought (3). Examines important works and theories of political thought from the renaissance to the early 19th century.

POT 6067 Seminar in Contemporary Political Thought (3). Examines political theories of the 19th and 20th centuries. Special emphasis on the tension between modern and post-modern theory.

POT 6208 Seminar in American Political Thought (3). Students read and discuss classic and contemporary interpretations of U.S. political thought, and apply those ideas to modern U.S. politics.

POT 6315 Democratic Theory (3). Examines various theories of democracy in modern and contemporary political thought, including liberal, civic republican, deliberative, and cosmopolitan conceptions of democracy. Prerequisite: Graduate standing.

POT 6416 Seminar in Marxism (3). Analysis of the evolution of Marxism from Marx to the present. Particular attention is given to contemporary Marxist debates.

POT 6603 Political Theory of the Modern State (3). Analyzes evolution and theories of the modern state from the high middle ages to the present. Pre-state formations, classical states, and social science theories of the state are also discussed.

PUP 5934 Topics in Public Policy (1-6). A rigorous examination of a topic in public policy. Subject matter varies according to instructor. Topic will be announced in advance.

PUP 6105 Urban Challenges and Policy Innovations (3). Addresses the changing role and function of U.S. metropolitan areas in an age of growing global competition and focuses on key contemporary policy problems facing cities and suburbs.

PUP 6007 Seminar in Public Policy (1-6). Graduate seminar on special topic dealing with public policy analysis. Subject matter varies according to instructor. Topic to be announced in advance.

Public Policy and Administration

Shaoming Cheng, *Associate Professor and Chairperson*
Susannah Bruns-Ali, *Associate Professor and MPA Director*
Agatha Caraballo, *Associate Teaching Professor*
Yoon-Jung Choi, *Assistant Professor*
Amanda Clark, *Assistant Teaching Professor*
Howard A. Frank, *Professor*
Nicki Fraser, *Assistant Teaching Professor and Assistant Chairperson*
Nazife Emel Ganapati, *Professor*
Sukumar Ganapati, *Professor*
Hyewon Kang, *Assistant Professor*
Alexander Kroll, *Associate Professor and Graduate Program Director*
Milena I. Neshkova, *Associate Professor*
Meredith A. Newman, *Professor*
Valerie L. Patterson, *Clinical Professor*
Keith D. Revell, *Associate Professor and BPPS Director*
Allan Rosenbaum, *University Distinguished Professor*

Master of Public Administration

The Master of Public Administration prepares students for careers in public service and non-profit organizations. It also prepares students for private sector positions having significant contact with public organizations. The degree provides pre-service and mid-career students with an appropriate mix of technical and generalist skills needed for management and analytic positions in local, state, and federal government, as well as non-profit organizations. Students are given broad exposure to the field in the core and subsequently develop expertise within their areas of specialization. The degree also provides students with the necessary analytic and substantive background for successful pursuit of doctoral studies within the discipline. Graduates are well-prepared for positions as city manager, finance director, budget analyst, personnel director, special project coordinator and program analyst.

The MPA Program is accredited by the Network of Schools of Public Policy, Affairs, and Administration (NASPAA). NASPAA accreditation ensures that the MPA program has been reviewed and meets the national and global standards for graduate studies in the field

Admission Requirements

Applicants to the Master of Public Administration (MPA) program must:

1. Have earned a bachelor's degree from an accredited institution;
2. Have a GPA of 3.0 or better in all upper division (undergraduate) course work;
3. Take the Graduate Record Examination (GRE) if their GPA in the upper division 60 credits is less than 3.25, and submit the score by the application deadline; LSAT and GMAT Scores are also accepted as substitutes for the GRE Score. Students with more than three years of substantial administrative experience (as determined by MPA Director), and students who have more than 18 credits of graduate-level coursework with the grades of "B" or better, may be exempted from the GRE requirement by the MPA Director;
4. Submit three academic or professional letters of recommendation from faculty members at their undergraduate institution or from employment supervisors;
5. Submit a current resume; and
6. Demonstrate graduate level writing competency and interest in public service values by submitting a letter-of-intent not to exceed three double-spaced pages explaining how earning the Master of Public Administration is consistent with long-term career goals. Students may also use this letter to discuss their passion for public issues or policies and to communicate to the admission committee if they feel that their admission file does not properly reflect their potential to succeed in graduate school.

All above documents must be submitted by the stated application deadline.

Degree Requirements

The Master of Public Administration (MPA) program requires 42 credit hours.

Students with less than three years of public service (public or non-profit sectors) experience in positions with some management or project management responsibilities may be required to complete a public service internship. PAD 6946, Public Administration Internship, may be used as an elective toward satisfaction of the 42 credit requirement for program completion.

Core Courses (27 credits)

(Core Courses may be restricted to Degree-seeking or Certificate graduate students in the Department of Public Policy and Administration. All other students must seek approval of Department)

The MPA core consists of the following nine courses:

PAD 6053	Political, Social and Economic Context of Public Administration	3
PAD 6056*	The Practice of Public Management	3
PAD 6227	Public Finance and the Budgetary Process	3
PAD 6417	Human Resource Policy and Management	3
PAD 6306	Policy Analysis	3
PAD 6701	Quantitative Methods in Public Administration	3
PAD 6434	Leadership and Decision-making	3
PAD 6726	Applied Research Methods for Accountability in Public and Non-Profit Organizations (Prerequisite: PAD 6701)	3
PAD 6718	Smart Governance	3

Electives (15 credits)

Five (5) elective courses required.

Grading, Sequencing, and Substitution Policy

PAD 6053, PAD 6701, and PAD 6726, must be taken during the first 18 credit hours of course work. PAD 6701 is a prerequisite for PAD 6726.

*PAD 6056, The Practice of Public Management is a capstone experience for the program and must be taken after the successful completion of MPA core or last semester of course work. The program reserves the right to withhold the awarding of credit for course work taken out of sequence and without appropriate prerequisites.

Any core course with the exception of PAD 6056 may be waived through petition to the MPA Program Director or designee. The petitioner must demonstrate the equivalence of the previous coursework, and prove that their performance met or exceeded core requirements.

Students must maintain a 3.0 cumulative graduate GPA to graduate. A grade of 'C' or better is required for every core course. Note: A 'C-' is not acceptable.

Executive Master of Public Administration Track

The Executive MPA track (EMPA) builds upon the extensive knowledge base that experienced public service professionals possess. The EMPA curriculum provides a hands-on and in-depth exposure to the leadership, managerial and analytic skills critical to advanced public sector professionals. The core courses are the same courses required by the traditional MPA program. The difference between this track and the traditional MPA is the pedagogical approach, delivery format, scheduling, facility and the executive-level cohort.

Admission Requirements

Applicants to the Executive MPA track must:

1. Have earned a bachelor's degree from an accredited institution;
2. Have a GPA of 3.0 or better in all upper division (undergraduate) course work;
3. Take the Graduate Record Examination (GRE) if their GPA in the upper division 60 credits is less than 3.0, and submit the score by the application deadline; LSAT and GMAT Scores are also accepted as substitutes for the GRE Score. Students with more than 18 credits of graduate-level coursework with the grades of "B" or better, may be exempted from the GRE requirement by the MPA Director;
4. Submit three academic or professional letters of recommendation from faculty members at their undergraduate institution or from employment supervisors;
5. Submit a current resume showing five to ten years of cumulative experience with public or non-profit organizations and at least three years of middle-to-upper level managerial experience; and
6. Demonstrate graduate level writing competency and interest in public service values by submitting a letter-of-intent not to exceed three double-spaced pages explaining how earning the Master of Public Administration is consistent with long-term career goals. Students may also use this letter to discuss their passion for public issues or policies and to communicate to the admission committee if they feel that their admission file does not properly reflect their potential to succeed in graduate school.

Degree Requirements

The EMPA track requires 36 credit hours. The credit hour requirement is differentiated from that (42 credit hours) of the general MPA program because of Executive students' extensive and/or managerial work experience in public sector.

Core Courses: (27 credits)

(Core Courses may be restricted to Degree-seeking or Certificate-seeking graduate students in the Department of Public Policy and Administration. All other students must seek approval of Department)

The MPA core consists of the following nine courses:

PAD 6053	Political, Social and Economic Context of Public Administration	3
PAD 6056*	The Practice of Public Management	3
PAD 6227	Public Finance and the Budgetary Process	3
PAD 6417	Human Resource Policy and Management	3
PAD 6306	Policy Analysis	3
PAD 6701	Quantitative Methods in Public Administration	3
PAD 6434	Leadership and Decision-making	3
PAD 6726	Applied Research Methods for Accountability in Public and Non-Profit Organizations (Prerequisite: PAD 6701)	3
PAD 6718	Smart Governance	3

Electives (9 credits)

Three (3) elective courses required.

Grading, Sequencing, and Substitution Policy

The EMPA track is a cohort program. Classes are dynamically scheduled to meet on one weekday evening and on Saturdays. The program is designed with several weekends off in each semester. The EMPA is accelerated in that students can finish the entire program in 12 months.

Any core course with the exception of PAD 6056 may be waived through petition to the MPA Program Director or designee. The petitioner must demonstrate the equivalence of the previous coursework, and prove that their performance met or exceeded core requirements.

Students must maintain a 3.0 cumulative graduate GPA to graduate. A grade of 'C' or better is required for every core course. Note: A 'C-' is not acceptable.

Master of Science in Data Science and Artificial Intelligence - Public Policy Analytics Track

Within this track, students will master the use of statistics, computer science, quantitative methods, and big data tools to create more effective public policies. They will be able to meld machine generated data (e.g. sensors) with citizen gathered data to predict events, mine social media and the internet for behavior pattens, and create effective and appealing data visualization programs to demonstrate the effects of decisions to politicians.

Required 5 from the list below

PAD 6053	Political, Social & Economic Context of Public Administration
PAD 6306	Policy Analysis & Planning
PAD 5256	Public Economics & Cost Benefit Analysis
PUP 6006	Public Policy Analysis & Evaluation
PAD 6434	Leadership & Decision Making
STA 6247	Data Analysis II
	or
PHC 6091	Biostatistics II

Accelerated 4+1 MPA Degree Pathway

The MPA program allows qualified students to earn both their Bachelor's and MPA degrees in a shorter amount of time than typically required for earning degrees sequentially. A student admitted to the Accelerated 4+1 MPA Degree Pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Students accepted into the Accelerated 4+1 MPA Degree Pathway may take up to four MPA courses, 12 graduate credits, which will be double counted for their Bachelor's and MPA degrees.

The Accelerated 4+1 MPA Degree Pathway is open to FIU undergrad students from all Bachelor's degree programs except the Bachelor of Public Policy and Service (BPPS). BPPS students should consult the catalog description on a Combined BPPS/MPA Degree Pathway.

Undergraduate students from BA in Psychology, BS in Criminal Justice, and BS in Crime Science should consult with their academic advisors on details of their program-specific Accelerated 4+1 MPA Degree Pathway programs. The program-specific pathways have the same admission and completion requirements, but offer streamlined admission, student service, advising, and program completion.

- Accelerated 4+1 BA in Psychology/MPA Degree Pathway
- Accelerated 4+1 BS in Criminal Justice (BSCJ) and BS in Crime Science (BSCS)/MPA Degree Pathway

Admissions Requirements for the Accelerated 4+1 MPA Degree Pathway:

1. The applicant must have an overall GPA of 3.25 or better.
2. Letter of recommendation from a faculty member at FIU or from a supervisor.
3. Current resume.
4. Letter-of-intent not to exceed three double-spaced pages explaining how earning the MPA is consistent with long-term career goals. Students may also use this letter to discuss their passion for public service or policies and to communicate to the admission committee if they feel that their admission file does not properly reflect their potential to succeed in graduate school.
5. Students can apply after having completed 75 credits in a bachelor's degree program.
6. Students must apply prior to the semester in which graduate credits will be counted towards their undergraduate degree program.

Students admitted into the Accelerated 4+1 MPA Degree Pathway should take up to four courses from the listed below toward satisfying both their Bachelor's and MPA degree requirements:

- PAD 6053: Political, Social and Economic Context of Public Administration must be taken within the first two semesters after a student is accepted into the Accelerated 4+1 MPA Degree Pathway.
- Students may select at least two of the following courses to be double counted (students may select three courses):
  - PAD 6227: Public Finance and the Budgetary Process
  - PAD 6306: Policy Analysis
  - PAD 6417: Human Resource Policy and Management
  - PAD 6434: Leadership and Decision-making
  - PAD 6701: Quantitative Methods in Public Administration
  - PAD 6726: Applied Research Methods for Accountability in Public and Non-Profit Organizations (Prerequisite: PAD 6701)
  - PAD 6718: Smart Governance

• If only two courses are selected from the above list, students may select one additional graduate-level course to be double counted. The course must have a course number of 5000 or higher and have a prefix of PAD, PUP, URP or URS.

Students in the Accelerated 4+1 MPA Degree Pathway should consult their advisor regarding substitutions of the courses mentioned above for undergraduate courses in their program.

Students must pass graduate courses with a grade of B or higher to count them toward their MPA degree. Students accepted into the Accelerated 4+1 MPA Degree Pathway must fulfill all the MPA requirements to receive their MPA degree.

Accelerated (4+1 degree) BA in Psychology/MPA Degree Pathway

The MPA program allows qualified students to earn both their Bachelor's and MPA degrees in a shorter amount of time than typically required for earning degrees sequentially. A student admitted to the Accelerated (4+1 degree) BA in Psychology/MPA Degree Pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students accepted into the Accelerated (4+1 degree) BA in Psychology/MPA Degree Pathway may take up to four MPA courses, 12 graduate credits, which will be double counted for their Bachelor's and MPA degrees.

Admissions Requirements for the Accelerated Degree Pathway:

1. The applicant must have an overall GPA of 3.25 or better.
2. Letter of recommendation from a faculty member at FIU or from a supervisor.
3. Current resume.
4. Letter-of-intent not to exceed three double-spaced pages explaining how earning the MPA is consistent with long-term career goals. Students may also use this letter to discuss their passion for public service or policies and to communicate to the admission committee if they feel that their admission file does not properly reflect their potential to succeed in graduate school.
5. Students can apply after having completed 75 credits in a bachelor's degree program.

6. Students must apply prior to the semester in which graduate credits will be counted towards their undergraduate degree program.

Students admitted into the Accelerated (4+1 degree) BA in Psychology/MPA Degree Pathway should take up to four courses from the listed below toward satisfying both their Bachelor's and MPA degree requirements:

- PAD 6053: Political, Social and Economic Context of Public Administration must be taken within the first two semesters after a student is accepted into the Accelerated Degree Pathway.
- Students may select two of the following courses to be double counted:
    - PAD 6227: Public Finance and the Budgetary Process
    - PAD 6306: Policy Analysis
    - PAD 6417: Human Resource Policy and Management
    - PAD 6434: Leadership and Decision-making
    - PAD 6701: Quantitative Methods in Public Administration
    - PAD 6726: Applied Research Methods for Accountability in Public and Non-Profit Organizations (Prerequisite: PAD 6701)
    - PAD 6718: Smart Governance
- Students may select one additional graduate-level course to be double counted. The course must have a course number of 5000 or higher and have a prefix of PAD, PUP, URP or URS.

Students in the Accelerated (4+1 degree) BA in Psychology/MPA Degree Pathway should consult their advisor regarding substitutions of the courses mentioned above for undergraduate courses in their program.

Students must pass graduate courses with a grade of B or higher to count them toward their MPA degree. Students accepted into the Accelerated Degree Pathway must fulfill all the MPA requirements to receive their MPA degree.

Combined BPPS/MPA Degree Pathway

The combined BPPS/MPA degree pathway offered by the Department of Public Policy and Administration allows qualified students to earn both degrees in a shorter amount of time than typically required for earning degrees sequentially. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Admissions Requirements to the Combined Degree Pathway

1. Overall GPA of 3.2 or better.
2. Letter of recommendation from a faculty member at FIU or from a supervisor.
3. Current resume.
4. Letter-of-intent not to exceed three double-spaced pages explaining how earning the Master's of Public Administration is consistent with long-term career goals. Students may also use this letter to discuss their passion for public issues or policies and to communicate to the admission committee if they feel that their admission file does not properly reflect their potential to succeed in graduate school.
5. Application to the combined pathway after having completed at least 75 credit hours in the BPPS program.
6. Completion of at least 12 credits of Public Administration coursework and at least 24 credits of coursework at FIU.
7. Completion of all lower division requirements, including the University Core Curriculum, prior to acceptance to the combined pathway.
8. Attainment of a grade of 'B' or better on all graduate courses completed while in the BPPS program.

Courses Counted Toward both Degree Programs

Students accepted into the combined degree pathway may count no more than 4 of the master's courses (maximum of 12 credits) listed below toward satisfying ***both*** the BPPS and MPA degree requirements:

PAD 6053	Political, Social and Economic Context of Public Administration	3

must be among the four double-counted courses

Students may select 3 of the following courses to be doubled-counted:

PAD 6227	Public Finance and the Budgetary Process	3
PAD 6306	Policy Analysis	3
PAD 6417	Human Resource Policy and Management	3
PAD 6434	Leadership and Decision-Making	3
PAD 6701	Quantitative Methods in Public Administration *(Prerequisite: PAD 4704)*	3
PAD 6726	Applied Research Methods for Accountability in Public and Non-Profit Organizations *(Prerequisite: PAD 6701)*	3

With advisor approval, these graduate courses can be substituted for the equivalent required or any elective bachelor's in public administration courses listed in the program catalog, with the exception of PAD 4934 Integrative Seminar in Public Policy and Service, which must be taken by all BPPS majors. Students must maintain a cumulative GPA of 3.0 or better in all upper level and graduate level coursework completed as prior to admission to the MPA program.

Students accepted into the accelerate BPPS/MPA degree pathway must complete all of the requirements of the MPA to receive their graduate degree.

Accelerated (4+1) BSCJ/BSCS MPA Degree Pathway

The MPA program allows qualified students to earn both their Bachelor's and MPA degrees in a shorter amount of time than typically required for earning degrees sequentially. A student admitted to the Accelerated (4+1) degree BSCJ/BSCS MPA Degree Pathway will be considered to have undergraduate status until the student applies for graduation from bachelor's degree program.

Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships.

Students accepted into the Accelerated (4+1 degree) BSCJ/BSCS MPA Degree Pathway may take up to four MPA courses, 12 graduate credits, which will be double counted for their Bachelor's and MPA degrees.

Students accepted into the Accelerated (4+1 degree) BSCJ/BSCS MPA Degree Pathway may take up to four MPA courses, 12 graduate credits, which will be double counted for their Bachelor's and MPA degrees.

Admissions Requirements for the Accelerated Degree Pathway:

- The applicant must have an overall GPA of 3.25 or better
- Letter of recommendation from a faculty member at FIU or from a supervisor
- Current resume
- Letter-of-intent not to exceed three double-spaced pages explaining how earning the MPA is consistent with long-term career goals. Students may also use this letter to discuss their passion for public service or policies and to communicate to the admission committee if they feel that their admission file does not properly reflect their potential to succeed in graduate school.
- Students can apply after having completed 75 credits in bachelor's degree program.
- Students must apply prior to the semester in which graduate credits will be counted towards their undergraduate degree program.

Students admitted into the Accelerated (4+1 degree) BSCJ/BSCS MPA Degree Pathway should take up to four courses from the listed below toward satisfying both their Bachelor's and MPA degree requirements:

- PAD 6053: Political, Social and Economic Context of Public Administration must be taken within the first two semester after a student is accepted into the Accelerated Degree Pathway.
- Students may select at least two of the following courses to be double counted (students may select three courses)
    - PAD 6227: Public Finance and the Budgetary Process
    - PAD 6306: Policy Analysis
    - PAD 6417: Human Resource Policy and Management
    - PAD 6434: Leadership and Decision-making
    - PAD 6701: Quantitative Methods in Public Administration
    - PAD 6726: Applied Research Methods for Accountability in Public and Non-Profit Organization (Prerequisite: PAD 6701)
    - PAD 6718: Smart Governance
- If only two courses are selected from the above list, students may select one additional graduate-level course to be double counted. The course must have a course number of 5000 or higher and have a prefix of PAD, PUP, URP, or URS.

Students in the Accelerated (4+1 degree) BSCJ/BSCS MPA Degree Pathway should consult their advisor regarding substitutions of the courses mentioned above for undergraduate courses in their program.

Students must pass graduate courses with a grade of B or higher to count them toward their MPA degree. Students accepted into the Accelerated Degree Pathway must fulfill all the MPA requirements to receive their MPA degree.

Juris Doctor/Master of Public Administration Joint Degree Pathway

The faculties of the College of Law and the Steven J. Green School of International and Public Affairs have approved a joint degree program culminating in both a Juris Doctor degree (J.D.), awarded by the College of Law, and a Master of Public Administration degree (MPA), awarded by the Steven J. Green School of International and Public Affairs. Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. Essential criteria relating to the joint degree program are as follows:

1. Candidates for the pathway must meet the entrance requirements for and be accepted by both programs. Both programs must be informed by the student at the time of application to the second program that the student intends to pursue the joint degree.
2. The joint degree pathway is not open to students who have already earned one degree.
3. For law students, enrollment in the MPA program is required no later than the completion of 63 credit hours in the J.D. program. For MPA students, enrollment in the J.D. program is required no later than the third semester after beginning the MPA program. A summer session is counted as half a semester.
4. A student must satisfy the curriculum requirements for each degree before either degree is awarded. The Department of Public Administration will allow 9 credit hours of College of Law courses, as approved by the MPA program Director, in consultation with the Dean of the Steven J. Green School of International and Public Affairs, to be credited toward both the MPA and J.D. degrees.
5. Reciprocally, law students may receive 9 hours of credit toward the satisfaction of the J.D. degree for courses taken in the MPA curriculum upon completion of the MPA degree with a grade point average of 3.0 or higher.
6. A student accepted by both degree programs may begin studies in either the College of Law or the Department of Public Administration, but full-time law students must take the first two semesters of law study consecutively and part-time law students must take the first three semesters of law study consecutively. Students electing to begin study in one school under the joint degree program may enter the second school thereafter without once again qualifying for admission so long as they have notified the second school before the end of the first week of the first semester in the second school and are in good academic standing when studies commence in the second school.
7. A student enrolled in the joint degree pathway will not receive either degree until the student has satisfied all of the requirements for both degrees, or until the

student has satisfied the requirements of one of the degrees as if the student had not been a joint degree candidate.

Master of Science in Criminal Justice/Master of Public Administration Joint Degree Pathway

The Department of Criminology and Criminal Justice and the Department of Public Policy and Administration have a joint degree pathway culminating in both a Master of Science in Criminal Justice (MSCJ) and a Master of Public Administration (MPA). The joint degree pathway prepares graduate students for overlapping careers in criminal justice and public management. It is intended to prepare students for positions in public, private, and nonprofit organizations that require both criminal justice and management knowledge. Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. Important criteria relating to the joint degree pathway are as follows:

1. Candidates in the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate in the application their intention to pursue the joint degree option. Students deciding to pursue the joint degree option after having been admitted to one program will indicate this intention only on their second application.
2. Applicants for a joint degree pathway will not be accepted from candidates who have already completed either degree. MSCJ or MPA students must apply and be admitted by no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Joint degree pathway candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first-degree program requirements as if the student had never been a joint degree candidate.
4. The joint degree pathway requires a total of 60 credit hours. Candidates must complete 14 core courses included in the MSCJ and MPA programs (42 credits) and 6 electives (18 credits). A minimum of 2 electives must be taken within the CCJ and 2 electives in PA.

Doctor of Philosophy in Public Affairs

The Doctor of Philosophy in Public Affairs (Ph.D.) is intended to prepare graduates for research and analytic positions in universities, public bureaucracies, and nonprofit organizations. The degree content provides a foundation for undertaking policy-oriented research with emphases on urban and comparative public management and related areas of public interest. Doctoral students will be expected to demonstrate the capacity for conducting this research through successful passing of coursework and comprehensive examinations, as well as the defense of a dissertation.

The Ph.D. program broadly encompasses public administration, management, policy and service.

Admission Requirements

Generally, applicants must have a Master's degree prior to program enrollment, though outstanding applicants may also be considered with only a baccalaureate degree. Admission is not restricted to students with prior course work in Public Administration. The program encourages applicants with diverse academic backgrounds, with preference given to those with grounding in the policy or administrative sciences.

In order to be admitted to the Ph.D. program, an applicant must submit the following materials:

1. Complete FIU Application for Doctoral Programs;
2. Transcripts (applicants must demonstrate excellence in prior academic work by an earned GPA of 3.25 or better in either the undergraduate degree or the graduate degree);
3. Official GRE or GMAT scores (applicant is expected to have 60 percentile scores in the verbal and quantitative sections);
4. A personal statement describing the applicant's background, career goals, and the reasons for pursuing a Ph.D. in Public Affairs. The statement should also indicate how research and career interests fit with those of current faculty;
5. A current resume;
6. Three references using the program's recommendation form;
7. At least one writing sample.

Foreign applicants must demonstrate proficiency in the English language by presenting a minimum score of a 100 on the TOEFL iBT (equivalent to 600 on the paper-based Test of English as a Foreign Language, TOEFL PBT. If applicants take the language proficiency assessment administered by the International English Language Testing System (IELTS), a minimum score of 7.0 is desirable. All students living within a 50-mile radius are strongly encouraged to interview with the Ph.D. Director during the admissions process. Telephone interviews may be arranged for students living outside a 50-mile radius.

The admission process is competitive and the program considers all of the evidence in the application file in making its decision. Meeting the minimum requirements does not guarantee admission and applicants failing to meet the minimum requirements may be admitted based on other evidence of potential, such as prior research or senior executive status.

Admitted students may transfer a maximum of 12 semester credits from other institutions towards Ph.D. degree requirements, subject to the approval of the Doctoral Committee. Admitted students must demonstrate knowledge of American political institutions, basic theories of public administration, social science research methods, and substantive areas of the student's research interest. Students with deficiencies in any of the above-mentioned areas may be assigned additional specific coursework.

Financial Aid

The objective of financial aid is to provide direct assistance to those students who require financial assistance to complete their doctoral programs, and to enhance the reputation of the program by attracting an outstanding cadre of students.

To receive financial aid from University and Program sources, doctoral students must be enrolled full-time (9 semester hours during the term in which they receive

financial aid). Students having graduate assistantships cannot hold other employment.

The exact amount of financial assistance depends upon funding provided by the University and the legislature. The current level of Program assistance is approximately $19,000 annually. Students on assistantships are eligible for tuition waivers. Assistantships do not cover additional student fees, such as health, parking, athletic fees, and per credit fees.

Program financial aid is awarded in one-year blocks, and is generally provided for up to three years of the student's doctoral study.

The University has a variety of other financial aid opportunities including graduate grants, scholarships, loans, work-study programs and targeted scholarships. Information on these and other opportunities are available through the University' financial aid offices. To apply for assistance, students should notify the Ph.D. Director of their intent at the time of application. For matriculation fee waivers and University assistance, students must file the University's Financial Aid Form (FAF) and the other University aid documents. Information on the university procedures is available in the University's Financial Aid office.

Degree Requirements

To obtain the degree, admitted students must complete at least 63 semester hours beyond the Master's degree or its equivalent, including 48 semester hours of approved course work and 15 hours of dissertation work after advancing to candidacy. In addition, there is a residency requirement of at least 18 semester hours in three consecutive semesters of study during the first year of enrollment in the Ph.D. Program and a minimum of six hours required in all subsequent semesters.

Successful completion of course work and passing scores on the comprehensive examination are required before students can advance to candidacy for the Ph.D. After advancing to candidacy, students must defend a dissertation proposal. Students are advised to consult the doctoral program handbook for any additional information regarding benchmarks for student progress in grade point average, course completion, comprehensive examinations and dissertation work.

Program of Study

The Doctor of Philosophy in Public Affairs is a 63 semester hour program beyond the Master's degree, with nine required courses (27 semester credit hours), five specialization elective courses (15 semester credit hours), a comprehensive examination (six semester hours), and dissertation (15 semester hours). Students without a Master's degree (i.e., those with a Bachelor's degree only) will need to take minimum of 75 semester credit hours in the doctoral program.

During the first semester of the program, students are required to select, with the assistance and approval of the Ph.D. Director, an Advisor who is a full-time faculty member in the program. By the end of the first year, students are required to develop a program of study with the assistance and approval of their Advisor and the Ph.D. Director. The Advisor may not necessarily be the same as the student's Dissertation Committee Chair at the later stage.

Principal Core Curriculum (21 credits)

PAD 7277	Public Administration and the American Political Economy	3
PAD 7155	Organizational Development and Change in Public and Nonprofit Organizations Development Administration)	3
PAD 7703C	Empirical Methods in Public Administration	3
PAD 7705	Applied Quantitative Analysis I	3
PAD 7707	Applied Quantitative Analysis II	3
PAD 7055	Scope and Theory of Public Administration	3
URS 7156	Research Practicum	3

Flexible Core Courses (6 credits)

Select two courses from the following:

PAD 7808	Economic Development and Urban Management	3
PAD 7865	Development Administration	3
PAF 7002	Foundations of Policy Analysis	3
URS 7644	Managing Public Financial Resources	3
URS 7380	Contemporary Management Issues and Problems	3

Specialization Courses (15 credits)

Students are required to take five courses in an area of specialization to be designed with the Advisor. The courses must be at the 5000, 6000, or 7000 level and may be taken within the University. These specialization electives may also be especially designed courses developed in conjunction with the student's Advisor and with approval of the Ph.D. Director. Specialization areas may include subfields within the discipline of Public Administration (e.g., human resource management; sub-national administration and policy) or may involve cognate disciplines (e.g., health services administration; criminal justice administration; environmental management). At least three hours must be URS 7926 (Supervised Readings).

In developing a specialization and program of studies, students may consult with Public Policy and Administration faculty (and faculty in their major's department, if appropriate). If the student's principal area of interest is in a cognate discipline outside of Public Administration or the major's department, the student and Ph.D. Director should consult with appropriate faculty in designing the study program.

Comprehensive Examination (6 credits)

Subsequent to completion of course work, students are required to pass a two-part comprehensive examination. The first component of the comprehensive examination is a written examination testing for knowledge of the Ph.D. core and related material. The second component is the submission of a research proposal that outlines the dissertation research problem, its significance, and the research method.

Students who fail the Comprehensive Examination on the first attempt must retake it at its next offering. Students who fail the examination twice are automatically dismissed in accord with general University policy.

Dissertation (15 credits)

In consultation with the Ph.D. Director and the Advisor, students should identify Dissertation Committee Chair during the first two years of the program. The student

should also form the Dissertation Committee before the comprehensive examination. Upon successful completion of the comprehensive examination, students should defend their dissertation proposal. Students are expected to defend the proposal before the end of the first semester subsequent to passing the Comprehensive Examination.

Upon the public defense and approval of the proposal, the students will initiate formal work on the dissertation. During this time, the students are expected to make appropriate progress toward completing the dissertation, and to enroll continually (see continuous enrollment policy) until the degree is completed. Upon completion of the dissertation, candidates will formally defend the research at a meeting conducted by the Dissertation Committee. The degree will be awarded upon a positive recommendation of the Committee and compliance with all policies and procedures required by the University.

Award of en route Master's Degree to Ph.D. Candidates: Under certain circumstances, individuals directly admitted into the Ph.D. program following completion of their bachelor's degree, may be awarded a Master's degree in Public Administration or the appropriate major. To be eligible, a student must complete core requirements in the master's program. Upon certification by the student's advisor that this requirement has been met, the Ph.D. committee will approve the award of the master's degree upon passing of comprehensive examinations.

Course Descriptions

Definition of Prefixes

PAD-Public Administration; PAF-Public Affairs; PUP-Public Policy; URP-Urban and Regional Planning; URS-Urban and Regional Studies.

PAD 5041 Values and Technology in Modern Society (3). Surveys personal and societal value assumptions in the context of the technological society. Examines organizational-societal value structures, and the ways in which technology creates rapid change and new alternatives in values. Also interrelationship of the past, present and future is explored, through futurism and forecasting techniques.

PAD 5043 Equitable and Inclusive Governance (3). Examines important principles, policies, and legislation focused on equity and inclusiveness in public service delivery to diverse and underrepresented groups.

PAD 5187 Cultural Competency (3). To introduce students to the concept of cultural competence, explore its relationship to diversity and inclusion measures, develop skills to create more culturally competent organizations and policies.

PAD 5256 Economic Thinking in Policy Making (3). Provides an introduction to basic economic principles, applications, and tools in the policymaking process.

PAD 5416 Social Equity and Human Resource Management (3). The course deals with the human resource management issues arising from equity and affirmative action requirements in the workplace.

PAD 5427 Collective Bargaining in the Public Sector (3). The course deals with the nature and implications of collective bargaining for managers and employees in (and students of) public organizations. The course emphasizes similarities and differences between the private and public sectors, as they apply to collective bargaining.

PAD 5435 Gender Equity and Leadership in Public Administration (3). Explores the factors that impact women's career advancement and leadership opportunities, and examines both barriers and opportunities to career progression.

PAD 5443 The Public Administrator and Media Relations (3). Surveys the government-mass communication media relationship, and then concentrates on the ways in which public managers handle media relations. Emphasis throughout is placed on questions of information-handling unique to public organizations, involving, for example, adherence to Florida's Sunshine Law and the Federal Freedom of Information Act.

PAD 5460 Performance Management (3). Provides measures to improve organizational and worker productivity using applied behavioral science.

PAD 5616 Contracting and Managing Third Party Governments (3). Analyzes the legal foundations, administrative and economic characteristics of government instrumentality's as they are used to pursue public policy. Analyzes how and why different combinations of instrumentality's are used in different policy areas.

PAD 5660C Applied Legal Context of Public Administrators (3). An overview of constraints and latitude the legal system grants to public administrators and managers. Provides the applied legal information required to make effective decisions in the public sector.

PAD 5661C Management of Court-Agency Relations (3). Examines applied judicial-administrative relations with particular emphasis on administrative policymaking. Covers the legal, environmental, and political factors that influence administrative strategies of policy and program compliance.

PAD 5805 Economic Development and Urban Revitalization (3). This course is an interdisciplinary examination of research and practice in contemporary economic development, with emphasis on successful implementation in a variety of settings.

PAD 5934 Contemporary Issues in Public Administration (3). An analysis of major conceptual issues currently facing public administrators. May be repeated for credit.

PAD 6038 Policy Formulation and Legitimation (3). This course examines the social, political and economic factors which influence the development, formulation, and legitimation perspective of public policy with emphasis on public administrators.

PAD 6042 Democracy and the Administrative State (3). Juxtaposes the contemporary administrative condition of American government with the values of the democratic state. Different approaches to democracy - in practice as well as in theory - will be analyzed, and their implications for public organizations and individual administrators examined.

PAD 6053 Political, Social and Economic Context of Public Administration (3). Examines the context in which

public organizations operate, stressing the relationship between such organizations and their multifaceted environment. Emphasis is on examining relevant social and cultural mores and patterns, political values and processes, governmental institutions, economic systems, resource availability, and other environmental factors currently significant to public organizations. Prerequisite: Admission to the majors.

PAD 6056 The Practice of Public Management (3). This capstone course for the MPA Program will deploy skills, concepts, and knowledge acquired in previous course work in analytic exercises related to students' areas of specialization. Prerequisite: Admission to the majors.

PAD 6142 Management of Nonprofit Organizations (3). Studies the characteristics, roles, and challenges of nonprofit entities. Topics include structure and governance, financial reporting and accountability, financial development, and contract management. Prerequisite: Admission to the majors.

PAD 6156 Applied Organization Theory and Behavior (3). Contemporary approaches to improving the overall effectiveness of public organizations through the utilization of the applied behavioral sciences: personal and executive development programs, team building, action research, etc. Survey of research on the effects of organizational development programs, with special reference to public organizations.

PAD 6205 Public Financial Management (3). Capital asset administration, debt administration, revenue systems, public employee retirement programs, purchasing, inventorying, and risk management.

PAD 6209 Financial Management in Public and Nonprofit Organizations (3). Processes, tools and methods used in financial planning and control of public and nonprofit entities with focus on utilization of critical performance indicators deployed over agency budget and life cycles. Prerequisites: PAD 6227, admission to the majors.

PAD 6224 Advanced Seminar in Public Budgeting (3). A review of the state of the art in public budgeting, emphasizing conceptual areas for significant research and appropriate methodological design for addressing them. Prerequisites: PAD 6227, PAD 6229, and PAD 6205.

PAD 6225 Comparative Public Budgeting (3). Public budgeting is a common activity in all governments and international organizations. Covers the differences in budgeting and explores patterns implicit in those differences.

PAD 6227 Public Finance and the Budgetary Process (3). Examines the theory and practice of public budgeting and its relationship to the administrative processes of control, management and planning. Special emphasis will be given to the social balance question; the kinds and scope of government expenditures; the fiscal role of government in a mixed economy; sources of revenue available to government; administrative, political and institutional aspects of the budget and the budgetary process; and problems and trends in intergovernmental financial relations. Prerequisite: Admission to the majors.

PAD 6229 Advanced Management Techniques (3). Explores quantitative revenue and expenditure models and other techniques which address public sector decision making under conditions of resource constraint. Prerequisites: PAD 6205 or permission of the instructor.

PAD 6306 Policy Analysis (3). The focus is on conducting policy analysis for decision making in the public, nonprofit, and private sectors. Policy analysis tools are applied systematically and critically to arrive at policy advice for decision makers and citizens. Prerequisite: Admission to the majors.

PAD 6366 Policy and Program Implementation (3). This course examines and evaluates the legal, socio-political administrative factors influencing the implementation of public policy and programs. Prerequisite: PUP 6015. (S)

PAD 6379 Homeland Security Risk Assessment (3). Provide the technical framework needed for design, implementation, and evaluation of risk assessments used in local, regional, and state Homeland Security administration.

PAD 6399 Homeland Security Management for State and Local Government (3). Provides a broad overview of the legal, technical, financial, and organizational environment in which Homeland Security initiatives are designed and successfully implemented.

PAD 6417 Human Resource Policy and Management (3). The course focuses on the role of the personnel manager and how the manager performs tasks connected to human resources development, policy and management in public and nonprofit organizations. Prerequisite: Admission to the majors.

PAD 6434 Leadership and Decision-making (3). Readings and case studies examine how effective leaders in the public and non-profit sectors make decisions in fluid and challenging environments. Prerequisite: Admission to the majors.

PAD 6436 Professionalism and Ethics (3). Examines behavioral approaches toward understanding the personal world of public managers with emphasis on knowledge, skills, and abilities which aid effective goal accomplishment.

PAD 6437 Dynamics of Individual Growth (3). This course focuses on the importance of small group theory to the personal growth of the administrator, and the role of interpersonal abilities in effectively serving client groups. The course also deals with the expansion of the phenomenological world view of each student; and will look at existential theory and the dilemma of personal growth.

PAD 6605 Administrative Law and Procedures (3). Emphasizes the responsibilities public administrators have under local, state, and federal laws. Explores such concepts as client responsiveness under the law; the regulatory process; state administrative law systems; the executive order process; the relationship between administrative law and the checks-and-balances system; discretionary justice; and others.

PAD 6701 Quantitative Methods in Public Administration (3). An intensive introduction to statistical and forecasting tools appropriate for public, nonprofit, and health professionals. Prerequisite: Admission to the majors.

PAD 6710 IT and E-government (3). Studies the electronic delivery of government information and services and the problems of managing information technology in the public sector. Survey technology principles of IT and E-government. Prerequisite: Admission to the majors.

PAD 6715 Public Monitoring Systems for Government Organizations (3). Focuses on the formal information system which is or can be used to guide a public organization and judge its performance.

PAD 6717 GIS Applications for Urban Management (3). Geographic Information System Applications for urban decision makers and social scientists.

PAD 6718 Smart Governance (3). Examines smart governance systems that use cyber technologies for organizational management and delivery of public services. It explores innovative designs for achieving democratic values effectively.

PAD 6726 Applied Research Methods for Accountability in Public and Nonprofit Organizations (3). Tools, methods, and concepts employed to reengineer public and nonprofit agencies and to design performance indicators needed to enhance customer satisfaction and strategic service delivery. Prerequisites: PAD 6701, admission to the majors.

PAD 6807 Urban and Municipal Government Administration (3). Detailed examination of problems facing the municipal administrator; of the pressures upon the contemporary urban environment; and of the administration of large metropolitan areas comprised of numerous entities. Emphasis will be on determination of current trends, discussion of cases, and arrival at suggested solutions.

PAD 6816 Regional and State Government Administration (3). Surveys the historical development of regional administration, analyzes present administrative problems of the states, and explores contemporary and suggested remedial policies. Emphasizes the complex problems of the institutional relationships among local, state and regional governments, and their implications for public policy-making.

PAD 6836 International Public Administration (3). The role of public administration systems around the world; and the impact of political and socio-cultural frameworks on administration. Focus on national and state organizations' politics, economics, problems, and possibilities. A review of scope and programs of contemporary international public administration organizations.

PAD 6838 Development Administration (3). The role of public administration in national development, with specific attention to theories of economic aid from external sources, and the effects of this aid. Theories and policies of economic and social development are explored; and particular attention is given to the role of the United States in strengthening administrative capabilities as an important means for achieving developmental goals in selected countries.

PAD 6839 Comparative Public Policy (3). This course addresses policy formulation and implementation as a general process of administrative action that can be investigated among the varying nation-states. It covers the differences in policy and explores patterns implicit in those differences. Prerequisites: PAD 6836 or PAD 6838.

PAD 6855 Introduction to Public Procurement (3). Course covers each phase of contract and project cycle, with an emphasis on tools and techniques to manage a public contract or project.

PAD 6856 Contract and Project Management (3). Overview of public procurement as a basic function of government. Public/private contracting arrangements studied in context of organizational structure, regulations, and current procurement issues.

PAD 6907 Independent Study in Public Administration (1-6). (Normally 3 credit hours) Individual conferences; supervised readings; reports on personal investigations and similar undertakings. Prerequisites: Completion of required courses in public administration is expected. Consent of faculty sponsor and Program Director required.

PAD 6915 Independent Research in Public Administration (1-6). (Normally 3 credit hours) An individualized research project and report which, if feasible, should include field work with a public organization. Prerequisites: Completion of required courses in public administration is expected. Consent of faculty sponsor and Program Director required.

PAD 6946 Public Administration Internship (0-3). (Normally 3 credit hours) Supervised work in a public or quasi-public organization. Should not be undertaken until completion of required courses in public administration program. May be repeated. Prerequisite: Approval of internship coordinator.

PAD 7026 Proseminar in Public Administration and Policy (3). An intensive introduction to American Public Administration and Public Policy making and implementation by "The Fourth Branch" of government.

PAD 7055 Scope and Theory of Public Administration (3). An integrative capstone seminar in which traditional models of Public Administration are explored and employed to analyze the structures and dynamics of public organizations and to develop alternative models and new theoretical perspectives concerning the scope and theory of the field.

PAD 7102 Advanced Organization Theory (3). Philosophical foundations of contemporary organization theory, with emphasis on dynamic interfaces between the environmental contexts and organizations, critical analysis of both the normative and incremental orientation of concepts, theories, models, and applications. Prerequisites: PAD 6106 or equivalent.

PAD 7155 Organizational Development and Change in Public and Nonprofit Organizations (3). Explores the unique challenges to implementing effective management environments in public and nonprofit organizations. Emphasis on organizational diagnosis and performance measures.

PAD 7257 Economic Context of Government (3). This course examines interdisciplinary approaches to collective decision making and the delivery of public goods and services.

PAD 7277 Public Administration and the American Political Economy (3). An analysis of the origins and

growth of the American administrative state within the broader socioeconomic and cultural context, with particular emphasis on the post-World War II era.

PAD 7607 Legal Context of Public Administration (3). This course analyzes the administrative significance of delegation, judicial review, rule making, freedom of information and sunshine laws, legislative veto, and liability for administrators. Prerequisite: PAD 6053.

PAD 7703C Empirical Methods in Public Administration (3). An advanced research seminar focusing on research design and proposal development in public policy and administration. Particular attention is given to qualitative research methods.

PAD 7705 Applied Quantitative Analysis I (3). Introduction to and application of selected linear multivariate statistical and quantitative models to the field of public administration. Prerequisites: PAD 6701 and PAD 6726.

PAD 7707 Applied Quantitative Analysis II (3). Advanced non-linear statistical and quantitative modeling methods for public administration research; topics include regression models for count data and for discrete and limited dependent variables. Prerequisite: PAD 7705.

PAD 7808 Economic Development and Urban Management (3). Details the theory and practice of contemporary urban management, with particular emphasis on development of the economic base as a requisite in a competitive federal system.

PAD 7865 Development Administration (3). Policies and institutions fostering decentralization and the rise of civil society in less-developed nations; strategies for change and political, cultural, and economic drivers of progress.

PAD 7929 Dissertation Prospectus Development (3). To provide students with the analytic and conceptual frameworks needed for crafting defensible dissertation prospectuses.

PAD 7960 Comprehensive Examination in Public Affairs (6). Intensive preparation for the comprehensive examinations in Public Affairs in both the core and areas of specialization. Prerequisite: Completion of program of studies.

PAD 7980 Ph.D. Dissertation (1-12). This course provides dissertation guidance to doctoral candidates in the Ph.D. program in public administration. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

PAF 7002 Foundations of Policy Analysis (3). Intensive exploration of models, theories, and designs applied to quantitative and qualitative methods of public policy analysis. Instruction and case studies cover a wide range of normative and policy issues. Prerequisites: PAD 6306 and PAD 6053.

PUP 6006 Public Policy Analysis and Evaluation (3). A framework for evaluating public policy-making will be presented. The emphasis will be on criteria and methodologies available for choosing among alternative courses of action. The systems approach, alternative futures, and nth-order consequences of policies will be analyzed.

PUP 6015 Public Policy (3). An intensive analysis of the normative theories of public policy making, with emphasis on the processes by which policy choices are made and implemented by government agencies. The current trends and perspectives of effective policy development (such as participatory democracy, multi-valued choice, etc.) are examined.

PUP 6105 Urban Challenges and Policy Innovations (3). Addresses the changing role and function of U.S. metropolitan areas in an age of growing global competition and focuses on key contemporary policy problems facing cities and suburbs.

URP 5426 Emergency Management and Planning (3). This course focuses on the concepts, processes, and techniques associated with developing and implementing emergency management plans in public, nonprofit, and health organizations.

URP 6315 Introduction to Urban Planning and Growth Management (3). An historic overview of land use planning and the rise of growth management with emphasis on implementation in complex market and political environments.

URS 5645 Strategic Planning in Public and Non-Profit Organizations (3). This course exposes students to the concepts associated with strategic planning of public and nonprofit organizations and provides them with practical experience in their use.

URS 5647 Continuous Quality Improvement (3). This course provides an in-depth exposure to the concepts, principles, and techniques associated with continuous quality improvement (CQI) applied to public, nonprofit, and health organizations.

URS 6806 Applied Research and Evaluation Techniques (3). Theories and concepts of research and evaluation. Specific focus given to action components of the research process: design and formulation, strategies and methodological tools for conducting research. Discussion of the role of research in administrative decisions and in testing ways to implement public policy. A review of contemporary critiques on research design. Prerequisite: PAD 6701.

URS 6930 Special Topics in Urban and Regional Studies (3). Selected topics receiving current attention by leading scholars in the emerging urban and regional studies discipline.

URS 7031 Information and Telecommunications Design and Policy (3). The managerial and public policy implications of innovations in the 'information super highway'; establishment of intra and interorganization capacity for dealing with continued development in the field. Prerequisites: Ph.D. status or permission of the instructor.

URS 7156 Research Practicum (3-6). An integrative studio course intended to produce a defensible dissertation prospectus and significant empirical research project; may be repeated for credit. Prerequisites: Completion of Ph.D. tool requirement, and URS 7157.

URS 7157 Applied Research Methods (3). Extensive exploration of designs utilized in contemporary social and policy science research with emphasis on triangulated models. Prerequisites: Completion of tools requirement in program of studies or permission of the instructor.

URS 7379 Leadership Development and Decision-Making (3). Leadership as the focal point for organizational development, resource allocation, and 'fit' within the environment; emphasis on effective leadership in the public, health, and nonprofit sectors. Prerequisites: Ph.D. status or permission of the instructor.

URS 7380 Contemporary Management Issues and Problems (3). A proseminar on workplace issues such as AIDS, the Americans with Disability act, and 'the Glass Ceiling'. Special emphasis on diversity and increased utilization of contractual employees. Prerequisites: Ph.D. status or permission of the instructor.

URS 7644 Managing Public Financial Resources (3). An integrative seminar treating taxation, public budgeting, debt management, and evaluation, in the context of a globally competitive economy. Prerequisites: Ph.D. status or permission of the instructor.

URS 7655 Evaluating Organizational and Program Performance (3). Methodology and conceptual frameworks needed to augment organizational effectiveness while enhancing the accountability of public, health, and nonprofit organizations. Prerequisites: Ph.D. or permission of the instructor.

URS 7926 Supervised Readings (3). Extensive reading and review in area of concentration taken in preparation for comprehensive examinations; supervised by Chair of Program Advisory Committee, may be repeated for credit. Corequisite: URS 7156.

Religious Studies

Erik W. Larson, *Associate Professor and Chairperson*
Iqbal S. Akhtar, *Associate Professor*
Daniel R. Alvarez, *Associate Teaching Professor*
Whitney A. Bauman, *Associate Professor*
Ana Maria Bidegain, *Professor*
Carlos W. Grenier, *Assistant Professor*
Steven Heine, *Professor*
Niurca Marquez, *Assistant Teaching Professor*
Tudor V. Parfitt, *President Yitzhak Navon Professor of Sephardic-Mizrahi Studies*
Chaitanya Pragiya, *Visiting Assistant Teaching Professor*
Jeanette Smith, *Visiting Assistant Teaching Professor and Undergraduate Program Director*
Oren B. Stier, *Professor*
Erin L. Weston, *Associate Teaching Professor*
Albert Kafui Wuaku, *Associate Professor and Graduate Program Director*

Affiliated Faculty
Thomas A. Breslin, *Department of Politics and International Relations*
Kenton Harris, *Department of Philosophy*
Mohiaddin Mesbahi, *Department of Politics and International Relations*
Dennis W. Wiedman, *Department of Global and Sociocultural Studies*

Master of Arts in Religious Studies

FIU's Master of Arts in Religious Studies is designed to give students maximum flexibility in pursuing their research interests, while providing a firm foundation in both the general academic study of religion and the student's area of specialization.

The M.A. is a 36-credit hour program: 9 hours of core seminars, 12 hours of 'track' courses, and either 9 hours of electives and 6 hours of thesis work, or 15 hours of electives.

Requirements for Admission

Application to the Master of Arts program in Religious Studies is made through FIU's Graduate Admissions Office. The usual minimum requirements for admission include a baccalaureate degree from an accredited college or university and:

1. A graduate degree in the humanities or social sciences from an accredited college or university
   or
2. A score of 156 or higher on the verbal portion of the Graduate Record Examination (GRE)
   or
3. A UG 60 GPA of 3.25

A student who does not meet any of these three requirements may qualify for admission with a UG 60 GPA of 3.0 and either:

   a. A GPA of at least 3.0 in 9 or more hours of graduate study in departmental courses (as a special student, excluding Independent Study courses)
      or
   b. A score of at least 152 on the verbal portion of the GRE.

4. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.

Applications for admission are available from the FIU Office of Graduate Admissions and are evaluated by the Departmental Graduate Studies Committee.

Degree Requirements

1. Prerequisite: undergraduate course REL 3308, Studies in World Religions, to be completed by the end of the first semester of graduate work.
2. Three core seminars: RLG 6935 "Seminar on Sacred Texts", RLG 6013 "Modern Analysis of Religion", and RLG 5038 "Advanced Fieldwork in Religious Studies".
3. A track of four related courses chosen in consultation with the Graduate Program Director.
4. *Either* 9 hours of elective courses and a thesis (involving either 6 hours of thesis credit or 3 of thesis and 3 of independent research), or 15 hours of electives and no thesis. Students must register with the Department's Graduate Committee for thesis track or non-thesis track during the semester in which they will complete 12 hours of credit in the program. Registration in the thesis track will require securing the agreement of a member of the Graduate Faculty to serve as Thesis Advisor.

All courses must be completed with a grade of "B" or above. The Department of Religious Studies does not regard the non-thesis track as appropriate preparation for further graduate study in Religious Studies.

Combined BA/MA in Religious Studies Degree Pathway

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree pathway. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

Admission Requirements

1. Current enrollment in the Bachelor's Degree program in Religious Studies, or any humanities major that allows at least 12 hours of electives.
2. Current GPA must be 3.4 or higher.
3. Two letters of recommendation.
4. Approval of the Graduate Committee.
5. Submission of acceptable writing sample, complete with bibliography, to Turnitin.com.

Requirements

Completed BA at FIU including,

REL 4931	Religious Studies Seminar
	or
REL 4030	Methods in the Study of Religion

At least two of the following three core courses:

RLG 5038	Advanced Fieldwork in Religious Studies
RLG 6935	Seminar in Sacred Texts
RLG 6013	Modern Analysis of Religion

Three or six additional hours of graduate credit in Religious Studies (for majors, graduate level enrollment in three or six hours of Focus Courses) must also be taken as Graduate courses. The total number of graduate hours taken concurrently with the BA should be 12 credit hours.

Required for the MA:

The remaining core course (if not already taken).

- A four course track, either in one religious tradition, or one theme across religious traditions, approved by the Graduate Director.
- Six credits of electives selected from the Religious Studies Graduate Course Offerings.
- Six hours of thesis, or six additional hours from the Religious Studies Graduate Course Offerings.

Combined M.A. in Religious Studies/Ph.D. in International Relations Degree Pathway

The combined M.A. in Religious Studies/Ph.D. in International Relations pathway allows qualified graduate students to pursue both degrees simultaneously. Students must fulfill the requirements for both programs, and up to 36 credits completed as part of the M.A. in Religious Studies will be counted toward the 75 credit Ph.D. in International Relations.

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission.

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores;
4. Minimum 156 GRE verbal score or a minimum 3.5 on a 4.0 scale (or equivalent) for the last two years of undergraduate work.
5. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 90 on the internet-based TOEFL (equivalent to 575 on the paper-based version) or 6.5 overall on the IELTS is required.

Although admissions decisions typically are made in the spring, decisions for students who have not yet received their bachelor's degree will be conditional, pending confirmation of the B.A. Meeting the minimum requirements does not guarantee admission into the program. All applications are subject to review by the members of the Department of Politics and International Relations and the Religious Studies Department.

Admission Procedures

To be accepted into this pathway, students must submit an application to the Ph.D. in International Relations with a sub-plan for a M.A. in Religious Studies. This designation will appear in the menu of programs in the graduate application. The application must be submitted by January 15 in the year in which they wish to begin their studies.

The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the on-line application:

1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable;
5. A statement of research interests, including reasons for seeking the M.A./Ph.D., future career goals, and a summary of scholarly preparation for this pathway;
6. Three letters of reference from academic sources or others able to judge academic abilities and potential; and
7. A curriculum vitae.

Masters of Arts in Religious Studies Degree Requirements (36 credits)

RLG 6935	Seminar in Sacred Sources	3
RLG 6013	Modern Analysis of Religion	3
RLG 5038	Advanced Fieldwork in Religious Studies	3
12 credit hours of electives approved by the Graduate Program Director		12
RLG 6971	Thesis *or 6 additional hours of elective credits*	6
INR 5615	Research Design in International Relations	3
INR 5609	Contemporary Dynamics of International Relations	3
INR 6706	Political Economy of International Relations	3

Students who choose the thesis exit option must include at least one Politics and International Relations faculty member, though the majority must be from Religious Studies.

Doctor of Philosophy in International Relations Degree Requirements

Students will begin study towards the Ph.D. in International Relations immediately following their satisfactory completion of M.A. in Religious Studies requirements. A minimum of 39 credits beyond the M.A. degree in Religious Studies will be necessary to satisfy the requirements of the Ph.D. Program in International Relations.

Degree Requirements beyond the M.A. in Religious Studies are the following:

9 Core Course credits:

GEO 6473	Space, Place and Identity	3
INR 6604	International Relations Theory I	3
INR 6608	Contemporary International Relations	

Theory	3

12 Major Field credits in either:
1. Global Institutions and Issues,
2. Comparative Area Studies,
3. Foreign Policy and Security Studies, or
4. International Law.

With advisor approval, these may include 3 credits taken in satisfaction of the requirements for the M.A. in Religious Studies.

9 Minor Field credits in either:
1. a second field from the above major field list, or
2. a field offered within another Ph.D. program at FIU (with approval of the Graduate Program Director), or
3. a petition field (with approval of the Graduate Program Director).

With advisor approval, these may include 3 credits taken in satisfaction of the requirements for the M.A. in Religious Studies.

Elective Credits:
Elective credits necessary to bring total credits earned beyond the M.A. in Religious Studies to a minimum of 24.

Dissertation Credits:
15 credits of dissertation research.

Comprehensive Exams

After completing 60 hours of course work (or in the semester in which they expect to do so), students may take their written comprehensive examinations on the core sequence and in both of their fields. Students must sit for these examinations within 6 months of completing the minimum 60 hours of coursework unless granted an extension by the International Relations Graduate Program Director. Before advancing to candidacy, students must also demonstrate an ability to use a foreign language other than English for scholarly purposes.

Dissertation

Within 3 months of passing the comprehensive examinations, students should publicly present a dissertation proposal that is acceptable to a committee of at least four qualified scholars. Three members of the committee, including the dissertation supervisor, must be graduate faculty members of the Department of Politics and International Relations. One must be from outside the department, but inside FIU. Other members must be approved by the International Relations Graduate Program Director. To complete program requirements, Ph.D. degree candidates must enroll for a minimum of 15 dissertation credits and maintain enrollment for 3 credits every semester until the degree is awarded.

Combined M.A. in Religious Studies/Ph.D. in Global and Sociocultural Studies Degree Pathway

The combined Religious Studies M.A./Global and Sociocultural Studies Ph.D. pathway allows qualified graduate students to pursue both degrees at the same time. Students can develop an expertise in Religious Studies while progressing towards a Ph.D in one of the three majors in the Global and Sociocultural Studies Ph.D. geography, sociology, or anthropology. The dissertation may be directed by a qualified professor in either department

Admission Requirements

Applicants must meet the following minimum requirements to be considered for admission
1. Baccalaureate degree from an accredited institution for higher education (or equivalent)
2. Minimum cumulative grade point average of 3.2 on a 4.0 scale (or equivalent) for the last two years of undergraduate work and/or a GPA of 3.5 on any previous graduate work;
3. Official Graduate Record Exam (GRE) scores,
4. International graduate student applicants whose native language is not English and who have not obtained a degree from an English-speaking academic institution are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the internet based TOEFL (equivalent to 550 on the paper-based version) or a 6.5 overall on the IELTS is required.

Admission Procedures

To be accepted into this pathway, students must submit an application to the Ph.D. in Global and Sociocultural Studies with a sub-plan for a M.A. in Religious Studies. This designation will appear in the menu of programs in the graduate application. To be accepted into this pathway, students must submit an application by March 1 in the year in which they wish to begin their studies.
The following documents must be submitted and will be reviewed by the Admissions Committees from both units.

The following must be submitted as part of the on-line application:
1. Online application and application fee;
2. Official transcripts for all undergraduate and graduate coursework;
3. Official GRE scores;
4. Official TOEFL scores, if applicable;
5. Statement of purpose explaining their interest for enrolling in both the M.A. Religious Studies program in the Department of Religious Studies and in the Ph.D. program in GSS. The statement of purpose must clearly address the applicant's academic and professional objectives for enrolling in both fields of inquiry. The statement of purpose must also indicate the intended major (anthropology, geography, or sociology) the applicant plans to select while engaged in the Ph.D. in GSS;
6. Three letters of recommendation from university professors who are able to comment on the various aspects of the student's academic ability;
7. A curriculum vitae; and
8. Writing samples and other relevant professional work that may support their applications

Degree Requirements for M.A. in Religious Studies

The 36 credits earned for the M.A. in Religious Studies will count towards the 75 credits required for the Ph.D. in GSS.

Religious Studies Core (9 credits)

RLG 6935	Seminar in Sacred Sources	3

RLG 6013	Modern Analysis of Religion	3
RLG 5038	Advanced Fieldwork in Religious Studies	3

Courses Required for GSS Track (12 credits)

ISS 6346	Theory and Inquiry (Fall)
ISS 6306	Writing Research Proposals (Spring)
ISS 6305	Research Methods and Design (Spring)
ISS 6317	Social Research Quantitative Methods I (Fall)

Electives (9 or 12 credits depending on exit option)
9 or 12 credits or elective courses from within the Department of Religious Studies Department

Religious Studies MA Exit Options (6 or 3 credits)
Students may choose any of the exit options offered by the Religious Studies degree.

RLG 6971 Thesis (minimum 6 credits) See the Religious Studies program description for more information. The thesis is publicly defended and approved by a committee of three graduate faculty members

RLG XXXX (3 credits) Preparation of two directed research papers. Both papers require an oral presentation, defense and approval by a committee of three graduate faculty members;

RLG XXXX Internship and major research paper (3 credits). Supervised internship leading to a major research paper based upon the students work during the internship. The research paper requires an oral presentation and approval by a committee of three graduate faculty members.

SIPA Language Requirement
Students must demonstrate proficiency in a language other than English according to the nature of their thesis or research paper/proposal and professional interests.

Application for Graduation from Religious Studies program
Students should apply for graduation for the Religious Studies degree as soon as they have completed all requirements for the degree – including the exit option. Ordinarily, the M.A. will be conferred before the student advances to candidacy for the Ph.D. in GSS.

Matriculation to Ph.D. in GSS
All students must undergo a successful M.A. review upon completion of the Religious Studies Program requirements in order to continue toward the Ph.D. in GSS. The GSS Graduate Committee, along with an appointee from Religious Department conducts these reviews. The purpose of the M.A. review is to determine the ability of the student to do Ph.D. level work with the department's faculty. Among the information considered during the review are a students overall performance, grades in courses, and faculty recommendations.

Degree Requirements for Ph.D. in Global and Sociocultural Studies
The doctorate in Global and Sociocultural Studies requires a minimum of 75 credits beyond the baccalaureate including a dissertation based on original research. A maximum of 36 credits of the Religious Studies Master program will count toward the 75-credit minimum. Thus, a minimum of 39 credits must be earned beyond the M.A.

Major Requirements (33 credits)
All doctoral students will choose a major in Anthropology, Geography, or Sociology. The following distribution of coursework is required.

(a) Major theory (3)
(b) Additional methods (3)
(c) Major course electives (6 minimum)
(d) Exam and dissertation credits
  a. Doctoral Exam Preparation (6 maximum)
  b. Doctoral Dissertation (15 minimum)

General Electives (6 credits)
GSS and non-GSS Department electives

Ph.D. General Examination
After successfully completing the common core requirements, the major's course requirements, and electives, a student prepares for the Ph.D. General Exam by enrolling in a maximum of six credits of exam preparation for their major. In preparation for the exam, a student forms a dissertation committee according to the regulations published on the University Graduate School web page (http://gradschool.fiu.edu). The Ph.D. General Exam addresses the student's anticipated dissertation topic, and is conducted according to the University Graduate School Policies and Procedures Manual and the Department's Ph.D., General Exam guidelines.

The Dissertation Proposal and Defense/Candidacy Exam
After passing the Ph.D. General Exam, a student works under the guidance of the dissertation committee to prepare a dissertation proposal and defend it orally before the committee. The chair of the dissertation committee must hold Dissertation Advisor Status from the University Graduate School. The proposal defense serves as the doctoral candidacy exam for the Ph.D. program in Global and Sociocultural Studies. Upon passing the proposal defense, a student is admitted to candidacy status.

The Dissertation and Dissertation Defense
After successfully defending a dissertation proposal, a student conducts the proposed research and completes a dissertation under the guidance of a dissertation committee. Only after successfully defending the dissertation proposal may a student register for dissertation hours (ANG 7980, GEO 7980, or SYA 7980). The Ph.D. program requires a student to be continuously enrolled in a minimum of 3 hours of Doctoral Dissertation each semester from the time of advancement to candidacy until the completion of the dissertation, including summers. Upon completion of the dissertation manuscript and authorization by the committee, a student defends the dissertation before the committee and the University community. The University Graduate School's regulations governing the dissertation are described at http://gradschool.fiu.edu.

Course Descriptions

Definition of Prefixes

ASN-Asian Studies; RLG-Religion Graduate; SRK-Sanskrit Language

ASN 5120 Religion and Society in Japan (3). Examines the relation between religion and the state, the growth of new religious movements, the role of religion during times

of war and conflict, issues of religious freedom and legality, the impact of religious institutions on gender and ethnicity.

ASN 5130 Zen and the Arts (3). Examines the history, theory, and practice of Chado (Way of Tea), a Zen inspired art that has had, and still exerts, a long-lasting influence on Japanese society.

RLG 5018 Religion, Literature, and Critical Theory (3). Examines intersections between world religions and contemporary literature in light of modern theories of interpretation. Themes explored include scriptural rereadings and spiritual journeys. Prerequisites: Graduate standing or permission of the instructor.

RLG 5023 Religious Ritual (3). Examines the critical relationship of ritual, religious practice and belief, and culture, while introducing the principles and methods of ritual studies. Prerequisites: Graduate standing or permission of the instructor.

RLG 5025 Myth and Religion (3). Investigates the role, function, and meaning of myth in religious experience and practice through an examination of specific myths, mythic patterns, and critical theories. Prerequisites: Graduate standing or permission of the instructor.

RLG 5038 Advanced Fieldwork in Religious Studies (3). Techniques of ethnography used in Religious Studies beginning with research design and including participant observation, interviews, surveys.

RLG 5065 Latinas and Religion in the Americas (3). This course will review the practices, beliefs, social and political activism, and theological and biblical reflections of Latinas in the Americas from a historical perspective to modern day.

RLG 5106 Religions, Latino/as and Immigration (3). The course will analyze the relationships between the complex phenomenon of Latinos/as immigration and religions. This area of study necessarily demands an interdisciplinary approach including gender.

RLG 5122 African-American Religion (3). Survey of development of African-American Religions with emphasis on North American experience during slavery, Jim Crow and contemporary eras. Prerequisites: Graduate standing or permission of the instructor.

RLG 5125 Religion and Public Life (3). Examines the relationship of religion and government in the United States, with focus on the First Amendment and issues of separation of church and state. Prerequisites: Graduate standing or permission of the instructor.

RLG 5137 North American Religion (3). Historical examination of religious groups and influences in North America, focusing on their contributions and cultural impact. Prerequisites: Graduate standing or permission of the instructor.

RLG 5138 Sects, Cults, and New Religions (3). Explores and critically analyzes the multiplicity of new American religious movements and the unique combination of factors that has encouraged them. Prerequisites: Graduate standing or permission of the instructor.

RLG 5144 Women and Religion (3). Examines the influence of religion on social construction of gender and the definition of woman's nature and role, with a focus on Western developments. Prerequisites: Graduate standing or permission of the instructor.

RLG 5149 Religion, Violence, and Conflict (3). Is religion peaceful or violent? Theoretical analysis of the role of religion in violent, social and political conflicts, such as the Crusades, the Arab-Israeli conflict, and the Haitian Revolution. Prerequisites: Graduate standing or permission of the instructor.

RLG 5165 Science and Religion (3). Surveys the interaction between science and religion from conflict models to integration; special attention to specific natural sciences including cosmology and biology. Prerequisites: Graduate standing or permission of the instructor.

RLG 5182 Religion and Ethics (3). Investigation of methods, resources for ethics in world religions, and some examples of issues. Prerequisites: Graduate standing or permission of the instructor.

RLG 5183 Religion, Nature, and Globalization (3). Through exploring sources for contemporary attitudes and values about "nature", this course examines environmental ethical issues surrounding the process commonly referred to as globalization. Prerequisites: Graduate standing or permission of the instructor.

RLG 5184 Sexuality, Religion and Social Change (3). Traces various religions' accommodation to and rejection of both new scientific research on sexuality and new economic and social trends. Prerequisites: Graduate standing or permission of the instructor.

RLG 5192 Seminar in Mysticism (3). The issues of consciousness, language, and morality in mystical tradition of the East and west, including Kabbalah, Neoplatonism, Sufism, Yoga, Taoism, and Zen. Prerequisites: Graduate standing or permission of the instructor.

RLG 5193 Brazil: Religion and Liberation (3). To study the genealogy of the Liberation Theology movement in Brazil as Second Vatican Council's resonance. The changes undertaken may be compared to the Reformation of the 16th century.

RLG 5211 Bible I: The Hebrew Scriptures (3). Extensive reading in the Hebrew Scriptures, how the various texts of the Hebrew Scriptures came to be written, and how they can be interpreted - both within the context of faith communities and within the cultural contexts out of which the texts were written. Prerequisites: Graduate standing or permission of the instructor.

RLG 5232 Hebrew Exegesis I (3). Provides a comprehensive survey of the fundamentals of the language of the Hebrew Bible designed to equip the student for the task of exegesis. Prerequisites: Graduate standing or permission of the instructor.

RLG 5233 Hebrew Exegesis II (3). A continuation of Hebrew Exegesis I emphasizing the reading of select passages of the Hebrew Bible to develop skills in translation and interpretation. Prerequisites: RLG 5232 and graduate standing.

RLG 5242 New Testament and Qumran (3). Detailed investigation of the possible contacts between the New Testament and Qumran in such areas as Biblical

Exegesis, Apocalypticism, Eschatology, and Messianism. Prerequisite: Graduate standing.

RLG 5244 Bible II: The New Testament (3). History, theology, and interpretation methods of the New Testament. Prerequisites: Graduate standing or permission of the instructor.

RLG 5262 New Testament Greek Exegesis I (3). A detailed overview of the principles of Greek grammar that shows the student how to use Greek in the study of the New Testament. Prerequisite: Graduate standing.

RLG 5263 New Testament Greek Exegesis II (3). Careful reading of selected passages of the New Testament and early Christian literature designed or selected to develop skills in translation and interpretation. Prerequisite: RLG 5262 and graduate standing.

RLG 5284 Studies of the Dead Sea Scrolls (3). Overview of the Dead Sea Scrolls explores the new techniques being used in their study. Prerequisites: Graduate standing or permission of the instructor.

RLG 5331 Religions of India (3). Topics include: religion in prehistoric and ancient India, classical Hindu texts and schismatic movements, medieval theism, the acculturation of extrinsic religions, Hindu-Muslim-Sikh syncretism, and the modern period. Prerequisites: Graduate standing or permission of the instructor.

RLG 5334 Studies in Diaspora Hinduisms (3). Research methods and theory in the study of Hinduisms in the Diaspora, with a special focus on Hindu institutions in Florida.

RLG 5338 Classical Hinduism (3). A study of the textual and philosophic traditions of classical India, as well as theoretical and methodological issues pertinent to their study. Prerequisites: REL 3330 or REL 3333 or RLG 5331.

RLG 5346 Seminar on Buddhism (3). The central doctrines and rituals of the Buddhist tradition, including the views on causality, mindfulness, monasticism, salvation, purity, and ethics in the Theravada, Tantric, and Zen schools. Prerequisites: Graduate standing or permission of the instructor.

RLG 5352 Religions of East Asia (3). The history, philosophy, and cultural impact of the major religious traditions of East Asia, including Confucianism, Taoism, Buddhism, Shinto, and syncretic folk religions. Prerequisites: Graduate standing or permission of the instructor.

RLG 5360 Classical Arabic (3). Introduces the grammar and vocabulary of classical Arabic necessary for developing the ability to read classical texts.

RLG 5364 Advanced Topics in Islamic Mysticism (Sufism) (3). Explores the depth and breadth of the mystical tradition of Islam (Sufism) through primary and secondary texts which look at the esoteric dimensions of mystical practice in the Islamic World.

RLG 5366 Advanced Interpretation of the Quran: Gender and Jihad (3). History, interpretation and translation of the Quran through a close examination of passages related to issues of gender and jihad.

RLG 5369 Voice of the Prophet (3). Familiarizes students with the position and history of prophetic traditions (Hadith) in Islam.

RLG 5372 The Globalizing of African Spirituality (3). Intensive investigation of select forms of traditional spirituality in sub-Saharan Africa, including ritual, sacrifice, and spirit possession, and Africanized Christian and Islamic devotion. Prerequisites: Graduate standing or permission of the instructor.

RLG 5384 Rasta, Vodou, Santeria (3). Critical, sociological and phenomenological analysis of the history, beliefs, rituals, and social significance of Rastafarianism, Vodou, and Santeria on the Caribbean and the United States. Prerequisites: Graduate standing or permission of the instructor.

RLG 5385 Native American Religions (3). An advanced study of Native American religions and the methods employed to investigate them. Attention will be given to traditional and contemporary expressions. Prerequisites: Graduate standing or permission of the instructor.

RLG 5387 Native Religions of Latin America (3). Focuses on major culture areas, history of tribes, changes in religious practice through contact with Christianity.

RLG 5388 Latinas' Religious Experience (3). Focus on the diversity of religious experiences among women born and educated in Latin cultures such as: Brazil, Haiti and Hispanic American, including Hispanic in the U.S.

RLG 5394 Jewish Mystical Texts (3). A study of the major movements and figures in the development of Jewish mysticism through its significant texts, from biblical times up to the present. Prerequisites: Graduate standing or permission of the instructor.

RLG 5397 Yoga Theory and Practicum (3). An in-depth graduate seminar addressing theory and practice of the eight limbs of yoga. Includes critical analysis of Patanjali's text, the Yoga Sutras.

RLG 5435 Feminist Theory and Religion (3). Surveys the development of feminist work in religion based in general feminist theory; includes work in major world religions. Prerequisite: Graduate standing.

RLG 5455 Seminar on Jain Sacred Sources (3). In depth study of selected primary texts of Jainism, examining diverse scriptures, including prose, verse, philosophical conversations, and narrative stories of different Jain sects. Basic knowledge of Jainism necessary.

RLG 5462 Religion and Philosophy (3). Examines the use of philosophical reasoning to justify religious belief or its rejection. Such topics as natural theology, atheism and fideism will be examined. Prerequisites: Graduate standing or permission of the instructor.

RLG 5465 Karma and Ethics in Indian Philosophy and Religion (3). Comparative examination of theories of karma and their relation to doctrines of ethical conduct and salvation in Indian religious and philosophical traditions. Comparison with Western ethics systems.

RLG 5488 Theology and Liberation Movements (3). Comparison of Latin American, feminist, and African American theologies of liberation, including methods, social analysis, social location, interlocutor, ecclesiology,

theology, eschatology and use of scripture. Prerequisites: Graduate standing or permission of the instructor.

RLG 5495 Interreligious Dialogue (3). The intellectual basis, the classical formulations, and the contemporary practice of interreligious dialogue in a variety of cultural settings. Prerequisites: Graduate standing or permission of the instructor.

RLG 5501 History of Christianity I (3). Christianity from its origins to the Middle Ages. Doctrinal and organizational development of the church and characteristic aspects of its spiritual life. Prerequisites: Graduate standing or permission of the instructor.

RLG 5502 Saints, Witches and Missionaries (3). Survey of movements, reforms, divisions, and major ideas within institutional Christianity, 1400 to present. Prerequisites: Graduate standing or permission of the instructor.

RLG 5515 History of Early Christianity (3). Origin and growth of Christianity from the first to the fifth century, and the adaptation of its message to the Greco-Roman world. Prerequisites: Graduate standing or permission of the instructor.

RLG 5520 Colonialism, Christianity, Globalization (3). It analyzes the European expansion since the 15th to the 20th centuries and the interrelation between religion, economic and politics in western and colonial societies.

RLG 5565 Modern Catholicism (3). Theology and liturgical practice in the Roman Catholic Church from Trent (16th c) to the present, with primary and secondary sources. Prerequisites: Graduate standing or permission of the instructor.

RLG 5605 Studies in Judaism (3). Historical overview of Jewish belief and practice, with special consideration of Jewish ritual life. Prerequisites: Graduate standing or permission of the instructor.

RLG 5606 Rabbinic Judaism (3). The theology and ideologies of the 1700-year period in the history of Judaism known as Rabbinic Judaism. Prerequisites: Graduate standing or permission of the instructor.

RLG 5613 Religion, Culture and Politics in Israel (3). Exploration of the history of modern Israel. Discussion of issues, state and religion, ethnic and denominational tensions, democratic characters of the state and the Israeli-Palestinian conflict.

RLG 5614 Ancient Judaism (3). The history, literature and characteristic institutions of Judaism from the Persian period to Amoraic times. Attention given to developments in the land of Israel and the diaspora. Prerequisites: Graduate standing or permission of the instructor.

RLG 5615 Medieval Judaism (3). The works of major thinkers in Medieval Judaism, including Maimonides, Nahmanides, Halevi, Luzatto, and such topics as Jewish mysticism (Kabalah) and Hasidism. Prerequisites: Graduate standing or permission of the instructor.

RLG 5617 Jews and Muslims in the Middle Ages (3). Study of Jewish culture from the rise of Islam in the 7th century -- usually considered the start of Jewish Medieval Era -- to the end of the Middle Ages.

RLG 5618 Modern Judaism (3). Explores the ways in which religious beliefs and traditional concepts of Jewish self-identity have changed as a result of emancipation and participation of Jews in the modern Western world. Prerequisites: Graduate standing or permission of the instructor.

RLG 5619 Holocaust Representations: Religion and Remembrance (3). Examines the symbolic and cultural representations of the Holocaust through its religious/theological discourse and its remembrance. Implications for Jewish life and thought are also explored. Prerequisites: Graduate standing or permission of the instructor.

RLG 5620 Kabbalah and Gender (3). Exploration of the theme of Gender within the context of Jewish mysticism. Analysis of central Kabbalistic texts pertaining to the issue of gender and sexuality.

RLG 5628 Jewish Thought and Thinkers (3). The principal of Sephardic and oriental thinkers since the Middle Ages includes philosophers, rabbinics.

RLG 5629 Kabbalah, Peace and War (3). Study of the basic categories of Kabbalah as an esoteric doctrine and evaluate its unique approach to peace and war within the historical context of the Jewish mystical experience.

RLG 5698 Sephardic and Oriental Jewry Colloquium (3). In depth examination of important issues in the study of Sephardic and Oriental Jewry.

RLG 5907 Independent Study in Sephardic and Oriental Jewry (1-6). For advanced students who possess proven significant knowledge of the field of Sephardic and Oriental Jewry, to engage in a guided research on the topic of their choice within the field. Prerequisites: REL 4610, RLG 5617, REL 3695, SYD 4606.

RLG 5911 Independent Research (1-5). Topics are selected to meet the academic needs of the individual student. Prerequisites: Permission of the instructor is required.

RLG 5932 Sacred Image, Sacred Space in Indian Religions (3). Seminar on sacred images and architecture of South Asian religions-Hindu, Jain, Buddhist, and Muslim. Connects visual culture and devotional practices.

RLG 5934 Graduate Pedagogy (1-3). Advanced work in Religious Studies pedagogy, including classroom teaching, assignment development and grading, and seminar discussion of pedagogical issues.

RLG 5937 Special Topics (3). Topics will be selected to meet the academic needs of groups of students.

RLG 5945 Internship in Sephardic and Oriental Jewry (1-3). Work and study with the leadership of and research one of the Sephardic and Oriental communities in Florida. This serves as field study in which the classroom learning comes alive. Prerequisites: REL 4610, RLG 5617, REL 3695, SYD 4606.

RLG 6013 Modern Analysis of Religion: Classic Texts in Religious Studies (3). Surveys history of religious approaches to religion (Eliade, Otto), social scientific approaches to religion (Freud, Durkheim, Weber, Geertz), and postmodern / poststructuralist approaches (Foucault, de Certeau, Baumann, Braudillard, Butler etc.). Prerequisites: Graduate standing or permission of the instructor.

RLG 6094 Seminar in Religious Fundamentalism (3). Evolution of Fundamentalism from inception to our times as it began to encompass a wider umbrella of global organizations with a focus on the 3 Abrahamic traditions and advanced analysis of their texts.

RLG 6096 Advanced Religious Fundamentalism: A Viewpoint for National Security (3). Evolution of Fundamentalism from inception to our time as it began to encompass a wider umbrella of global organizations with a focus on the 3 Abrahamic traditions and advanced analysis of their texts.

RLG 6097 Muslim Concepts of War: A Perspective for National Security (3). Intended to acquaint students with the history and development of Muslim concepts of war prepare them to make meaningful contributions to policy deliberations.

RLG 6175 Ethics and Development (3). Examines problems in development programs, such as bribery and corruption, labor rights, child labor, gender justice, environmental sustainability, from both religious and secular justice traditions.

RLG 6176 Religions and Human Rights (3). Examines sources of human rights theory in the West and compares it to a variety of religious conceptions of the rights of human beings.

RLG 6195 Sociological Approaches to Religion (3). Sociological Method/Theory in religious studies scholarship on religious ritual around life cycle events. Individual and group projects. Prerequisites: Graduate standing or permission of the instructor.

RLG 6285 Biblical Archaeology (3). Introduces the methods used in archaeological excavations. Finds from the Bronze Age to the Greco-Roman period are examined for the ways they bring new understanding to the texts of the Bible. Prerequisites: Graduate standing or permission of the instructor.

RLG 6319 Seminar in Asian Religions (3). Asian religious traditions, texts, rituals, or artifacts. May be repeated with change in content. Prerequisites: Graduate standing or permission of the instructor.

RLG 6322 Seminar in Western Religions (3). Similarities and differences in the three Western monotheistic religions of Judaism, Christianity and Islam during their historical development. Prerequisites: Graduate standing or permission of the instructor.

RLG 6332 Studies in Modern Hinduisms (3). Research methods and theory in the study of modern Hindu movements and issues in contemporary Hinduism.

RLG 6348 Seminar on Tibetan Buddhism (3). Study of influential Tibetan texts in their historical contexts. Prerequisites: REL 4340 or REL 3344 or equivalent or permission of instructor.

RLG 6349 Seminar on Pali Buddhism (3). The “original” teachings of the Buddha as preserved in the Pali Tipitaka and its commentaries readings in translation. Students knowing Pali will work with instructor. Prerequisites: REL 4340 or equivalent or permission of instructor.

RLG 6442 Religion in the Contemporary World (3). Society and religion in processes of secularization and pluralism. Attention to religious interpretations of sociocultural processes. Prerequisites: Graduate standing or permission of the instructor.

RLG 6697 Indian Judaism (3). The stories, rituals, interactions and identities of four Indian Jewish communities and their implications for Indo-Israeli relations and contemporary American Judaism. Prerequisite: Graduate standing.

RLG 6921 Colloquium (1). Students attend a minimum of three lectures, conferences, or professional presentations, with seminar report and discussion. May be repeated. Prerequisite: Graduate standing.

RLG 6930 Pedagogy Workshop (1). Two-day teaching workshop offered by the Academy for the Art of Teaching. Prerequisite: Graduate standing.

RLG 6931 Pedagogy Seminar (1). Provide Teaching Assistants with pedagogical skills, such as lecture preparation, exam preparation and grading, advising and small group work. Prerequisite: Graduate standing.

RLG 6935 Seminar in Sacred Texts (3). Sacred texts with a common theme from several religions. Problems of interpretation are a central concern. Prerequisites: Graduate standing or permission of the instructor.

RLG 6938 Pedagogy Forum (1). Students attend at least six (6) teaching forums for certificate offered by the Academy for the Art of Teaching. Prerequisite: AAT Summer Teaching Workshop.

RLG 6940 Teaching Religious Studies (3). Assist the instructor in an introductory course and attend seminar meetings. Topics: ‘faith’ vs ‘objectivity’ in the classroom; student diversity; religious studies as a profession; designing an introductory course. Prerequisites: Graduate standing or permission of the instructor.

RLG 6942 Teaching Internship (1-3). Advanced work in Religions Studies pedagogy, including classroom teaching, assignment development and grading, and seminar discussion of pedagogical issues. Prerequisite: Graduate standing.

RLG 6946 Advanced Field Work in Jain Studies (3). Supervised field work among Jain communities and institutions in India and in the Jain Diaspora. Prerequisites: Graduate standing, IRB project clearance, CU.

RLG 6971 Thesis (1-6). For students working on the thesis for the M.A. in Religious Studies. Prerequisites: Graduate standing and permission of the instructor.

RLG 6972 Thesis Proposal Development (3). Elements of thesis construction, including thesis statement, feasibility research, bibliography, methodology. Initial 3 credits of thesis may be required for some students by GPD and thesis advisor. Prerequisite: Permission of instructor.

SRK 5001 Sanskrit Exegesis I (3). Application of both modern and traditional interpretations of selected readings from classical Sanskrit texts. Prerequisites: SRK 2101 or permission of the instructor.

SRK 5002 Sanskrit Exegesis II (3). Reading of extended classical Sanskrit text (such as the Bhagavad Gita) with attention to exegetical methods, philology and advanced

grammar. Prerequisites: SRK 5001 or permission of the instructor.

SRK 5003 Sanskrit III: Reading Epic Sanskrit (3). Sanskrit grammar, its rules of transliteration and translation. The pronunciation and reading skills will be trained. Prerequisites: SRK 5002 or instructor permission.

SRK 5006 Sanskrit IV: Advanced Sanskrit Reading (3). Introduces techniques to read advanced styles of Sanskrit literature such as court poetry or philosophy. May be repeated with change in emphasis. Prerequisites: SRK 5003 or instructor permission.

SRK 5004 Introduction to the Prakrit Languages (3). Phonology, morphology and grammar of the Prakrit languages with emphasis on building reading competency in Buddhist and Jain literatures. Prerequisites: SRK 3202 or SRK 5202 or permission of the instructor.

SRK 5005 Advanced Prakrit Reading (3). Intensive reading of a text in a selected Prakrit language with emphasis on cultivating advanced reading techniques and the development of a research project. May be repeated with change in content. Prerequisites: SRK 3202 or SRK 5202 and SRK 5004, or permission of the instructor.

SRK 6106 Sanskrit II (3). Sanskrit grammar rules, rules of tense, rules of transliteration and translation.

Certificate Programs

Academic Certificates in:

African and African Diaspora Studies
Afro-Latin American Studies
Asian Globalization
Asian Studies
Conflict Resolution and Consensus Building
European and Eurasian Studies
Homeland Security and Emergency Management
Human Resource Policy and Management
Iberian Studies
Inclusion, Diversity, Equity, Access and Leadership
International and Comparative Public Administration
Japanese Studies
Latin American and Caribbean Studies
Middle East and Muslim World Studies
National Security Studies
Nonprofit and Community Development
Public Finance, Procurement, and Contract Management
Public Management and Civic Leadership
Religious Studies
Urban Policy Innovations

African & African Diaspora Studies Graduate Certificate Program

Faculty:

Iqbal S. Akhtar, *Associate Professor, Religious Studies and International Relations*
Pascale S. Bécel, *Associate Professor and Chairperson, Modern Languages*
Jean-Robert J. Cadély, *Associate Professor, Modern Languages and African & African Diaspora Studies*
Phillip Carter, *Associate Professor, English and Linguistics; Director, Center for the Humanities in an Urban Environment*
John F. Clark, *Professor, Politics and International Relations*
Alexandra Cornelius, *Associate Teaching Professor; Director, Center for Women's and Gender Studies*
Jenna M. Gibbs, *Associate Professor, History*
Percy C. Hintzen, *Professor, Global and Sociocultural Studies*
Tometro Hopkins, *Associate Professor, English*
Keisha McIntyre-McCullough, *Clinical Assistant Professor, Teaching and Learning; English Education Program Leader; MSCI Program Leader*
Assefa Melesse, *Associate Professor, Earth and Environment*
Roderick Paul Neumann, *Professor, Global and Sociocultural Studies*
Ulrich Oslender, *Associate Professor, Global and Sociocultural Studies*
Okezi T. Otovo, *Associate Professor, History and African & African Diaspora Studies;*
Tudor Parfitt, *Research Professor, Religious Studies*
Vrushali B. Patil, *Associate Professor, Global and Sociocultural Studies and Women's and Gender Studies; Chairperson, Global and Sociocultural Studies*
Valerie L. Patterson, *Clinical Professor, Public Administration; Director, African and African Diaspora Studies*
Andrea Queeley, *Associate Professor, African and African Diaspora Studies and Global and Sociocultural Studies; Graduate Program Director, African and African Diaspora Studies*
Jean Muteba Rahier, *Professor, Global and Sociocultural Studies and African and African Diaspora Studies*
David Rifkind, *Associate Professor, Architecture*
Heather Russell, *Professor, English and Vice Provost for Faculty Leadership and Success*
Derrick Scott, *Assistant Teaching Professor, Global and Sociocultural Studies*
Vicky Silvera, *Special Collection, Library*
Chantalle F. Verna, *Associate Professor, History and Politics and International Relations*
Donna Weir-Soley, *Associate Professor, English*
Kirsten E. Wood, *Associate Professor, History*
Albert Kafui Wuaku, *Associate Professor and Graduate Program Director, Religious Studies*

The African & African Diaspora Studies (AADS) Graduate Certificate seeks to provide graduate-level multidisciplinary instruction in the diverse fields of African and African Diaspora Studies. Specifically, the Certificate seeks to provide students with an interdisciplinary approach to the study of the global, economic, cultural, and historical experiences of people of African descent, both in Africa and in the Diaspora. The Certificate complements students' work in their major fields of study. Thanks to the diversity of areas of research interests of the core and affiliate AADS faculty, students may choose courses that will allow them to focus more specifically on either U.S. born African Americans, Continental Africans, or communities of the African diaspora internationally. Students may also choose courses that will bring them to learn about all three or any other combination of these areas. This certificate program is open to degree-seeking students only.

Certificate Requirements: (15 credits)

Required Course

AFA 5005	African and African Diaspora Studies Theory (Offered every fall semester)	3

The 12 remaining credit hours may be drawn from courses in the Humanities and Social Sciences as listed below. Note that students are expected to complete 6 credits from each list. Students should consult with advisors since new courses are frequently added, and special topic courses sometimes concern Africa and the African Diaspora. Students may also select other courses not listed below with approval from the Director of AADS or from the Director of AADS Graduate Programs after submitting the appropriate syllabus. Not all courses are offered every semester.

List I: The Humanities

Students must choose between 6 and 9 credits from the list below:

AFA 5932	Special Topics in African and African Diaspora
AFA 5107	Teaching the African American Experience
AFA 5341	Health Issues in the African World
AFA 6245	The African Diaspora in Latin America
AFH 5905	Readings in African History
AFH 5935	Topics in African History
FRE 5508	La Francophonie
HAI 5235	Haitian Creole Seminar

LIN 6602	Language Contact
LIT 5359	African Diaspora Women Writers
LIT 5358	Black Literature and Literacy/Cultural Theory
MUH 5025	History of Popular Music in the United States
MUH 5067	Music of the Caribbean
RLG 5122	African-American Religion
RLG 5372	The Globalizing of African Spirituality
RLG 5384	Rasta, Vodou, Santeria
RLG 5488	Theology and Liberation Movements
SPN 5536	Afro-Cuban Culture
SPN 5539	Special Topics in Afro-Hispanic Culture
SPW 5776	Black Literature in Latin America
SPW 6368	19th Century Spanish-Caribbean Narrative
WOH 5237	The African Diaspora Since the End Of the Slave Trade
WOH 5236	The Transatlantic Slave Trade and the Making of the African Diaspora, 1441-1807

List II: The Social Sciences

Students must choose between 6 and 9 credits from the list below:

AFA 5600	National and Transnational Policy Analysis: The African Diaspora
AFA 6851	Advanced Seminar in African and African Diaspora Studies
AFA 6217	Sex, Race, and Power in European Colonialisms
SYD 6796	Sex, Race, and Power in Colonial Times
ANG 6473	Diasporas, Migration, and Globalization
ANG 5397	Advanced African Diaspora Cultures and Performativity
ANG 5396	Representations of Africa and Africans in Films
ANT 6319	The African Diaspora: Anthropological Perspectives
CPO 5325	Politics of the Caribbean
CPO 6350	Seminar in Brazilian Politics
CPO 6376	Seminar in Central American Politics
CPO 6206	Seminar in African Politics
CYP 6766	The Psychology of Crosscultural Sensitization in a Multicultural Context
ECS 5406	Latin American Economies
ECS 6436	The Economies of Caribbean Migration
ECS 7435	Economics of the Caribbean
INR 5087	Ethnicity and the Politics of Development
INR 5255	Seminar in African Development
INR 6936	Seminar in Inter-American Politics
SYD 6705	Comparative Analysis of Ethnicity and Race

Graduate Certificate in Afro-Latin American Studies

Coordinating Committee

Ulrich Oslender, *Global & Sociocultural Studies*
Okezi Otovo, *History and African & African Diaspora Studies*
Mark B. Padilla, *Global & Sociocultural Studies*
Andrea Queeley, *Global & Sociocultural Studies and African and African Diaspora Studies*
Jean Muteba Rahier, *Global & Sociocultural Studies and African and African Diaspora Studies*
Vicky Silvera, *Head, Special Collections, Library*

African and African Diaspora Studies (AADS) encompasses the study of, and research on, the peoples of Sub-Saharan Africa and their experiences, and on communities of the African diaspora both in continental Africa and elsewhere in the Americas, Europe, Asia, and Australia. It also involves the dissemination of knowledge about Sub-Saharan continental African peoples and diasporic Africans internationally. Housed within the Steven J. Green School of International and Public Affairs, and more specifically in the African & African Diaspora Studies Program (AADS), the Afro-Latin American Studies Graduate Certificate provides students with an interdisciplinary approach to the study of the global, economic, cultural, and historical experiences of all peoples of African descent in the Latin American region. We understand these communities of the African diaspora in Latin America have encompassing both those communities issued from the Transatlantic slave trade and their descendants, and more recent migration movements. The Certificate complements students' work in their major fields of study at the graduate level while fostering greater understanding of traditionally marginalized topics. Thanks to the diversity of areas of research interests of the core and affiliate AADS faculty, students will be able to choose courses that focus more specifically on Afro-Latin Americans living in both the region and in other geographic areas where Afro-Latin Americans have migrated to.

The Certificate places a strong emphasis on Afro-Latin American cultural expressions in all their national, sub-regional, temporal, and socioeconomic diversities. It offers coordinated insights into the ongoing challenges Afrodescendant communities face locally, nationally, and internationally. It also focuses on the ways in which Afro-Latin American communities and individuals have developed political and creative strategies for survival in the midst of, and resistance to, racism and political, economic, and social oppression. The Certificate will provide numerous opportunities for enrolled students to explore Afro-Latin American populations in economic processes of various kinds, underlining the specific challenges they might face. The Certificate is based on a number of courses that can be combined as described below, and that come from both the social science and humanities. This certificate program is open to degree-seeking students only.

Certificate Requirements (18 credits)

General Requirements

Students complete 18 credit hours of study from disciplines as diverse as geography, history, international relations, journalism, sociology, anthropology, literature, music, and political science. The two required courses (6 credits) should be taken at the start of the Certificate Program. The other 12 credits must come from the elective courses, comprising both Arts and Humanities courses, and Social Sciences courses. The program director may approve other courses upon request. Students requesting an exception from these lists must present a syllabus for the course they would like to enroll in, prior to enrollment. The courses considered for such an

exception should have at least a 35% Afro-Latin American content. Not all courses are offered every semester.

Required Core Courses: (6 credits)

AFA 5005	African and African Diaspora Studies Theory
	and
AFA 6245	The African Diaspora in Latin America

Electives (Arts and Humanities, Social Sciences) Courses: (12 credits)

AFA 5302	Africana Visual Arts
AFA 5600	National and Transnational Policy Analysis: The African Diaspora (with relevant course focus)
AFA 5932	Special Topics in African and African Diaspora Studies (with relevant course focus)
AFA 6325	Pedagogy in the African Diaspora: Literacy, Culture, Race and Gender (with relevant course focus)
AFA 6905	Independent Study (with relevant course focus)
AFA 6911	Research Paper / Proposal Writing in African and African Diaspora Studies (with relevant course focus)
AFA 6920	African and African Diaspora Studies Graduate Colloquium
AFA 6940	Community Project/Internship Research in African and African Diaspora Studies (with relevant course focus)
ANT 6319	The African Diaspora: Anthropological Perspectives
ANG 5396	Representations of Africa and Africans in Films
ANG 5397	Advanced African Diaspora Cultures and Performativity
ANG 6339	Seminar on Latin America (with relevant course focus)
ANG 6472	Anthropology of Globalization (with relevant course focus)
ANG 6473	Diasporas, Migration, and Globalization
ECS 5406	Latin American Economies
LAS 5907	Independent Study (with relevant course focus)
LAH 5905	Readings in Latin American History (with relevant course focus)
LAH 5935	Topics in Latin American History (with relevant course focus)
LAH 6906	Advanced Readings in Latin American History (with relevant course focus)
LAH 6915	Research in Latin American History (with relevant course focus)
LAH 6932	Research Seminar in Latin American History I (with relevant course focus)
LAH 6933	Research Seminar in Latin American History II (with relevant course focus)
RLG 5384	Rasta, Vodou, Santeria
RLG 5488	Theology and Liberation Movements
SPN 5536	Afro-Cuban Culture
SPN 5539	Special Topics in Afro-Hispanic Culture
SPW 5776	Black Literature in Latin America
SPW 6368	19th Century Spanish-Caribbean Narrative
SYD 6626	Cuba Seminar
WOH 5237	The African Diaspora Since the End of the Slave Trade
WOH 5236	The Transatlantic Slave Trade and the Making of African Diaspora, 1441-1807

Graduate Certificate in Asian Globalization

Steven Heine, *Director, Asian Studies*

Coordinating Committee
Oren Stier, *Religious Studies*
Matthew David Marr, *Global and Sociocultural Studies*
Mitzi Carter, *Asian Studies and Global and Sociocultural Studies*
Mohiaddin Mesbahi, *Politics and International Relations*

This certificate program offers a 15-credit sequence of courses that provides graduate students with an in-depth learning experience of an increasingly important region in comparison with another world region such as Africa, Europe, Latin America or the Middle East. The program requires students to take 9 credits of courses in Asian studies in addition to 6 credits of courses in another specific region. This program allows students the opportunity to study thematic issues related to Asia such as migration, identity, trade, education, technology, environment, and international affairs from a multidisciplinary, multiregional approach. This certificate program is open to degree-seeking students only.

Certificate Requirements (15 credits)

Electives in Asian Studies: (9 credits)
Three courses in Asian Studies. Can be ASN or other prefix. See Sample listing of courses below.

Electives in Globalization: (6)
See sample listing of courses below. For additional courses in other world regions inquire with the Department.

Sample Courses in Asian Studies
Courses in studies of Asia or a sub region. Choose from the following list (additional courses will be considered):

ASH 5446	Readings in Japanese History
ASH 5905	Readings in Asian History
ASN 5120	Religion and Society in Japan
ASN 5130	Zen and the Arts
ASN 5131	Zen and the Arts II
ASN 5171	International Relations of Contemporary China
ASN 5211	Asian Cultures and Influences
ASN 5306	Applying Asian Cultural Values in Business
ASN 5605	Silk Road: Then and Now
ASN 5815	Studies of East Asian Texts
ASN 5910	Independent Research in Asian Studies
ASN 5932	Special Topics in Asian Studies
ASN 6930	Seminar in Asian Studies
ECO 5206	Economics of Asia
INR 5544	The New Asian Century
INR 5086	Islam in International Relations
RLG 5346	Seminar on Buddhism
RLG 5352	Religions of East Asia
RLG 6319	Seminar in Asian Religions
SYD 6655	Seminar on Social Change in Asia

Sample of Courses in Globalization

African Studies

AFH 5905	Readings in African History
CPO 6206	Seminar in African Politics
INR 5255	Seminar in African Development
RLG 5372	African Spirituality
ANT 6319	African Diaspora: Anthropological Perspectives

European Studies

ARH 5663	Graduate Art in Spain and Her Colonies
ENG 5220	Major British Literary Figures
ENL 5505	Periods in English Literature
EUH 5905	Readings in European History
EUH 5935	Topics in European History

Latin American Studies

ARH 5671	Seminar in 20th Century Latin American Art
LAH 5905	Readings in Latin American History
LAS 6003	Survey of Latin America
LAS 6017	Intelligence Issues in Latin America
INR 6936	Seminar in Inter-American Politics

Middle Eastern Studies

HIS 5930	Special Topics
CPO 6407	Seminar in Politics of the Middle East
INR 5086	Islam in International Relations
INR 5275	International Relation of the Middle East

In addition to the courses listed above, relevant special topics, independent study, study aboard credits, and area studies or comparative studies may also be applied.

Language

Language proficiency as appropriate for student's area specialization.

For more information, contact the Asian Studies office, SIPA 512. Email: **asian@fiu.edu**; phone: (305) 348-1914; website: **http://asian.fiu.edu**.

Graduate Certificate in Asian Studies

Steven Heine, *Director, Asian Studies*

Coordinating Committee
Matthew David Marr, *Global and Sociocultural Studies*
Jin Zeng, *Politics and International Relations*

The objective is to provide interdisciplinary graduate instruction in international/global studies that requires specialization in Asia or a sub-region such as East, South, Southeast, or Central Asia. The program is geared towards students whose studies emphasize a traditional area studies approach to culture and society. This certificate program is open to degree-seeking students only.

Certificate Requirements: (15 credits)

Five courses in Asian Studies. This can include courses on global or comparative topics that have a significant component on Asia. See sample listing of courses below:

ASH 5446	Readings in Japanese History
ASH 5905	Readings in Asian History
ASN 5120	Religion and Society in Japan
ASN 5130	Zen and the Arts
ASN 5131	Zen and the Arts II
ASN 5171	International Relations of Contemporary China
ASN 5211	Asian Cultures and Influences
ASN 5306	Applying Asian Cultural Values in Business
ASN 5605	Silk Road: Then and Now
ASN 5815	Studies of East Asian Texts
ASN 5910	Independent Research in Asian Studies
ASN 5932	Special Topics in Asian Studies
ASN 6930	Seminar in Asian Studies
ECO 5206	Economics of Asia
INR 5544	The New Asian Century
INR 5086	Islam in International Relations
RLG 5346	Seminar on Buddhism
RLG 5352	Religions of East Asia
RLG 6319	Seminar in Asian Religions
SYD 6655	Seminar on Social Change in Asia

For more information, contact the Asian Studies office, SIPA 512. Email: **asian@fiu.edu**; phone: (305) 348-1914; website: **http://asian.fiu.edu**.

Graduate Certificate in Conflict Resolution and Consensus Building

Judith Bernier, *Director, Center for Labor Research and Studies*

Faculty:
Danay Barata, *Labor Studies*
Nora Femenia, *Labor Studies*
George Gonos, *Labor Studies*
Abdolrahim Javadzadeh, *Labor Studies*
Gleema Nambiar, *Labor Studies*
Raquel Perez, *Communications*

The Conflict Resolution and Consensus Building Certificate offers students at the post-baccalaureate level the opportunity to pursue an interdisciplinary concentration in the study of conflict resolution and to gain an intellectual background in the theories and methodologies of conflict resolution and consensus building. The certificate enhances interdisciplinary connections among Business, Criminology, Education, Human Resource Management, International Relations, Labor Studies, Law, Political Science, Psychology, Public Administration, Sociology, Women's and Gender Studies, and complements studies in other areas. This certificate program is open to both degree- and non-degree seeking students.

Certificate Requirements

Students are required to take 15 credit hours (5 courses) of graduate level course work outlined below.

Two Required Core Courses: (6 credits)

LBS 5465	Mediation Techniques
LBS 5485	Fundamentals of Conflict Resolution

One Course from the list of classes: (3 credits)

LBS 5155	Workplace Diversity
LBS 5215	Women in the Workplace
LBS 5466	Family Mediation
LBS 5467	Civil Mediation
LBS 5486	Dynamics of Conflict Management
LBS 5488	Organizational Conflict and Dispute Resolution Systems
LBS 6945	Internship in Labor Studies/Alternative Dispute Resolution

Two Electives: (6 credits)

The courses should be understood to be a partial list; students should consult with the advisor of the certificate program about current course offerings. Students are required to take courses from a minimum of two departments. Other related courses may be accepted as electives pending approval from the Labor Center Director.

Labor Studies

LBS 5155	Workplace Diversity
LBS 5215	Women in the Workplace
LBS 5406	Collective Bargaining and Labor Relations
LBS 5464	Labor Arbitration
LBS 5466	Family Mediation
LBS 5486	Dynamics of Conflict Management
LBS 5488	Organizational Conflict and Dispute Resolution Systems
LBS 5507	Labor and Employment Law
LBS 5930	Topics in Labor Studies
LBS 5931	Topics in the Philosophy and Methods of Conflict Research **or** an equivalent research course
LBS 6906	Directed Individual Study
LBS 6945	Internship in Labor Studies/Alternative Dispute Resolution

Communication

MMC 6213	Ethics and Social Responsibility
MMC 6402	Theories of Mass Communication
PUR 5476	Communication for Change Management
PUR 6477	Strategic Facilitation
PUR 6607	Global Strategic Communication Management

Education

ADE 5387	Organizational Learning and Human Resource Development
ADE 6180	Organizational and Community Processes in AE/HRD
ADE 6260	Management of AE/HRD Programs
EDA 6225	Labor Relations in Education
EDA 6232	School Law
EDA 7233	Ethics and Educational Leadership
EDF 5880	Intercultural Education: National and International Perspectives
EDF 6365	Cultural Identities and Conflict
EDF 6366	Conflict Resolution: Negotiation-Based Perspectives
EDF 6367	Interactive Conflict Resolution: A Third-Party Perspective
EDF 6658	Selected Topics in International Development Education: Current Policy Issues and Problems
EDG 5707	Cultural and Cross-Cultural Studies
EDH 6055	Access and Choice in Higher Education
EDH 7405	Advanced Seminar on Law and Higher Education
EDS 6050	Supervision and Staff Development

Global and Sociocultural Studies

ANT 6302	Gender Identity in Comparative Perspective
ANT 6319	The African Diaspora
SYD 5447	Sociology of International Development
SYD 6236	International Migration and Refugees
SYD 6325	Seminar in Comparative Sociology of Gender
SYO 6536	Comparative and Global Inequality
SYD 6625	South Florida Socio-Cultural Systems
SYD 6705	Comparative Systems of Ethnicity and Race
SYP 6907	Comparative and Global Social Change

Hospitality

HMG 5547	Leadership Training for Team Building
HMG 6225	Multicultural Human Resources Management for the Hospitality Industry
HMG 6226	Motivation and Leadership
HMG 6246	Organizational Behavior in the Hospitality Industry

International Relations

INR 5007	Seminar in International Politics
INR 5xxx	International Negotiations and Conflict Resolution
INR 5062	War, Peace and Conflict
INR 5086	Islam and International Relations
INR 5087	Ethnicity and the Politics of Development
INR 5105	American Foreign Policy
INR 5275	International Relations of Middle East
INR 5315	Foreign Policy Making
INR 5409	International Relations Law I
INR 5507	International Organizations I
INR 6092	Seminar on Non-State Actors
INR 6089	International Relations and Human Rights
INR 6107	U.S. Foreign Policy: Processes and Institutions
INR 6338	Seminar in Strategic Studies
INR 6606	Political Psychology of International Relations
INR 6705	Seminar in International Political Economy

Management

MAN 6121	Interpersonal Behavior and Analysis
MAN 6209	Organizational Design and Behavior
MAN 6295	Conflict in Organizations
MAN 6405	Labor Relations
MAN 6411	Collective Bargaining Topics
MAN 6601	International Management
MAN 6615	International Labor-Management Relations
MAN 6703	Colloquium In Managing Organizational Ethics

Politics and International Relations

POS 5045	Seminar in American Politics
POS 5146	Seminar in Urban Politics
POS 5326	Seminar in Class Analysis
POS 5932	Topics in Urban Politics

Psychology

CYP 5534	Groups as Agents of Change
CYP 6766	The Psychology of Cross-cultural Sensitization in a Multi-cultural Context
SOP 6752	Psychology of Juries

Public Administration

PAD 5043	Equitable and Inclusive Governance
PAD 5427	Collective Bargaining in the Public Sector
PAD 6028	Policy Analysis and Planning
PAD 6417	Human Resource Policy and Management

PAD 6436	Professionalism and Ethics
PAD 6434	Leadership in Decision Making

Public Health

PHC 6115	International Public Health
PHC 6311	Environmental Health Risk Assessment
PHC 6355	Environmental Health and Safety
PHC 6356	Fundamentals of Industrial Hygiene
PHC 6315	Introduction to Environmental Health Sciences
PHC 6589	Health Promotion in Institutional Settings

Religious Studies

RLG 5149	Religion, Violence and Conflict

Graduate Certificate in European and Eurasian Studies

Tatiana Kostadinova, *Director*

Coordinating Committee
Rebecca Friedman, *History*
Renée Silverman, *Modern Languages*
Oren Stier, *Religious Studies*
Markus Thiel, *Politics and International Relations*
Mira Wilkins, *Economics*

This multidisciplinary certificate brings together faculty expertise and student interest in European and Eurasian Studies. This Certificate is open to our Master's and Doctoral students and requires at least 15 credits of course work on Europe, from at least two disciplines. Certificate students are asked to take a variety of courses with European and Eurasian content from a number of disciplines that reach across the humanities, social sciences and the arts. This Graduate Certificate is designed so that students can demonstrate substantive knowledge about specific aspects of European culture, history, politics, economics and society, as well as demonstrate language competency and gain a broader understanding of Europe, the EU and its relationship to other parts of the globe.

This certificate program is open to degree-seeking students only. The program is ideal for students interested in a broader, multidisciplinary area studies perspective. At 15 credits (5 courses) this program provides both an overview of European history, culture, societies and politics and more nation-specific knowledge and training, as per the interests and goals of our students.

Admission Requirements

1. Baccalaureate degree from an accredited institution for higher education (or equivalent);
2. Minimum cumulative grade point average of 3.0 on a 4.0 scale (or equivalent) for the last two years of undergraduate work.

Prescribed Courses and Other Requirements

Students must take five European-content classes in at least two academic disciplines (different course prefixes). Available courses will be listed on our website www.europe.fiu.edu each semester. All students are to choose from the courses listed below and earn a grade of "B" or better. These courses represent a partial list. Courses not included on the semester lists of approved courses may count toward meeting the requirement of the certificate only with the permission of the certificate director.

Sample Courses in European Studies

Social Sciences:

CPO 6105	Politics of the European Union	3
CPO 6106	Seminar on European Politics	3
CPO 5091	Seminar in Comparative Politics	3
ECO 7617	Seminar in Economic History	3
INR 5507	International Organizations I	3
INR 6010	Global Governance	3

Humanities:

ENL 5220	Major British Literary Figures	3
EUH 5935	Topics in European History: Women & Gender in Europe	3
EUH 5935	Topics in European History: Russian Revolution	3
EUH 5905	Readings in European History: Early Modern Court Societies	3
EUH 5905	Readings in European History: European Historical Film	3
EUH 6932	Research Seminar in European History	3
FRW 5934	Special Topics in Language Literature	3
FRW 5938	Graduate Seminar on French Literature	3
RLG 5515	History of Early Christianity	3
RLG 5619	Holocaust Representations: Religion and Remembrance	3

Once all requirements have been fulfilled and graduation completed, the Graduate Certificate in European and Eurasian Studies will be awarded

For more information, contact the European and Eurasian Studies office, SIPA 513.
Email: europe@fiu.edu; Website: http://europe.fiu.edu

Graduate Certificate in Homeland Security and Emergency Management

Susannah Ali, *Co-Chair and MPA Director*
Nazife Emel Ganapati, *Co-Chair*

The Graduate Certificate in Homeland Security and Emergency Management is designed to provide critical analytic skills to "first-responders" and those in related fields. The certificate will help professionals navigate a complex intergovernmental policy framework with an eye to best practice allocation of scarce local and regional resources devoted to preventing or mitigating the potential impacts of natural and human-made perils. Coursework will focus on the roles and responsibilities of public, nonprofit, and private organizations in the context of South Florida's vulnerable operating environment. The content of this certificate is aligned with FIU's urban mission of providing engaged learning in its service are as well as the Departmental mission of our accredited Master of Public Administration (MPA) program which primary student body is in the local government sector. This certificate program is open to degree seeking students only.

Admissions

All applicants must hold a baccalaureate degree from an accredited college or university and have an upper division GPA of at least 3.0. Applicants with GPA lower than 3.0 may be considered if they submit a GRE, LSAT or GMAT Score. Students must be admitted to the certificate

program to start taking classes. Admission to a certificate does not guarantee admission to the Master of Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have certificate courses credited toward the MPA degree provided each course has a grade of "B" or higher and the student is admitted to the master's degree program prior to the completion of no more than 12 Graduate Certificate credits.

Certificate Requirements (15 credits)

Required: (9 credits)

URP 5426	Emergency Management and Planning	3
PAD 6399	Homeland Security Management for State and Local Government	3
PAD 6379	Homeland Security Risk Assessment	3

Electives: (6 credits)

Certificate students who are not also MPA students must take PAD 6907 (Independent Study) as a certificate capstone. If they do, they will only have to take one additional elective course (3 credits).

URP 6315	Introduction to Urban Planning and Growth Management	3
PAD 5443	The Public Administrator and Media Relations	3
PAD 5043	Equitable and Inclusive Governance	3
PAD 6605	Administrative Law and Procedures	3
PAD 6710	IT and E-government	3
PAD 6717	GIS Applications for Urban Management	3
CPO 6771	Politics of Disaster	3
DSC 6020	Terrorism and Homeland Security	3
EVR 5122	Natural Disasters and Social Vulnerability	3
GIS 5050	Environmental GIS	3
INR 5066	Global and Human Security	3
INR 6067	Human Security	3
MAN 6706	Crisis Management	3
PHC 6251	Disaster and Emergency Epidemiology	3
PHC 6374	Environmental Disasters and Human Health	3
SYG 6932	Special Topics in Disaster Studies	3
PAD 5934*	Contemporary Issues in Public Administration	3
PAD 6946	Public Administration Internship	0-3

Students may take up to two electives outside the Department. These electives must be selected from a list of approved electives or must be approved by Certificate Co-Chairs.

*Depending on the topic of the course and pending MPA Program approval, PAD 5934 (Contemporary Issues) may be counted as a certificate elective.

Graduate Certificate in Human Resource Policy and Management

Susannah Ali, *Co-Chair and MPA Director*
Valerie Patterson, *Co-Chair*

Human Resource Policy and Management is designed to give graduate students a range of policy-analysis and management skills. It provides training in alternative personnel systems, (civil service, collective bargaining, privatization and service contracting), personnel techniques for productivity improvement, current issues, and ethics and professionalism. This certificate emphasizes the application of behavioral science concepts and techniques to employers in a multicultural context. This certificate program is open to degree seeking students only.

Admissions

All applicants must hold a baccalaureate degree from an accredited college or university and have an upper division GPA of at least 3.0. Applicants with GPA lower than 3.0 may be considered if they submit a GRE, LSAT or GMAT Score. Students must be admitted to the certificate program to start taking classes. Admission to a certificate program does not guarantee admission to the Master of Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have certificate courses credited toward an outside specialization in Human Resource Policy and Management. All the credits earned in a Graduate Certificate Program may be used in a master's degree program provided the student is admitted to the master's degree program prior to the completion of no more than 12 Graduate Certificate credits. All transferred courses must have a grade of 'B' or better.

Certificate Requirements (15 credits)

The following three courses are required

PAD 6156	Applied Organization Theory and Behavior	3
PAD 5427	Collective Bargaining and the Public Sector	3
PAD 6605	Administrative Law	3

Electives (6 credits)

Certificate Students who are not also MPA students must take PAD 6907 (Independent Study) as a certificate capstone. If they do, they will only have to take one additional elective course (3 credits).

PAD 5043	Equitable and Inclusive Governance	3
PAD 5416	Social Equity and Human Resource Management	3
PAD 5435	Gender Equity and Leadership in Public Administration	3
PAD 5460	Performance Management	3
PAD 5616	Contracting and Managing Third Party Governments	3
PAD 6436	Professionalism and Ethics	3
PAD 6710	IT & E Government	3
PAD 5934*	Contemporary Issues in Public Administration	3
PAD 6946	Public Administration Internship	0-3

Students may take up to two electives outside the Department. These electives must be selected from a list of approved electives or must be approved by Certificate Co-Chairs.

*Depending on the topic of the course and pending MPA Program approval, PAD 5934 (Contemporary Issues) may be counted as a certificate elective.

Students must earn a minimum of 3.0 cumulative GPA. All course grades must be "C" or better.

Graduate Certificate in Iberian Studies

Elizabeth Terry-Roisin, *Director, History Department*

Coordinating Committee
María Gómez, *Modern Languages*
Barbara Watts*, Art and Art History*
Daniel Guernsey*, Art and Art History*
Carlos Grenier*, Religious Studies*
Medardo Rosario, *Modern Languages*

This Graduate Certificate will focus on Iberian cultures in the long-term context of European and Mediterranean history, connecting with Islam and Judaism as well as with the Americas, thus building upon the Latin American and Caribbean scholarly expertise of our university. The Certificate also fits very well within the university's strategic pillar and mission of globalization. In particular, the Iberian Peninsula, as well as the Mediterranean, constitute more than just a geopolitical space but rather represent a regional mélange connecting among a variety of cultures. These two regions also connect to the Caribbean and the larger Florida peninsula in various ways that could in turn translate into an innovative and unique program for the Green School's interdisciplinary focus. This certificate program is open to degree-seeking students only.

Certificate Requirements

Students must be enrolled in a Master or Ph.D. program at FIU. A total of 18 credit hours (6 courses) of graduate course work, with a cumulative GPA of 3.25 and a grade of "B" of higher in all courses applied toward certificate requirements.

Language Requirement

Students must be proficient in reading and comprehension of Spanish and/or Portuguese to be able to undertake research.

Required Courses

The Graduate Certificate in Iberian Studies is 18 credits (6 courses). Five (5) courses required, including at least three (3) of the four (4) disciplines represented, meaning that up to three courses can be of one discipline, and the other two (2) must come from two (2) others: History, Art History, Religious Studies, and Modern Languages. Pending the availability of courses, alternative graduate level courses can be chosen by the student in consultation with the director.

History

EUH 5905	Readings in European History: Early Modern Europe	3
EUH 5905	Readings in European History: Medieval Europe	3
HIS 5908	Independent Study: Medieval and Early Modern Spain	3

Religious Studies

RLG 5520	World Christianity	3
RLG 5360	Classical Arabic	3
RLG 5364	Advanced Topics in Islamic Mysticism (Sufism)	3

Modern Languages

SPW 5277	Twentieth Century Spanish Narrative	3
SPW 5428	Theatre in Calderon and Lope	3
SPW 5729	Major Writers of the Generation of '98	3
SPW 6335	Golden Age Poetry	3
SPW 6216	Golden Age Prose	3

Art History

ARH 5421	Graduate Enlightenment and Romanticism	3
ARH 5441	Graduate Realism, Impressionism, And Post Impressionism	3
ARH 5845	Graduate Spanish Art	3
ARH 5465	Graduate Modern Art	3
ARH 5362	Baroque Art	3

Electives

The remaining (1) course might be chosen from the electives listed every semester.

History

EUH 5935	Topics in European History: History of Early Modern Spain	3

Modern Languages

SPW 5348	Avant-Garde Spanish Poetry: From Creacionismo to Lorca	3
SPW 5934	Special Topics in Language/Lit: Literature and Cartography of the Caribbean, 1492-1700	3
SPW 5934	Special Topics in Language/Lit: Cervantes in the Americas	3
SPW 5405	Medieval Spanish Literature	3
SPW 5407	The Renaissance in Spain	3

Religious Studies

RLG 5616	Jews and Muslims in the Middle Ages	3
RLG 5615	Medieval Judaism	3
RLG 5698	Sephardic and Oriental Jewry Colloquium	3

Art History

ARH 5897	Special Topics in Art History The Later Italian Renaissance	3

Graduate Certificate in Inclusion, Diversity, Equity, Access and Leadership (IDEAL)

Susannah Ali, *Co-Chair and MPA Director*
Meredith Newman, *Co-Chair*

Advancing Inclusion, Diversity, Equity, and Access does not pertain only to HR professionals, but also to any employee/manager within an organization and any resident/stakeholder within a community. The Graduate Certificate in Inclusion, Diversity, Equity, Access and Leadership (IDEAL) is designed to develop public, private, and nonprofit leaders and enable change makers by equipping them with increased awareness, working knowledge, analytical skills, policy options, and best practices for identifying and overcoming multi-faceted disparities in Inclusion, Diversity, Equity, and Access. The certificate is devoted to developing the next generation of problem solvers, policy innovators, and change makers. It provides professional training and career preparation for those seeking careers and advancements in the design, implementation, evaluation, and advocacy of Inclusion, Diversity, Equity, and Access, as analysts, consultants, public administrators, and elected officials in the local, state, and federal governments. The content of this

certificate is aligned with FIU's urban mission of providing inclusive learning and with the mission of the NASPAA-accredited Master of Public Administration (MPA) program which advances equity and develops quality workforce in public policy, administration and management. This certificate program is open to both degree-seeking and non-degree-seeking students.

Admissions
All applicants must hold a baccalaureate degree from an accredited college or university and have an upper division GPA of at least 3.0. Applicants with GPA lower than 3.0 may be considered if they submit a GRE, LSAT or GMAT Score. Students must be admitted to the certificate program to start taking classes. Admission to a certificate does not guarantee admission to the Master of Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have certificate courses credited toward the MPA degree provided each course has a grade of "B" or higher and the student is admitted to the master's degree program prior to the completion of no more than 12 Graduate Certificate credits.

Certificate Requirements (15 credits)
Required: (9 credits)

PAD 5187	Cultural Competency	3
PAD 5043	Equitable and Inclusive Governance	3
PAD 5435	Gender Leadership in Public and Nonprofit Orgs	3

Electives: (6 credits)

PAD 6436	Professionalism and Ethics	3
PAD 5416	Social Equity and Human Resource Management	3
PAD 6807	Urban and Municipal Government Administration	3
PAD 5805	Economic Development and Urban Revitalization	3
PAD 5934*	Contemporary Issues in Public Administration	3
PAD 6946	Public Administration Internship	0-3

*Depending on the topic of the course and pending MPA Program approval,
PAD 5934 (Contemporary Issues) may be counted as a certificate elective.

Graduate Certificate in International and Comparative Public Administration

Susannah Ali, *Chair and MPA Director*

The Certificate in International and Comparative Public Administration is designed as a specialization for students interested in international policy and administrative affairs. The certificate program will expose students to international policy aspects such as globalization, immigration, information technology, transnational institutions and other related areas. This certificate program is open to degree seeking students only.

Admission Requirements

All applicants must hold a baccalaureate degree from an accredited college or university and have an upper division GPA of at least 3.0. Applicants with GPA lower than 3.0 may be considered if they submit a GRE, LSAT or GMAT Score. Students must be admitted to the certificate program to start taking classes. Admission to a certificate program does not guarantee admission to the Master's Degree in Public Administration (MPA) program.

In order to have certificate courses credited toward the MPA, each course must have a grade of 'B' or higher and the student must be admitted to the master's degree program prior to the completion of no more than 12 Graduate Certificate credits.

Program Requirements (15 credits)

Three Required Courses

PAD 6836	International Public Administration	3
PAD 6838	Development Administration	3
PAD 6436	Professionalism and Ethics	3

Electives (6 credits)
Certificate Students who are not also MPA students must take PAD 6907 (Independent Study) as a certificate capstone. If they do, they will only have to take one additional elective course (3 credits).

GEO 5557	Globalization	3
GEO 6603	Cities and Regions in Global Perspective	3
INR 5507	International Organizations I	3
INR 6010	Global Governance	3
POS 5146	Seminar in Urban Politics	3
PAD 5934*	Contemporary Issues in Public Administration	3
PAD 6946	Public Administration Internship	0-3

Students may take up to two electives outside the Department. These electives must be selected from a list of approved electives or must be approved by Certificate Co-Chairs.
*Depending on the topic of the course and pending MPA Program approval, PAD 5934 (Contemporary Issues) may be counted as a certificate elective.

Students must earn a minimum of 3.0 cumulative GPA. All course grades must be "C" or better.

Graduate Certificate in Japanese Studies

Steven Heine, *Director, Asian Studies*

Coordinating Committee
Matthew Marr, *Global and Sociocultural Studies*
Asuka Mashav, *Modern Languages*
Eric Messersmith, *Asian Studies*

The objective is to provide interdisciplinary graduate instruction in the culture and society of Japan within the context East Asian area studies. This program is available to students who are enrolled in the Asian Studies M.A., as well as students in other programs who wish to develop a specialized focus on Japan. This certificate program is open to degree-seeking students only.

Certificate Requirements: (15 credits)

Core Courses: (9 credits)

Three courses on Japanese Studies. See Sample listing below:

ARH 5550	Advanced Arts of China and Japan	3
ASN 5129	Religion and Society in Japan	3
ASN 5130	Zen and the Arts	3
ASN 5131	Zen and the Arts II	3

ASN 5315	Topics in Modern Asia	3
ASH 5446	Readings in Japanese History	3
FOW 5934	Special Topics in Language/Literature	3
JPN 5907	Independent Study	1-3
INR 5543	International Politics Economy of East Asia	3
SYD 5656	Global Japan	3

Electives: (6 credits)

Two courses on Asian or comparative studies. See sample listing below:

ASH 5905	Readings in Asian History	3
ASH 5930	Topics in Asian History	3
ASN 5050	Methods in Asian Studies	3
ASN 5211	Asian Cultures and Influences	3
ASN 5306	Applying Asian Cultural Values in Business	3
ASN 5815	Studies of East Asian Texts	3
ASN 5910	Independent Research in Asian Studies	1-6
ASN 5932	Special Topics in Asian Studies	3
ASN 6930	Seminar in Asian Studies	3
INR 5543	International Politics Economy of East Asia	3
INR 5544	The New Asian Century	3
RLG 5352	Religions of East Asia	3
RLG 6319	Seminar in Asian Religions	3
SYD 6655	Seminar on Social Change in Asia	3

Other courses can be approved by permission of the Program Director and Coordinating Committee.

For more information, contact the Asian Studies office, SIPA 512. Email: **asian@fiu.edu**; phone: (305) 348-1914; website: **http://asian.fiu.edu**.

Graduate Certificate in Latin American and Caribbean Studies

Luis Guillermo Solis Rivera, *LACC, Interim Director*
Liesl Picard, *Associate Director*
Gabriela Hoberman, *Director of Academic Programs*
José Miguel Cruz, *Director of Research*

LACC Faculty Advisory Board

Alejandro Alvarado, *Associate Professor, Journalism and Media, and Director, Spanish-Language Master's Program, College of Communication, Architecture and the Arts*
Ligia Collado-Vides, *Teaching Professor and Associate Chair, Department of Biological Sciences, College of Arts, Sciences and Education*
Jose Miguel Cruz, *Director of Research, Kimberly Green Latin American and Caribbean Center*
Andrea Fanta Castro, *Associate Professor, Department of Modern Languages, Steven J. Green School of International and Public Affairs*
Leonardo Ferreira, *Professor and Worlds Ahead Scholar, Journalism and Mass Communication*
Gabriela Hoberman, *Academic Programs Director, Kimberly Green Latin American and Caribbean Center*
Joseph Holbrook, *Assistant Teaching Professor, Kimberly Green Latin American and Caribbean Center*
Hilary Landorf, *Executive Director, Global Learning Initiatives and Associate Professor, College of Education*
Mark B. Padilla, *Professor, Global and Sociocultural Studies*
Ronaldo Parente, *Professor, College of Business*
Bianca Premo, *Professor, Department of History, Steven J. Green School of International and Public Affairs*
Gayle Williams, *Librarian, Information & Research Service, Library Operations, Latin America & Caribbean Information Services Librarian*

Offered through the Kimberly Green Latin American and Caribbean Center (LACC), this graduate certificate provides an interdisciplinary approach to the study of Latin America and the Caribbean. The certificate may be awarded to both degree and non-degree seeking students who complete the requirements. For students pursuing a degree, the certificate is a complement to the student's discipline or major area of studies. For non-degree seeking students, the certificate provides a means for understanding more about Latin America and the Caribbean without pursuing a longer degree program.

Certificate Requirements

1. A total of 15 credit hours of graduate course work with a grade of 'B' or higher. Courses must come from the approved Latin American and Caribbean Studies course listing or be approved by the certificate faculty advisor. Courses may include those in the student's departmental major, but must be selected from at least two disciplines outside the student's major. A student may elect to focus on a country, region, or topic for the certificate (such as political science, Cuban studies, international business, art history, migration, etc.) or pursue a broader selection of courses in a variety of disciplines.
2. Each student is required to demonstrate reading proficiency in either Spanish or Portuguese, or in another regional language such as French, Haitian Creole, or Dutch when justified by research interests. Proficiency is demonstrated by scoring at least 'intermediate-high' on the ACTFL/ETS exam for Spanish, Portuguese, or French. Corresponding tests of proficiency may be accepted upon approval of the graduate advisor.

NOTE: Intermediate-high on the ACTFL/ETS exam (1-plus on the US government scale) can normally be attained by students with two undergraduate semesters of basic language instruction and at least one undergraduate semester of intermediate (3000/4000 level) instruction. Attainment of the required language proficiency is the responsibility of the student and extra courses to achieve the required proficiency level must be taken outside the certificate curriculum.

All LACC approved courses are posted at **https://lacc.fiu.edu/academics/courses/graduate/**.
All courses listed from 5000 through 7000 series may be applied to the certificate.

Students interested in pursuing a Latin American and Caribbean Studies Graduate Certificate should contact the certificate advisor at (305) 348-2894 or email **lacc@fiu.edu**.

Graduate Certificate in Middle East and Muslim World Studies

Mohiaddin Mesbahi, *Director, Mohsin and Fauzia Jaffer Center for Muslim World Studies*

Coordinating Committee
Iqbal Akhtar, *Religious Studies/Politics and International Relations*
Daniel R. Alvarez, *Religious Studies*
Cyra Choudhury, *College of Law*
Eric S. Lob, *Politics and International Relations*
Benjamin N. Smith, *Global and Sociocultural Studies*
Terrence Peterson, *History*

The Middle East is the most significant and consequential region shaping contemporary world politics and dynamics. Strong knowledge of the Middle East is a major asset to graduates seeking employment in governmental institutions and the private sector, or going on to graduate school and into academia. The Graduate Certificate in Middle East and Muslim World Studies, which is offered through the Mohsin and Fauzia Jaffer Center for Muslim World Studies at Florida International University provides students with the opportunity for a rich multidisciplinary learning experience. Students have a choice of courses in the fields of international relations, geography, history, political science, religious studies, sociology/anthropology, and modern languages, among others. The program defines the "Middle East" broadly, encompassing the study of adjacent regions including Central Asia and the larger Muslim world. For more information contact the Mohsin and Fauzia Jaffer Center for Muslim World Studies at Florida International University at the Steven J. Green School of International and Public Affairs, SIPA 528. Email: **jaffercenter@fiu.edu;** phone: (305) 348-1792; Website**: jaffercenter.fiu.edu**

Admission Requirements

Baccalaureate degree from an accredited institution for higher education (or equivalent), with a minimum cumulative grade point average of 3.0 for the last two years of undergraduate work, and current enrollment in an FIU graduate program. This certificate program is open to degree seeking students only.

Certificate Requirements:

A total of 18 credit hours of graduate course work, with a cumulative GPA of 3.0 and a grade of C or higher in all courses applied toward certificate requirements.

1) Core Requirements (6 credits):

Three credits from each group below.

Group A (3 credits):

CPO 6407	Seminar in Middle East Politics
INR 5275	International Relations of the Middle East
INR 5086	Islam in International Relations
INR 5276	IR of Iran and the Persian Gulf

Group B (3 credits):

INR 5086	Islam in International Relations
RLG 6097	Muslim Concepts of War: A Perspective for National Security
RLG 6094	Seminar in Religious Fundamentalism
RLG 6096	Advanced Religious Fundamentalism: A Viewpoint for National Security

Note: Students may choose to take additional courses from Groups A and B as "Electives".

2) Elective Courses (12 credits):

Four courses (12 credits) from the courses listed below:

ASN 5605	Silk Road: Then and Now
CPO 6084	War, Peace and the Military
HIS 5289	Comparative History*
HIS 5930	Special Topics in History*
INR 5352	Environment and Security
INR 5062	War, Peace and Conflict Resolution in INR
INR 5276	Graduate Seminar the International Relations of Iran and the Persian Gulf
RLG 5907	Independent Study in Sephardic and Oriental Jewry
INR 6266	Seminar in Russian Foreign Policy
INR 6338	Seminar in Strategic Studies*
RLG 5394	Jewish Mystical Texts
RLG 5360	Classical Arabic
RLG 5366	Advanced Interpretation of the Quran: Gender and Jihad
RLG 5369	Voice of the Prophet
RLG 5613	Religion, Culture and Politics in Israel
RLG 5617	Jews and Muslims in the Middle Ages
RLG 5629	Kabbalah, Peace and War
RLG 6442	Religion in the Contemporary World
EVR 5353	International Energy Policy
SYD 5045	Population and Society*
SYD 6236	International Migration and Refugees*
SYO 6536	Comparative and Global Inequality*
WOH 5935	Topics in World History *

*Seminars and Special Topics are appropriate for certificate when dealing with issues of the broader Middle East (Eligibility to be determined by Program Director).

In addition to the courses listed above, new courses (as they become available), relevant special topics, independent studies, study abroad credits, and area studies or comparative studies courses may also be applied with the prior approval of the certificate program director. Students may consult the list of eligible courses announced at the beginning of the academic year or semester through the Jaffer Center at jaffercenter.fiu.edu.

Graduate Certificate in National Security Studies

Brian Fonseca, *Director, Jack D. Gordon Institute for Public Policy*

Coordinating Committee
John H. Boyd III, *Economics*
Edward Glab, *College of Business*
Christine E. Gudorf, *Religious Studies*
Steven Heine, *Religious Studies and History*
Mohiaddin Mesbahi, *Politics and International Relations*
Richard Olson, *Politics and International Relations*
Ediberto Roman, *College of Law*
Luis P. Salas, *Criminal Justice*
Richard S. Tardanico, *Global and Sociocultural Studies*
Victor Uribe, *History*

Offered through the Jack D. Gordon Institute for Public Policy, the certificate may be awarded to both degree and non-degree seeking students who complete the requirements. For students pursuing a degree, the certificate is a complement to a student's discipline or major area of studies. For non-degree seeking students, the certificate provides a means for understanding more about national security in the 21st century. For more

information, contact the Gordon Institute, LC 220. Email: **jgi@fiu.edu**; phone: (305) 348-2977; website: **http://gordoninstitute.fiu.edu**

Certificate Requirements

1. A total of 18 credit hours of graduate course work with a grade of "B" or higher. Courses must come from the approved GCNSS course listing or be approved by the certificate advisor. Courses may include those in the student's departmental major, but must also be selected from at least two disciplines outside the student's departmental major. With the approval of the Director, courses other than those listed herein may be substituted on a case-by-case basis.
2. A two-course introductory language sequence at FIU with a grade of "B" or higher. Exemption from this requirement may be obtained through a proficiency examination administered by the FIU Department of Modern Languages. Language courses may not be counted toward the fulfillment of requirement #1 above.

Note: Intermediate-high on the ACTFL exam (1-plus on the US government scale) can normally be attained by students with two undergraduate semesters of basic language instruction and at least one undergraduate semester of intermediate (3000/4000) instruction. Attainment of the required language proficiency is the responsibility of the student, and extra courses to achieve the required proficiency level must be taken outside the GCNSS curriculum.

Skill Requirement: (3 credit hours)

POS 5785	Writing Professionally in Political Science
ISS 5388	Communicating Analytically

Core Requirement: (6 credit hours)

*Select **one** of the following courses:*

GIS 5620	Surveillance, Intelligence, and International Relations
POS 5706	Research Methodology
SYA 6305	Research Methods I

*Select **one** of the following courses:*

INR 5007	Seminar in International Politics
INR 5105	American Foreign Policy
INR 5315	Foreign Policy Analysis
INR 5615	Research Design in International Relations
INR 6107	U.S. Foreign Policy: Processes and Institutions
INR 6338	Seminar in Strategic Studies

National Security Studies: (3 credit hours)

ISS 5135	National Security Essentials

Electives: (6 credit hours)

*Select **two** of the following courses:*

Business, Finance & Management

FIN 6644	Global Financial Strategy
FIN 6636	International Finance

Criminal Justice

CCJ 6040	Comparative Crime and Criminal Justice Systems
CCJ 6056	History of the American Criminal Justice System
CJL 6421	Legal Issues in Criminal Justice Administration
CCJ 6935	Special Topics
PAD 6701	Quantitative Methods in Public Administration
CCJ 6676	Transnational Crime and National Security
DSC 6020	Terrorism and Homeland Security

Economics

ECO 6225	Economics of Asset Markets
ECO 6416	Applied Quantitative Methods in Economics
ECO 7206	Macroeconomic Theory I
ECO 7207	Macroeconomic Theory II
ECO 7236	Money, Banking and Monetary Policy
ECO 7424	Economic Metric Methods I
ECO 7425	Economic Metric Methods II
ECO 7705	International Trade
ECO 7716	International Money
ECS 5406	Latin American Economies
ECS 6436	Economics of Caribbean Migration
ECS 7405	Economics of Latin America
ECS 7435	Economics of the Caribbean
ECS 7445	Economics of Central America
ECO 5709	The World Economy
ECP 5707	International Economic Problems
ECS 5005	Comparative Economic Systems
ECS 5027	Economic Development of Emerging Nations
ECS 7015	Development Economics: Theory
ECS 7026	Development Economics: Planning and Policy

Global and Sociocultural Studies

GEA 6409	Landscapes of Violence and Healing in the Americas
GEO 5557	Globalization
GEO 6473	Space, Place and Identity
ANG 6303	Comparative Feminisms
ANG 6339	Seminar on Latin America
ANT 6302	Gender Identity in Comparative Perspective
SYD 5045	Population and Society
SYD 6236	International Migration and Refugees
SYD 6705	Comparative Analysis of Ethnicity and Race
SYG 6932	Special Topics in Disaster Studies
SYP 6907	Comparative and Global Social Change
GIS 5935	Topics in Geographic Information Systems
GIS 5038	Remote Sensing
GEO 5415	Topics in Social Geography
SYO 6306	Political Sociology
SYP 5447	Development and Post-Development

History

AFH 5905	Readings in African History
AFH 5935	Topics in African History
AMH 5905	Readings in American History
AMH 5935	Topics in American History
EUH 5905	Readings in European History
EUH 5935	Topics in European History
HIS 6059	Historical Methods
LAH 5905	Readings in Latin American History
LAH 5935	Topics in Latin American History
WOH 5237	The African Diaspora Since the End of the Slave Trade

HIS 5939	Special Topics
AMH 5935	Topics in American History
EUH 5935	Topics in European History

Law

LAW 6251	Comparative Constitutional Law
LAW 6255	Comparative Law: Constitutions and the Judicial Process
LAW 6280	European Union Law
LAW 6264	Immigration Law
LAW 6103	International Criminal Law
LAW 7268	International Environmental Law
LAW 6263	International Human Rights Law
LAW 6282	Law and Politics in Latin America
LAW 6260	Public International Law
LAW 7930	Special Topics in Law
LAW 6506	Foreign Relations and National Security Law
LAW 6936	Topics: Seminar in National Security and the Constitution

Politics and International Relations

CPO 5325	Politics of the Caribbean
CPO 6105	Politics of the European Union
CPO 6106	Seminar in European Politics
CPO 6206	Seminar in African Politics
CPO 6307	Seminar on South American Politics
CPO 6350	Seminar in Brazilian Politics
CPO 6376	Seminar in Central American Politics
CPO 6407	Seminar in Politics of the Middle East
INR 6089	International Relations and Human Rights
CPO 6316	Seminar in Latin American Democratic Institutions
INR 5087	Ethnicity and the Politics of Development
INR 6936	Seminar in Inter-American Politics
POS 6725	Formal Political Modeling
POS 6918	Seminar in Political Science Research
INR 5036	Politics of Globalization
INR 5086	Islam in International Relations
INR 5087	Ethnicity and the Politics of Development
INR 5255	Seminar in African Development
INR 5275	International Relations of the Middle East
INR 5409	International Law I
INR 5507	International Organizations I
INR 5607	International Relations and Development
INR 5609	Dynamics of International Relations in the 20th Century
INR 6209	Comparative Foreign Policy of Latin America
INR 6266	Russian Foreign Policy
INR 6406	International Law II
INR 6605	Contemporary International Systems
INR 6706	Political Economy of International Relations
CPO 5036	Politics of Development
CPO 5936	Seminar in Comparative Political Parties
CPO 6092	Seminar in Comparative Political Culture
INR 5036	Politics of Globalization
INR 5062	War, Peace and Conflict Resolution in INR
INR 5934	Topics in International Politics
INR 6705	Seminar in International Political Economy

Religious Studies

RLG 5025	Myth and Religion
RLG 5144	Women and Religion
RLG 5149	Religion, Violence, and Conflict
RLG 5352	Religions of East Asia
RLG 5488	Theology and Liberation Movements
RLG 6322	Seminar in Western Religions
RLG 6319	Seminar in Asian Religions
RLG 6442	Religion in the Contemporary World

Graduate Certificate in Nonprofit and Community Development

Susannah Ali, *Co-Chair and MPA Director*
Sukumar Ganapati, *Co-Chair*

The Graduate Certificate in Nonprofit and Community Development is intended to provide critical tools and analytic frameworks useful to local decision-makers responsible for developing and managing sustainable, high-wage communities in an increasingly competitive world economy. Course material will address the critical drivers of local and regional development in the context of South Florida's "gateway" status for commerce and immigration. Content will address spatial, managerial, and social components of development. The certificate is aligned with FIU's urban mission of providing engaged learning in its service area as well as the Departmental mission of our NASPAA-accredited Master of Public Administration (MPA) program which primary student body is in the local government sector. This certificate program is open to degree seeking students only.

Admissions

All applicants must hold a baccalaureate degree from an accredited college or university and have an upper division GPA of at least 3.0. Applicants with GPA lower than 3.0 may be considered if they submit a GRE, LSAT or GMAT Score. Students must be admitted to the certificate program to start taking classes. Admission to a certificate does not guarantee admission to the Master of Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have certificate courses credited toward the MPA degree provided each course has a grade of "B" or higher and the student is admitted to the master's degree program prior to the completion of no more than 12 Graduate Certificate credits.

Certificate Requirements: (15 credits)

Required: (9 credits)

PAD 6142	Management of Nonprofit Organizations	3
PAD 5805	Economic Development and Urban Revitalization	3
PAD 6209	Financial Management in Public and Nonprofit Organizations	3

Electives: (6 credits)
Certificate students who are not also MPA students must take PAD 6907 (Independent Study) as a certificate capstone. If they do, they will only have to take one additional elective course (3 credits)

PAD 5043	Equitable and Inclusive Governance	3

PAD 5443	The Public Administrator & Media Relations	3
PAD 5616	Contacting & Managing Third Party Governments	3
PAD 6038	Policy Formation & Legitimization	3
PAD 6156	Applied Org Theory & Behavior	3
PAD 6366	Policy & Program Implementation	3
PAD 6436	Professionalism & Ethics	3
PAD 6437	Dynamics of Individual Growth	3
PAD 6807	Urban and Municipal Government Administration	3
PAD 6836	Development Administration	3
PAD 6946	Public Administration Internship	0-3
PAD 5934*	Contemporary Issues in Public Administration	3
PAD 6717	GIS Applications for Urban Management	3
URP 5426	Emergency Management and Planning	3
URP 6315	Introduction to Urban Planning and Growth Management	3

Students may take up to two electives outside the Department. These electives must be selected from a list of approved electives or must be approved by Certificate Co-Chairs.

*Depending on the topic of the course and pending MPA Program approval, PAD 5934 (Contemporary Issues) may be counted as a certificate elective.

Graduate Certificate in Public Finance, Procurement, and Contract Management

Susannah Ali, *Co-Chair and MPA Director*
David Guo, *Co-Chair*

The Certificate in Public Finance, Procurement and Contract Management is designed as a specialization for students interested in careers in budgeting, finance, purchasing, and contract management in the public and non-profit sectors. The certificate program will expose students to competencies in areas like contact and project management, public finance and the budgetary process, procurement and ethics, and legal aspects of procurement and public finance.

The Graduate Certificate in Public Finance, Procurement, and Contract Management has the following learning outcomes:

1. Appraise basic concepts in public finance and budgeting;
2. Evaluate the characteristics of a “good” public revenue system;
3. Understand of the field of public procurement and critical issues facing the field;
4. Know how to write a request for proposals/bid/quotes;
5. Learn how to solicit bids;
6. Understand different bases of accounting and their use by state/local governments and nonprofit organizations;
7. Apply various forecasting techniques and determine their accuracy;
8. Understand the basics of cash and debt management;
9. Assess the financial condition of an organization; and
10. Learn the basics of pension planning and administration.

Admissions

All applicants must hold a baccalaureate degree from an accredited college or university and have an upper division GPA of at least 3.0. Applicants with GPA lower than 3.0 may be considered if they submit a GRE, LSAT or GMAT Score. Students must be admitted to the certificate program to start taking classes. Admission to a certificate program does not guarantee admission to the Master of Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have certificate courses credited toward the MPA degree provided each course has a grade “B” or higher and the student is admitted to the master’s degree program prior to the completion of no more than 12 Graduate Certificate credits.

This graduate certificate program will consist of four required courses and two electives (18 credits total) that are taken for-credit. This certificate program is open to degree seeking students only.

Certificate Requirements (15 credits)

Certificate students who are not also MPA students must take PAD 6907 (Independent Study) as a certificate capstone. If they do, they will only have to take one additional elective course (3 credits).

Required Courses (9 credits)

PAD 6209	Financial Management in Public and Nonprofit Organizations	3
PAD 6855	Introduction to Public Procurement	3
PAD 6856	Contract and Project Management	3

Electives (6 credits)

PAD 5256	Economic Thinking in Policy Making	3
PAD 5460	Performance Management	3
PAD 6229	Advanced Management Techniques	3
PAD 6436	Professionalism and Ethics	3
PAD 6605	Administrative Law and Procedures	3
PAD 6710	IT and E-government	3
PAD 5934*	Contemporary Issues in Public Administration	3
PAD 6946	Public Administration Internship	0-3

*Depending on the topic of the course and pending MPA Program approval, PAD 5934 (Contemporary Issues) may be counted as a certificate elective.

Graduate Certificate in Public Management and Civic Leadership

Susannah Ali, *Chair and MPA Director*
Agatha S. Caraballo, *Director of the Maurice A. Ferré Institute for Civic Leadership; Associate Teaching Professor, Public Policy and Administration Coordinating*
Coordinating Committee:
Eric M. Feldman, *Associate Director of Student Success and Academic Program, FIU in Washington DC*
Howard Frank, *Director, Jorge M. Pérez Metropolitan Center*
Caryn Lavernia, *Assistant Vice President, Office of Engagement*
Daniella Long, *Graduate Program Manager, Public Policy and Administration*
Sara Moats, *Associate Teaching Professor, Politics and International Relations*

Valerie Patterson, *Clinical Professor and Director of the African and African Diaspora Studies Program*
Cristina Rodriguez-Acosta, *Assistant Director, Jack D. Gordon Institute for Public Policy*
Yenisleidy Simon, *Assistant Director of Academic Planning and Accountability, Office of Global Learning*
Carleen Vincent Robinson, *Teaching Professor, Criminology and Criminal Justice; Assistant Dean, Steven J. Green School of International and Public Affairs*

The Graduate Certificate in Civic Leadership prepares students for the evolving nature of civic leadership and public management through coursework and practice that emphasizes relationship building, change management, global dynamics, intercultural understanding, and collaboration. The goal of this certificate program is to foster civic leadership and engagement in the FIU student body by encouraging a consideration of leadership from multiple perspectives and contexts. Through involvement with the campus and greater community, students will become engaged in their own professional leadership education and development.
This graduate certificate program provides students with a thorough understanding of the managerial concepts and techniques of public administration and responsive civic leadership.

Certificate Requirements

Admissions

All applicants must hold a baccalaureate degree from an accredited college or university and have an upper division GPA of at least 3.0. Applicants with GPA lower than 3.0 may be considered if they submit a GRE, LSAT or GMAT Score. Students must be admitted to the certificate program to start taking classes. Admission to a certificate program does not guarantee admission to the Master of Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have certificate courses credited toward the MPA core. All the credits earned in a Graduate Certificate Program may be used in a master's degree program provided the student is admitted to the master's degree program prior to the completion of no more than 12 Graduate Certificate credits. Courses with a grade of less than 'B' may not count toward MPA program if they were taken as certificate courses.

Program of Study: (15 credits)
The following four courses are required:

PAD 5043	Equitable and Inclusive Governance	3
PAD 5416	Social Equity and Human Resource Management	3
PAD 6434	Leadership and Decision-Making	3
PAD 6907	Independent Study	3

One of the following electives must be taken to complete the certificate:

PAD 5435	Gender Equity and Leadership in Public Administration	3
PAD 6053	Political, Social, and Economic Context of PA	3
PAD 6156	Applied Organization Theory and Behavior	3
PAD 6436	Professionalism and Ethics	3
PAD 6209	Financial Management in Public and Nonprofit Organizations	3
PAD 6605	Administrative Law and Procedures	3
PAD 6710	IT & E Government	3
PAD 6807	Urban and Municipal Government Administration	3
PAD 6946	Public Administration Internship	0-3

Students must earn a minimum of 3.0 cumulative GPA. All course grades must be "C" or better.

To apply, students should complete a preassessment advising meeting to identify and define aligned professional development, training, and community engagement goals.
Students will be expected to attend at least six (6) approved FIU Student Conferences, educational training and/ or seminars and document completion of one community engagement project prior to completion. Students will meet with an Advisor at least once a semester to report their progress and prepare a portfolio artifact (e.g. policy memo, website, infographic) to be submitted in their final semester.
For more information, contact the Maurice A. Ferré Institute for Civic Leadership by email at ferre@fiu.edu or phone: (305) 348-1006, Email: ferre@fiu.edu; website: http:// ferre.fiu.edu

Graduate Certificate Program in Religious Studies

The purpose of the Graduate Certificate Program is to offer an alternative to the MA degree program for students who wish to pursue an organized program of study at the graduate level, but have no need of a degree and wish a shorter term project. This certificate program is open to degree-seeking students only.

Certificate Requirements

1. Students must either have taken the undergraduate course REL 3308 World Religions as a prerequisite before entering the certificate program, or must complete it within the program, usually in the first semester of coursework.
2. Students must complete 18 credit hours of graduate level courses in the general area of religion.
3. Students must have a minimum GPA of 3.0 in their graduate religion courses.
4. Earned grades in the 18 hours of graduate religion courses must be "B" or better; grades of "B-" or below will not be counted toward the 18.
5. Students in the Graduate Certificate Program in Religious Studies who wish to transfer into the MA program must meet the requirements for matriculation.

Graduate Certificate in Sustainable Communities

Coordinating Committee
Marta Canaves, *Landscape Architecture*
Richard S. Olson, *Politics and International Relations*
John H. Boyd, III, *Economics*
Joel Heinen, *Earth and Environment*

The Graduate Certificate in Sustainable Communities offers students an introduction to the theoretical and methodological tools necessary to critique and conduct research on society/environment interactions. The objective of the certificate is to prepare students to participate in current environmental debates, whether through scholarship and teaching, non academic professional activities or activism. The certificate requires eighteen credits of interdisciplinary courses.

This certificate will appeal to an interdisciplinary graduate student population at FIU drawing students from the Green School, the College of Arts and Sciences, as well as other schools and colleges (as reflected in the requirements below). In particular, the certificate will aid students interested in natural resource management and conservation, regional and urban planning, as well as domestic and international development and policy issues. This certificate program is open to degree-seeking students only. The certificate will serve students interested in pursuing careers in local, national and international government and non-governmental organizations, as well as academic careers.

Certificate Requirements

1. Application to the Certificate Program.
2. Acceptance to and good standing in a graduate degree program at FIU.

Core Course

ISS 5166	Seminar in Sustainable Communities

Electives

12 credit hours chosen from the list below. A 3 credit course can be substituted for any one of the listed electives with the approval of the Certificate Program Director.

Economics

ECP 6305	Advanced Environmental Economics

Earth and Environment

EVR 6330	Tropical Ecosystem Management
EVR 5355	Environmental Resources Policy
EVR 6360	Protected Area Management
EVR 7322	Methods of Sustainable Resource Management

Parks and Recreation Management

LEI 5605	Philosophical and Social Basis of Parks and Recreation

Politics and International Relations

CPO 6771	Politics of Disaster

Religious Studies

RLG 5183	Religion, Nature, and Globalization

Global and Sociocultural Studies

ANG 5267	Environmental Anthropology
SYD 6901	GIS and Social Research
GEO 6473	Space, Place and Identity
INR 6056	Environment and Development

Landscape Architecture

LAA 5243	Regional Landscape Issues
LAA 6551	Sustainable Landscapes
LAA 5541	South Florida Landscapes
LAA 6521	Tropical Landscapes

Possible Further Course Offerings

Development and Indigenous Peoples (Dept. Global and Sociocultural Studies)
Historical Ecology/Landscape History (Dept. Global and Sociocultural Studies)
Eco-Capitalism and Cultural Politics (Dept. Global and Sociocultural Studies)
Latin American Social Movements (Dept. Global and Sociocultural Studies)
Political Ecology of the Environment (Dept. Earth and Environment)

Directed Research: (3 credits)

In consultation with the Certificate Program Director, student will produce an independent research paper or comparable piece of work on sustainable communities.

Graduate Certificate in Urban Policy Innovations

Susannah Ali, *Chair and MPA Director*

The Graduate Certificate in Urban Policy Innovations is designed to provide critical analytical and policymaking skills to public and nonprofit leaders and professionals. It prepares them to identify, analyze, and develop innovative policy solutions for urban issues and challenges in areas of, including but not limited to, housing, transportation, economic development, urban revitalization, sustainability and resilience, smart growth, social equity, law enforcement and crime, climate change, and health care. The certificate is devoted to developing the next generation of problem solvers, policy innovators, and public leaders. It provides professional training and career preparation for those seeking careers and advancements in the design, implementation, evaluation, and advocacy of public policies, as analysts, consultants, and elected officials in the local, state, and federal governments. The content of this certificate is aligned with FIU's urban mission of providing inclusive learning and with the mission of the NASPAA-accredited Master of Public Administration (MPA) program which develops quality workforce in public policy, administration and management. This certificate program is open to degree seeking students only.

Admissions

All applicants must hold a baccalaureate degree from an accredited college or university and have an upper division GPA of at least 3.0. Applicants with GPA lower than 3.0 may be considered if they submit a GRE, LSAT or GMAT Score. Students must be admitted to the certificate program to start taking classes. Admission to a certificate does not guarantee admission to the Master of Public Administration (MPA) program.

Note: Those students who apply for and are admitted to the Master of Public Administration degree program may have certificate courses credited toward the MPA degree provided each course has a grade of "B" or higher and the student is admitted to the master's degree program prior to the completion of no more than 12 Graduate Certificate credits.

Certificate Requirements (15 credits)

Required: (9 credits)

PAD 5256	Economic Thinking in Policy Making	3

PUP 6105	Urban Challenges and Policy Innovations	3
PUP 6006	Public Policy Analysis and Evaluation	3

Electives: (6 credits)

PAD 5043	Equitable and Inclusive Governance	3
PAD 5805	Economic Development and Urban Revitalization	3
PAD 6156	Applied Org Theory & Behavior	3
PAD 6205	Public Financial Management	3
PAD 6366	Policy & Program Implementation	3
PAD 6436	Professionalism & Ethics	3
PAD 6605	Administrative Law and Procedures	3
PAD 6717	GIS Applications for Urban Management	3
PAD 6807	Urban and Municipal Government Administration	3
PAD 6816	Regional and State Government Administration	3
PAD 6836	Development Administration	3
PUP 6015	Public Policy	3
URP 5426	Emergency Management and Planning	3
URP 6315	Introduction to Urban Planning and Growth Management	3
URS 6930	Special Topics in Urban and Regional Studies	3
PAD 5934*	Contemporary Issues in Public Administration	3
PAD 6946 Internship	Public Administration	0-3

Students may take up to two electives outside the Department. These electives must be selected from a list of approved electives or must be approved by Certificate Co-Chairs.

*Depending on the topic of the course and pending MPA Program approval, PAD 5934 (Contemporary Issues) may be counted as a certificate elective.

Steven J. Green School of International and Public Affairs

Founding Dean **John F. Stack, Jr.**
Associate Dean, Graduate Studies and Innovation **Shlomi Dinar**
Associate Dean, Planning, Administration and Student Success **Jeffery Gonzalez**
Assistant Dean ***Carleen Vincent Robinson***
Executive Director, Strategic Initiatives **Pedro D. Botta**

Chairpersons and Program Directors:

African & African Diaspora Studies **Valerie L. Patterson**
Asian Studies **Steven Heine**
Criminology and Criminal Justice **Lisa Stolzenberg**
Economics **Mihaela Pintea**
Global and Sociocultural Studies **Vrushali B. Patil**
History **Victor M. Uribe**
Kimberly Green Latin American and Caribbean Center **Luis G. Solis Rivera**
Modern Languages **Pascale S. Bécel**
Politics and International Relations **Barry Levitt**
Public Policy and Administration **Shoaming Cheng**
Religious Studies **Erik W. Larson**

Faculty

Abi-Hamad, Saad, Ph.D. *(University of Texas at Austin), Associate Teaching Professor, History*
Adler, Jessica L., Ph.D. *(Colombia University), Associate Professor, History*
Akhtar, Iqbal S., Ph.D. *(University of Edinburgh), Associate Professor, Religious Studies and Politics and International Relations;*
Akkaya, Aslihan, Ph.D. *(Southern Illinois University), Associate Teaching Professor, Global and Sociocultural Studies*
Ali, Susannah B., Ph.D. *(American University), Associate Professor and MPA Director, Public Policy and Administration*
Alvarez, Daniel R., M.A. *(Harvard University), Associate Teaching Professor, Religious Studies*
André, Nicolas, M.A. *(Indiana University),Associate Teaching Professor, Modern Languages*
Ang, Adrian U-Jin, Ph.D. *(University of Missouri-Columbia), Assistant Professor, Politics and International Relations*
Arrarás, Astrid, Ph.D. *(Princeton University), Teaching Professor, Politics and International Relations*
Athayde, Simone, Ph.D. *(University of Florida), Associate Professor, Global and Sociocultural Studies*
Baghdadi, Nima, Ph.D. *(Florida International University), Visiting Assistant Teaching Professor, Politics and International Relations*
Bahadir, Berrak, Ph.D. *(Emory University), Associate Professor, Economics*
Baralt, Melissa L., Ph.D. *(Georgetown University), Associate Professor, Modern Languages*
Barder, Alexander D., Ph.D. *(The John Hopkins University), Associate Professor and Graduate Program Director, International Relations, Politics and International Relations*
Barata, Danay, M.Ed. *(Florida International University), Center for Labor Research Studies*
Bauman, Whitney A., Ph.D. *(Graduate Theological Union), Associate Professor, Religious Studies*
Bécel, Pascale S., Ph.D. *(University of California-Davis), Associate Professor and Chairperson, Modern Languages*
Bender, Tovah, Ph.D. *(University of Minnesota), Associate Teaching Professor and Undergraduate Program Director, History*
Bernier, Judith D., Ed.D. *(Florida International University), Associate Teaching Professor and Director, Center for Labor Research and Studies*
Bhat, Mahadev G., Ph.D. *(University of Tennessee-Knoxville), Professor, Earth and Environment and Economics*
Bidarkota, Prasad V., Ph.D. *(Ohio State University), Associate Professor, Economics*
Bidegain, Ana Maria, Ph.D. *(Catholic University of Louvain, Belgium), Professor, Religious Studies*
Blanfort, Candice A., Ph.D. *(Florida International University), Assistant Teaching Professor, and Field Experience Director,Criminology and Criminal Justice*
Boodhoo, Kenneth, Ph.D. *(University of West Indies), Professor Emeritus, Politics and International Relations*
Boyd III, John H., Ph.D. *(Indiana University), Associate Professor, Economics*
Breslin, Thomas A., Ph.D. *(University of Virginia), Professor, Politics and International Relations*
Bull, Jesse L., Ph.D. *(University of California-San Diego), Associate Professor, Economics*
Cadély, Jean-Robert J., Ph.D. *(Universite du Quebec-Montreal), Associate Professor, Modern Languages and African and African Diaspora Studies*
Camayd-Freixas, Erik, Ph.D. *(Harvard University), Professor, Modern Languages*
Capó, Julio, Ph.D. (Florida International University) *Associate Professor, History*
Caraballo, Agatha, Ph.D. *(Florida International University), Associate Teaching Professor, Public Policy and Administration; Director of the Maurice A. Ferré Institute for Civic Leadership*
Carter, Mitzi, Ph.D. *(University of California, Berkeley), Assistant Teaching Professor, Asian Studies and Global and Sociocultural Studies; Interim Director, Global Indigenous Forum*
Carton, Joel D., Ph.D. *(University of Oregon), Associate Teaching Professor, Economics*
Chang, Rosa E., Ph.D. *(University of Miami),Associate Teaching Professor and Graduate Program Director, Criminology and Criminal Justice*
Cheng, Shaoming, Ph.D. *(George Mason University), Associate Professor and Chairperson, Public Policy and Administration*
Chernela, Janet M., Ph.D. *(Columbia University), Professor Emerita, Global and Sociocultural Studies*
Chiang, Alvin, Ph.D. *(Florida International University), Assistant Teaching Professor, Economics*
Choi, Yoon-Jung, Ph.D. *(Syracuse University), Assistant Professor, Public Policy and Administration*
Choi, Young Rae, Ph.D. *(The Ohio State University), Assistant Professor, Global and Sociocultural Studies*
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