UNIVERSITY OF SOUTH FLORIDA
ST. PETERSBURG

2019-20
GRADUATE CATALOG
OFFICE OF GRADUATE STUDIES

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OFFICE OF GRADUATE STUDIES

Graduate Catalog 2019-2020

The policies and procedures herein have been approved, as appropriate, by the USF St. Petersburg Graduate Council, a standing committee of the USF St. Petersburg Faculty Senate and all appropriate USF System policy approval councils.

The policies, procedures, and requirements herein are applicable to students admitted to a graduate degree program and/or non-degree seeking students taking graduate coursework.

Undergraduate students should refer to the Undergraduate Catalog, even if taking graduate coursework. It is the student level that dictates which publication governs, not the level of coursework.

USF St. Petersburg Office of Graduate Studies,
140 Seventh Avenue South – PNM
St. Petersburg, FL 33701
www.usfsp.edu/Graduate-Catalog/

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This catalog is effective for the 2019-2020 academic year. This catalog includes all policies, procedures, and program and course descriptions in effect at the time of publication. USF St. Petersburg reserves the right to repeal, change, or modify the policies, procedures, programs, and course descriptions at any time. University of South Florida System (USF System) institutions publish undergraduate and graduate catalogs on each campus. Catalogs are not contracts, but are the source of general information including the USF System, its campuses, community, curricular offerings, degree and admission requirements, academic calendar, and facilities available to students, faculty and staff. Refer to USF System Policy 10-059, University of South Florida System Catalogs for further information.

The University of South Florida St. Petersburg is committed to the principles of equal education, equal access, and equal employment opportunities without regard to race, color, marital status, sex, religion, national origin, disability, age, or Vietnam or disabled veteran status as provided by law and in accordance with the University's respect for personal dignity. These principles are applied in the conduct of University programs and activities and the provision of facilities and services.

Archives online: (PDF Versions)
2018-2019   2009-2010
2017-2018   2008-2009
2016-2017
2015-2016
2014-2015
2013-2014
2012-2013
2011-2012
2010-2011

Academic Calendar

Fall 2019 through Summer 2020 Academic Schedules

Academic Calendar: http://www.usfsp.edu/academic-calendar/
Thesis Deadlines: https://www.usfsp.edu/graduate-studies/thesis-submission/

For information on important religious and cultural dates that may impact class attendance, refer to:
Cultural and Diversity Calendar: http://usfweb2.usf.edu/eoa/deo_calendar/default.asp

Attendance Policy for the Observance of Religious Days:
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-045.pdf

	FALL 2019
August 2	Summer 2019 session B classes end (End of Term)
August 3	Tampa Commencement
August 4	St. Petersburg Commencement
August 6	CANVAS closes; Summer 2019 final eGrades submission deadline
August 9	Summer 2019 grades visible on OASIS
August 12	Non-degree student Fall 2019 registration begins
August 23	Last day to register for Fall 2019 classes without late registration fee penalty
August 26	First day of Fall 2019 classes; drop/add week begins
August 30	Drop/Add ends, fee liability/tuition payment deadline
September 2	Labor Day Holiday; No classes & USF offices closed
September 3	Senior citizen audit registration Fall 2019
September 23	Fall 2019 graduation application deadline
October 7	Midterm opens
October 29	Midterm closes
November 2	Last day to withdraw; no refund & no academic penalty for Fall 2019
November 4	Registration for degree-seekers begins for Spring 2020
November 11	Veterans Day Holiday; No classes & USF offices closed
November 18	Canvas opens for final grades
November 25	Non-degree seeking students registration begins
November 28 & 29	Thanksgiving Holiday; no classes & USF offices closed
December 2	Non-degree registration begins for Spring 2020
December 4	Fall semester 2019 classes end
December 5 & 6	Reading days
December 7	Fall semester final exams begin
December 12	Final 2019 exams end (End of Term)
December 13 & 14	Tampa Commencement
December 15	St. Petersburg Commencement
December 16	Sarasota-Manatee Commencement
December 16	Start of intersession registration
December 17	Canvas closes for Fall 2019 eGrades submission
December 20	Grades visible in OASIS
December 24	Deadline to withdraw from intersession
December 25	Winter holiday; USF offices closed
	SPRING 2020
January 1	New Years Day Holiday; No classes and USF offices closed
January 9	State employee registration for Spring 2020 begins at 5 p.m.
January 10	Last day to register for Spring 2020 classes without late registration fee penalty

January 13	First day of Spring 2020 classes; drop/add week begins
January 17	Drop/Add ends; fee liability/tuition payment deadline; last day to submit Spring 2020 residency reclassification applications
January 20	Dr. Martin Luther King, Jr. Holiday; no classes & USF offices closed
February 10	Spring 2020 graduation application deadline
March 16-22	Spring Break 2020
March 28	Last day to withdraw; no refund & no academic penalty for Spring 2020
March 30	Registration for degree-seekers begins for Summer and Fall 2020
April 29	Spring semester 2020 last day of classes
May 1	Reading Day
May 2	Final exams begin
May 7	Spring 2020 final exams end (End of Term)
May 7-9	Tampa Commencement
May 10	St. Petersburg Commencement
May 11	Sarasota-Manatee Commencement
May 15	Spring 2020 grades visible in OASIS
May 18	First day of classes for Sessions A & C; drop/add week begins
May 22	Drop/Add ends, fee liability/tuition payment deadline
May 25	Memorial Day Holiday; no classes & USF offices closed
	SUMMER 2020
June 6	Last day to drop with "W"; no refund & no academic penalty for Session A
June 26	Summer Session A classes end
June 26	Session B deadline to register without late fee
June 27	Last day to withdraw; no refund and no academic penalty or Summer Session C classes
June 29	Summer 2020 Session B first day of classes
July 3	Independence Day Holiday (observed); no classes & USF offices closed
July 6	End of drop/add & last day to drop without fee liability for Session B
July 18	Last day to withdrw; no refund & no academic penalty Session B
July 24	Summer 2020 Session C classes end
August 7	Summer 2020 Session B classes end (End of Term)
August 8	Tampa Commencement
August 9	St. Petersburg Commencement
August 14	Summer 2020 grades visible in OASIS
August 24	First day of Fall 2020 classes; drop/add week begins (tentative)

Academic Calendar Dates for 2019-20 and beyond are pending approval from the University Calendar Committee and the University Board of Trustees. Note: Dates and times listed above are subject to change. Future dates will be posted as they become available.
If you have any questions about this calendar, please contact asktheregistrar@usf.edu.

Section 1
Welcome to the University of South Florida St. Petersburg

Founded in 1965, the University of South Florida St. Petersburg (USFSP) is a member of the public University of South Florida System. It is the oldest regional institution in the State University System of Florida, having been granted separate regional accreditation in 2006. The beautiful waterfront campus lies on the southern edge of downtown St. Petersburg, a lively urban center known for its rich arts and cultural assets.

The university is located on an intimate 63-acre waterfront nestled on breezy Bayboro Harbor on the shores of Tampa Bay. USF St. Petersburg within easy walking distance of museums, theaters, restaurants and nightlife. As one of Florida's most affordable public universities, USF St. Petersburg values personalized education that offers the best of both worlds: the advantages of a small, close-knit campus community with all the benefits of membership in the USF System.

USFSP Fast Facts:

➢ 27 undergraduate majors and 34 concentrations
➢ 17 graduate programs
➢ Ranked #25 among Southern Regional Public Universities by U.S. News and World Report
➢ Online MBA program ranked #2 for veterans, #3 in Florida and #30 nationally by U.S. News and World Report
➢ Featured in "The Princeton Review's Guide to 399 Green Colleges"
➢ 19:1 student-faculty ration
➢ More than $5 million in research dollars were awarded to USFSP in 2017-18
➢ 87% of USFSP faculty have earned the highest degree in their field
➢ USFSP's Kate Tiedemann College of Business is accredited by AACSB International for both business and accounting, a double distinction held by only 1 percent of business schools globally
➢ USFSP's College of Education has earned accreditation under the National Council for Accreditation of Teacher Education (NCATE) standards through the Council for Accreditation of Educator Preparation (CAEP) Accreditation System
➢ USFSP students have unparalleled opportunities to engage in research and internships including positions with the Smithsonian, White House, NASA, and corporate and community leaders.
➢ USFSP earned the university-wide classification for Community Engagement by the Carnegie Foundation for the Advancement of Teaching

USF St. Petersburg Campus Board

The Campus Board of the University of South Florida St. Petersburg was established by FS 1004.33 and includes five members who are residents of Pinellas County, Florida who are recommended by the President of the University of South Florida System and appointed by the University Of South Florida Board Of Trustees.

Duties

The review and approval of the annual legislative budget request to include items for campus operations and fixed capital outlay:

The approval and submission of an annual operating plan and budget for review and consultation by the Board of Trustees for the University of South Florida System, reflecting actual funding available to the campus from separate line-item appropriations contained in each annual General Appropriations Act;

Contracting with the Board of Trustees of the University of South Florida System for any services that USF St. Petersburg cannot provide more economically, including payroll processing, accounting, technology, construction administration, and other desired services through a letter of agreement (all legal services for the campus are provided by a central services contract with the USF System).

The Campus Board may receive other delegated powers and duties for the efficient operation and improvement of the campus and for the purpose of vesting in the campus the attributes necessary to meet the requirements of accreditation; and the System President shall consult with the Campus Board before hiring or terminating the Chancellor of USF St. Petersburg.

The members of our Campus Board are appointed by the USF System Board of Trustees. Information about each Campus Board member is available online at https://www.usfsp.edu/campus-board/

Members:

Stephanie E. Goforth, Chair, leads Northern Trust's West Florida Region, which encompasses the offices from Tampa to Naples, on the west coast of Florida. She is responsible for all aspects of its Wealth Management business including investment management, trust and fiduciary management, financial planning and private banking.

Prior to her current role, Goforth served as Senior Vice President and Regional Sales Manager for the West Coast of Florida and Atlanta Regions of The Northern Trust Company. She was responsible for managing all aspects of the region's trust and investment sales activities.

With more than 30 years of trust, investment and banking experience, Stephanie joined Northern Trust in 2005. She was most recently with Bank of America where she was a Senior Vice President, Private Client Advisor and City Executive responsible for all components of private client business in St. Petersburg. Prior to joining Bank of America in 1995, she worked with SunTrust Bank and First Florida Bank (Barnett Bank).

Stephanie earned her B. A. from the University of South Florida where she majored in business management. She holds the Series 7, 66 and 24 licenses and is a CERTIFIED FINANCIAL PLANNER™ (CFP®) Certificate and a Certified Private Wealth Advisor SM (CPWA®) Designee. She is one the Board of Trustees for the All Children's Hospital Board, University of South Florida Board, Conservancy of SW Florida Board and the Naples Botanical Gardens Board. She is also Past President of the Suncoaster's Festival of States Organization.

Susan Hamilton Churuti is partner of the Hamilton Partnership, which owns and manages the retail space at Parkshore Plaza and 400 Beach Drive, two urban, mixed-use high-rise developments on the waterfront tin downtown St. Petersburg. Previously, she was the co-chair of the State and Local Government Practice Group of Bryant, Miller, and Olive, PA and has worked extensively with the Pinellas County Attorney's Office serving as the County Attorney for over twenty years.

She has broad experience representing the county and its constitutional officers. Her expertise includes U.S. and state constitutional law, legislation, charters, eminent domain, elections, risk management, public construction, public finance, utilities and procurements, as well as litigation and appellate practice. She is proficient in board representation, serving as general counsel for more than 50 boards, commissions and special districts. She served for a long tenure as the attorney for the Pinellas County Legislative Delegation drafting local bills and special acts.

She lives in St. Petersburg with her husband, Robert Churuti.
Term expires 2022.

John Connelly is a Director at HUB International, an insurance brokerage that was formerly Connelly, Carlisle, Fields & Nichols. He was also a founding member of US AmeriBank. A graduate of the University of South Florida with a degree in Finance, he currently serves on the USF Board of Trustees Finance Committee.

He is also a board member of the House of Prayer and the YMCA of the Suncoast; and has been an active volunteer for organizations including the Gulf Coast Museum of Art, the Clearwater Chamber of Commerce, Morton Plant Hospital, and the Belleair Country Club.

John lives in Belleair with his wife, Marilyn, and they have three children. Term expires 2022.

Lawrence Hamilton is an Executive Coach and Adjunct Faculty member with the Center for Creative Leadership affiliate at Eckerd College and a Senior Consultant with living HR, Inc. Previously, Lawrence served as Senior Vice President, Worldwide Human Resources, a corporate officer and member of the Executive Committee at Tech Data Corporation.

He serves on the USF Board of Trustees ACE Committee, NASBA Center for Public Trust board of Directors and previously served as Chair, Compensation Committee and a member of the Board of Directors for HomeBanc Mortgage, Inc. and Wright Medical, Inc.; President of the INROADS/Tampa Bay, Inc. Policy Board of Directors; and is a co-founder of the Tampa Bay Chapter of the National Association of African Americans in Human Resources.

He lives in St. Petersburg and is the proud father of a daughter, Lauren, and a son, Lawrence William. Term expires 2020

Judy Mitchell is the former president and owner of Peter R. Brown Construction. During her tenure there, the company was frequently ranked by FIU's Business School as being among the top five most prominent women-led businesses. She earned a B.S. in Business Administration, with a major in Accounting, from Ohio State University.

She is on the USFSP College of Business Entrepreneurship Advisory Board; the Bank of Tampa Board of Directors; the Homeless Emergency Project Board of Directors; and the Belmont University Parents Leadership Council. She is also chair of CLEARPAC.

Judy's numerous awards include the Leadership Award from the National Association of Community Leadership; the Clearwater Chamber's Mrs. Clearwater Award; the Sam Walton Business Leader Award; the Girl Scouts Women of Distinction Award; and the Leadership Pinellas Alumni of the Year Award. She lives in Clearwater with her husband, Jeff, and their daughter, Taylor. Term expires 2019.

University of South Florida System Board of Trustees

The USF System Board of Trustees was created in 2001 and is responsible for cost-effective policy decisions appropriate to the system mission and the implementation and maintenance of high quality education programs within the laws and rules of the State. The legislature also mandated a Campus Board for each of the following USF System institutions: USF St. Petersburg and USF Sarasota-Manatee. The members of each Campus Board are appointed by the USF Board of Trustees.

The 13 trustees include distinguished figures in the law, commerce, education, health care, philanthropy and public policy leadership. Six trustees are appointed by Florida's Governor and five trustees are appointed by Florida's Board of Governors. The USF System Faculty Advisory Council President and USF System Student Advisory Council President also serve as trustees. The University of South Florida System President and President of the University of South Florida serves as Corporate Secretary.

The business of the Board of Trustees is conducted through five committees composed of Trustees. These committees focus on the University's attainment of institutional goals the Board adopted on December 6, 2001. Committees will review and recommend policies to enhance the USF System's effectiveness and efficiency in attaining these goals, and periodically will assess the effectiveness of the University in implementing the policies of the governing board.

The USF System operates with the USF Board of Trustees governance structure. The USF BOT appoints the USF System President and Chief Executive Officer, who in turn appoints the Regional Chancellors of the member institutions. The President and other System Officers are advised by three USF System Advisory Councils and the USF System Faculty Council, the principal representative governance body for the System.

More information about the USF Board of Trustees is available online at http://system.usf.edu/board-of-trustees.

Board of Trustees:

Jordan Zimmerman, Chair, is Founder, Chairman and architect of the Zimmerman Advertising Empire, the 14th largest advertising agency in the world with published billings in excess of $3 billion. He is philanthropist and advocate for many great causes within the community. Mr. Zimmerman recently donated $10 million to the USF College of Arts and Sciences, which resulted in the naming of Zimmerman School of Advertising and Mass Communications. Mr. Zimmerman was recognized in 1991 as the University of South Florida - Entrepreneur of the Year, received the 2004 South Florida Business Journal's Diamond Award, was awarded the 2007 University of South Florida Distinguished Alumnus Award, and the 2008 University of South Florida's Kappa Tau Alpha Hall of Fame Award. His Board of Trustees assignments include Vice Chair of the Board of Trustees, Chair of the Governance Committee and member of the Strategic Initiatives Committee. Mr. Zimmerman resides in Boca Raton, Florida. Term Expires: 2020.

Les Muma, Vice Chair is the retired chairman and CEO of Fiserv, Inc., a publicly traded financial industry automation products and services firm he co-founded in 1984, currently with more than 240 locations worldwide, over 23,000 employees and revenue in excess of $4 billion. Mr. Muma received a B.A. in mathematics at the University of South Florida in 1966 and an honorary doctoral degree in 2003. Fiserv was formed after a 1984 merger between Sunshine State Systems and First Data Processing, with Mr. Muma serving as the president of Sunshine and overseeing the merger after he and his team did a leveraged buyout of the organization. Having joined Sunshine in 1971, Mr. Muma retired from Fiserv in 2006, marking 35 years with the company he helped to create and guide. Together with his wife, Pam, their transformational philanthropy has left a lasting impact on their alma mater, as well as Junior Achievement of West Central Florida, Tampa General Hospital and other worthy area causes. Mr. Muma previously served on the board of the USF Foundation where he chaired the first phase ($600 million) of the

Foundation's $1 billion USF Unstoppable Campaign. Mr. Muma is also a Life Member of the USF Alumni Association, and is a leader on the College of Business Dean's Executive Advisory Board, Athletic Advisory Board and the 1956 Society; he also serves on the board of directors at FIS Global Inc., is a director and vice president of the Gold Shield Foundation, Inc., and is a past Vice Chairman and member of the Board of Directors of Tampa General Hospital. Mr. Muma's Board of Trustees assignments include the Finance Committee and the Strategic Initiatives Committee. Term Expires: 2023

Mike Carrere is the former chief executive officer of Lykes Brothers Inc. Mike started working at Lykes Bros. Inc. in 1973. He spent 21 years working at the Lykes Meat Group, ultimately managing the $400 million division of Lykes Bros. Inc. In 1994, Mike was transferred to the Lykes Corporate office where he headed the new Organization Development and Compliance Department that offered services to all business units under the Lykes umbrella. He also served as Vice President of Business Development and executive vice president of Lykes Bros. Inc. Mike serves on the Board of Directors of Lykes Bros. Inc. and previously served as a director of Northeast Bank of Clearwater, First Florida Banks, and Barnett Bank of Tampa, Krewe of Gasparilla, The American Meat Institute, Lykes-Pasco, Inc., Florida Chamber of Commerce, The University Club, Florida's Natural Growers and two terms as Commissioner of the Florida Citrus Commission. Mike received his bachelor's degree from Washington and Lee University and his advanced management degree from Duke University. His Board of Trustees assignments include the Finance Committee, the Collective Bargaining Team and the Strategic Initiatives Committee. Term Expires: 2021

Britney Deas attends the University of South Florida as a double major in political science and mass communications. Britney was born in Miami, Florida, and is of proud Haitian descent. Britney has been involved with various leadership roles on campus such as the Student Alumni Association and the Order of the Golden Brahman, USF's premier student leadership organization with a focus on promoting, preserving and protecting the university. Britney has also been involved in Student Government for the past three years, first as a volunteer and then as a two-term senator. In winning the election as the USF Study Body President, Britney made history as the first Black woman ever and first woman in over 20 years to lead the student body. Her Board of Trustees assignment includes the Academics and Campus Environment Committee.

Stephanie Goforth is President of the West Florida Region for Northern Trust. She is based out of the downtown St. Petersburg office where she is responsible for managing all aspects of the region's trust sales activities. With more than 24 years of trust, investment and banking experience, Ms. Goforth joined Northern Trust in 2005. She was most recently with Bank of America where she was a Senior Vice President, Private Client Advisor and City Executive responsible for all components of private client business in St. Petersburg. Prior to joining Bank of America in 1995, she worked with SunTrust Bank and First Florida Bank (Barnett Bank). Mrs. Goforth earned her B. A. from the University of South Florida where she majored in business management. She holds the series 7, 6, 63 and 66 licenses and is a certified financial planner. She is a current board member and Treasurer of All Children's Hospital Foundation, the CASA Board of Trustees, the Heros' of St. Petersburg Board and the St. Petersburg YMCA. She is also Past President of the Suncoaster's-Festival of States Organization. Her Board of Trustees assignments include Chair of the USF St. Petersburg Campus Board, Vice Chair of the Audit and Compliance Committee, member of the Academic and Campus Environment Committee and member of the Strategic Initiatives Committee. Mrs. Goforth is a resident of Gulfport. Term Expires: 2021.

Michael ("Mike") E. Griffin is the Tampa Market Leader for Savills, a worldwide company known for its consistent delivery of a full range of integrated real estate services across the globe. Mike joined Savills in 2015 upon its acquisition of Vertical Integration, the startup Florida-based real estate solutions firm that Mike joined upon his graduation with a Business Administration, B.S. degree from the University of South Florida in 2003. Complementing his professional experience, Mike is well-known for his civic endeavors. In 2017, Mike served as Chairman of the Greater Tampa Chamber of Commerce and was recognized as its youngest Chairman in the more than 130 year history of the organization. Mike, an Eagle Scout, serves on the Executive Board of the Greater Tampa Bay Area Council for the Boy Scouts of America. He is a graduate of Leadership Florida (Cornerstone XXVI) and in 2017 was appointed to the Tampa Port Authority/Port Tampa Governing Board.

Beyond his Chamber and civic service, Mike has made his mark at his alma mater, initially serving two terms as Student Body President and as the charter student member of USF's Board of Trustees. As an alumnus, Mike has served as the founding Chairman of USF's Financing Corporation that developed several bond financing projects for the USF System. Thereafter, Mike chaired the USF Alumni Association Board of Directos and served on the USF Foundation Board of Directors. In 2018, Mike was appointed to serve on the USF Consolidation Task Force – where he served as its Chairman – which focused on providing

implementation recommendations to consolidate USF's three campuses. His Board of Trustees assignments are Academic and Campus Environment Committee and Strategic Initiatives Committee. Term Expires: 2020.

Oscar J. Horton has a proven record of managing organizational change and improving business efficiencies, currently serving as president and CEO of Sun State International, a position he has held since January 2000. Sun State International is a full service commercial transportation organization with five locations in West Central Florida which offers commercial truck sales, an aftermarket facility providing the installation of truck bodies and body related equipment, lift gates and trailer parts, and service. The company's annual gross revenues exceed $150 million and since Mr. Horton's presidency the company has increased its revenue over 467%, making it one of the larger minority-owned businesses in Tampa Bay. Mr. Horton graduated from the University of Arkansas in 1974 and began his career as a sales representative for International Truck and Engine's Financial Corporation, rising through various positions throughout the organization. In his final role, Oscar serviced as vice president and general manager of International's foundry business. After a 25-year career with International, Mr. Horton left for his current position with Sun State International. Mr. Horton serves on the board of directors for The Bank of Tampa and is Chairman of the Board of Academy Prep Center of Tampa, and has previously been on the board of the USF Foundation. Mr. Horton's Board of Trustees assignments include the Academics and Campus Environment Committee and the Audit & Compliance Committee. Term expires: 2023

Dr. Deanna Michael is an Associate Professor and previously served as Associate Dean for the College of Education at USF St. Petersburg. Dr. Michael holds a Ph.D. from Georgia State University and is a member of the History of Education Society. She has published a book, *Jimmy Carter as Educational Policymaker* (2009). Her research involves educational policy on the federal, state, and local levels. Dr. Michael is currently a member of the USFSP Faculty Senate, the President of the USF System Faculty Council, and a member of the Academics and Campus Environment Committee. Term Expires: 2019

Harold Mullis, Esq. is President of Trenam Kemker. He is a founding Member of the firm and practice areas include mergers, acquisitions and corporate and transactional law. Mr. Mullis was a visiting lecturer at Stetson University College of Law from 1972-73. He has also served as a member of the Executive Council of the Florida Bar's Tax Section. Mr. Mullis has held numerous leadership positions in the community, including serving as Chairman of the Board of Berkeley Preparatory School, Chairman of the Board of Tampa General Hospital, the Board of Governors for the Greater Tampa Chamber of Commerce, and the Board of Governors of The LifeLink Foundation serving Florida, Georgia and Puerto Rico. In 2013, he was the recipient of the H.L. Culbreath, Jr. Profile in Leadership Award, presented by the Chamber to recognize an individual whose leadership made a positive impact on the Tampa community. In addition, he was the 2007 recipient of the University of South Florida President's Distinguished Citizen Award. Mr. Mullis received his bachelor's degree from Emory University and his J.D. from University of Virginia. He serves as chair of the Strategic Initiatives Committee, member of the Governance Committee and member of the Collective Bargaining Team. Mr. Mullis is a resident of Tampa. Term Expires: 2020.

John B. Ramil recently retired from TECO Energy where he served as president and chief executive officer. Mr. Ramil managed TECO Energy's strategy and operations, including its three major operating companies, Tampa Electric, Peoples Gas System and New Mexico Gas Co. In 2015, Mr. Ramil oversaw the $10.4 billion transaction agreement with Emera, Inc. which will make TECO part of the Top 20 North American energy leaders. At USF he has served as a director on the USF Foundation Board, the USF Alumni Board, the USF Engineering College Advisory Board and the Gus Stavros Center for Free Enterprise Education Advocacy Board. In 1999, he was named Distinguished Alumnus of USF, is the recipient of the President's Fellow Medallion and in 2016 received an Honorary Doctor of Engineering from USF. Mr. Ramil currently serves on the board of the Edison Electric Institute, an industry association, and on the boards of directors of Blue Cross and Blue Shield of Florida, the Florida Council of 100, the Moffitt Cancer Center Institute and the Tampa Bay Partnership. Previously, he served on the boards of Enterprise Florida, the Florida Chamber of Commerce, the Tampa Bay Performing Arts Center, and the Greater Tampa Chamber of Commerce. Mr. Ramil received both his bachelor's and master's degree in engineering from USF and has completed Harvard University's Advanced Management Program. His Board assignment include the Finance Committee and the Governance Committee. Mr. Ramil resides in Tampa. Term Expires: 2021.

Byron Shinn, is the President and shareholder of Shinn & Company, P.A. providing services in the areas of auditing, accounting, taxation and business consulting. His professional involvement includes Probable Cause Panel of Florida State Board of Accountancy, Past Board Member of the Florida State Board of Accountancy, and member of the Federal Tax committee of FICPA. He has been active in numerous civic and educational organizations, including the University of South Florida School of Accountancy Advisory Board, USF Sarasota-Manatee Community Leadership Council and Manatee County Chamber of Commerce. Mr. Shinn received his B.A. in Accounting from University of South Florida and is a Certified Public Accountant. His Board of Trustees assignments include Chair of the USF Sarasota – Manatee Campus Board, vice chair of the Academic and Campus Environment Committee, member of the Audit and Compliance Committee. He is a resident of Bradenton. Term Expires: 2020.

Charles Tokarz is a certified public accountant with over forty years of experience in business, finance and financial planning. Currently Mr. Tokarz is the vice president of finance for Medallion Home. Prior to that, he was a senior auditor for one of the "Big Eight" public accounting firms and owner of an accounting firm providing controller and chief financial officer services to small and medium sized private and public businesses. Mr. Tokarz is a member of the American Institute of Certified Public Accountants and the Florida Institute of Certified Public Accountants. Mr. Tokarz serves as a teaching assistant and adjunct profession at the University of Massachusetts Amherst, Florida International University and University of Miami. He received his Bachelor of Science and Master of Science in business administration degrees from the University of Massachusetts Amerherst, where he was inducted into Beta Gamma Sigma. Mr. Tokar also served four years as an air crewman with the U.S. Navy. Mr. Topaz's Board of Trustees assignments include the Finance Committee and the Strategic Committee. Term expires: 2021.

Nancy Watkins is a Certified Public Accountant with the Robert Watkins & Company where she has provided professional accounting services to a diverse range of businesses and political organizations for more than 25 years. Her professional involvements include the American Institute of Certified Public Accountants and the Florida Institute of Certified Public Accountants. In addition to her professional work as a CPA, she is a Professional Registered Parliamentarian. She is a graduate of the University of South Florida and Hillsborough Community College. Her Board of Trustees assignments include chair of the Audit & Compliance Committee, the Collective Bargaining Team and member of the Finance Committee and Governance Committee. She is a resident of Tampa. Term Expires: 2021

USF St. Petersburg Administration

Regional Chancellor   Martin Tadlock, Ph.D.
Interim Regional Vice Chancellor for Academic Affairs   Catherine Cardwell, MA, MLS
Regional Vice Chancellor for Student Affairs and Student Success   Patricia Helton, Ph.D.
Regional Vice Chancellor for Advancement   Deborah Read
Interim Regional Vice Chancellor for Administration and Finance Nick Setteducato, MBA
Regional Vice Chancellor for External Affairs   Helen Levine, Ph.D.
Regional Assistant Vice Chancellor for Enrollment, Planning
  and Management   Shari Schwartz
Campus Diversity Officers   Michelle Madden, Ph.D.
Dean, College of Arts and Sciences   Magali Cornier Michael, Ph.D.
Dean, Kate Tiedemann College of Business   Sridhar Sundaram, D.B.A.
Interim Associate Dean, College of Education   Brenda L Walker, Ph.D.
Dean, Nelson Poynter Memorial Library   Catherine Cardwell, MA, MLS
Regional Assistant Vice Chancellor, Student Affairs & Dean of Students Jacob Diaz, Ph.D.

Office of Graduate Studies	Phone Number
Reception	(727) 873-4567
Director, Donna Knudsen	(727) 873-4450
Assistant Director, Michael Slattery	(727) 873-4479
Office Manager, Lisa Akins	(727) 873-4884
Nicki Hannum	(727) 873-4283
Karen Callahan	(727) 873-4217
Marketa Teal	(727) 873-4770
Graduate Programs Contacts	**Phone Number**
College of Arts & Sciences	
Conservation Biology (MS)	
Graduate Program Advisor: Dr. Sean Doody	(727) 873-4207
Environmental Science & Policy (MS and MA)	
Program Contact: Dr. Susan Toler, Assoc. Dean, Arts & Sciences	(727) 873-4482
Master of Liberal Arts – Focused and Interdisciplinary (MLA)	
Graduate Program Advisor: Dr. Jill McCracken	(727) 873-4740
Master of Liberal Arts – Florida Studies (MLA)	
Graduate Program Advisor: Dr. Christopher Meindl	(727) 873-4961
Journalism and Media Studies (MA)	
Graduate Program Advisor: Dr. Monica Ancu	(727) 873-4736
Digital Journalism and Design (MA)	
Graduate Program Advisor: Dr. Monica Ancu	(727) 873-4736
Psychology (MA)	
Graduate Program Advisor: Dr. Tiffany Chenneville	(727) 873-4585
Kate Tiedemann College of Business	
Director, Graduate and Executive Programs, Eric Douthirt	(727) 873-4MBA
Advising, Lisa Vanover	(727) 873-4749
Business Administration (MBA)	
Graduate Faculty Advisor: Dr. Richard Smith	(727) 873-4943
Accountancy (MAcc)	
Graduate Faculty Advisor: Dr. Maria T. Caban-Garcia	(727) 873-4561

College of Education	
College of Education Advising (all programs): Amanda Tompkins	(727) 873-4051
Educational Leadership **(M.Ed.)**	
Graduate Faculty Advisor: Dr. Charles Vanover	(727) 873-4620
Elementary Education: Dual Track and Curriculum & Literacy **(MA)**	
Graduate Faculty Advisor: Dr. Deanna Michael	(727) 873-4577
Elementary Education: Emphasis: Math/Science	
Graduate Faculty Advisor: Dr. David Rosengrant	(727) 873-4644
English Education **(MA)**	
Graduate Faculty Advisor: Amanda Tompkins	(727) 873-4051
Reading Education **(MA)**	
Graduate Faculty Advisor: Amanda Tompkins	(727) 873-4051
Teaching of Middle Grades STEM Education **(MS)**	
Graduate Faculty Advisor: Dr. David Rosengrant	(727) 873-4644
Varying Exceptionalities w/ESO: (Special Education) **(MA)**	
Graduate Faculty Advisor: Dr. Lyman Dukes	(727) 873-4054

Section 2 – USF St. Petersburg Mission, Values, Vision and Goals

Mission
Inspire scholars to lead lives of impact.

Core Values
Student-Centered Success. We provide a personalized experience for every student. We will grow by design to sustain academic programs that prepare our graduate and undergraduate students for work and life while retaining our intimate learning environment.

Research and Innovation. Our faculty members conduct nationally and internationally known research and scholarship. Faculty members convert individual and collaborative efforts into new knowledge to improve lives far beyond our campus and community.

Inclusion of Differences. We seek divergent voices and to tell untold stories. We actively recruit students, faculty, staff and administrators who bring global and domestic diversity to campus, with an emphasis on representing our evolving regional demographics. We notice where conception differences synthesize, complement or clash. In classes, in meetings and public forums, we invite difficult dialogues to enable everyone to better understand different world views. We strive to create synergy.

Commitment to Community. USF St. Petersburg connects seamlessly to St. Petersburg and the surrounding region. Our students enroll in the city as well as USFSP, bringing to the city the exuberance that only a residential campus culture can provide. Our community-based partners and mentors multiply opportunities for students and challenge faculty and administrators to recognize new areas for innovation and exploration. Together we shine.

Care for Natural Environment. We celebrate our organic connection to the waterfront and cityscape. Through study and service, we serve as stewards for the plants, animals and systems that sustain us. We take seriously our commitment to becoming carbon neutral.

Vision
USF St. Petersburg will shine. USF St. Petersburg faculty and administrators will work shoulder to shoulder with students and community partners to build a better world. We will challenge ourselves to excel in research, teaching and service.

Strategic Planning Bold Goals

Distinctive Identity. USFSP is a dynamic research university that offers world-class academics and personalized real-world experience in a culturally vibrant, urban, waterfront community.

Student Success and Culture. USFSP student success is at the heart of all we do. Students progress through world-class academic experiences, hands-on research and excellent teaching on their way to graduation.

Faculty Excellence, Scholarship and Research
Our distinguished faculty are recognized locally, nationally and around the world for their excellence in research and scholarship.

Strategic Partnerships
USFSP identifies, establishes, and maintains partnerships that are sustained, deliberate, and strategically integrated with our degree programs and research efforts.

Infrastructure
Planned growth by design supports a projected student enrollment of 10,000 by 2024. USFSP strives to provide the human capital, facilities, communication systems, staff, faculty and student support needed for our current campus to implement strategic growth.

Sustainable Funding
USFSP ensures its financial stability through a variety of sources, including state funding, diversifying student profiles, philanthropy, entrepreneurial initiatives and external research sources.

Accreditation

SACS-COC
The University of South Florida St. Petersburg is accredited by the Commission on Colleges of the [Southern Association of Colleges and Schools](#) to award degrees at the baccalaureate and master's levels. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 40044-4097 or call 404-679-4500 for questions about the accreditation of the University of South Florida St. Petersburg.

AACSB
The Kate Tiedemann College of Business is accredited by [AACSB International](#) – the Association to Advance Collegiate Schools of Business in both business and accounting. AACSB International is the premier accrediting agency for bachelor's, master's, and doctoral degree programs in business administration and accounting, and as such is the most widely-recognized and sought-after endorsement of business schools. Less than one-third of U.S. business school programs and only 15 percent of business school programs worldwide meet the rigorous standards for AACSB accreditation.

NCATE
The College of Education is accredited under the [National Council for Accreditation of Teacher Education](#) (NCATE) Standards, through the [Council for the Accreditation of Educator Preparation](#) (CAEP) accreditation system. Formed in 2013, CAEP is the single specialized accreditor for educator preparation, and administers NCATE accreditation.

ACEJMC
The Department of Journalism and Digital Communication at USF St. Petersburg is one of 115 journalism programs nationally accredited by the Accrediting Council for Education in Journalism and Mass Communications. ACEJMC is the national accrediting body for professional programs in journalism and mass communications. Journalism and Digital Communications (first founded in 1991 as Journalism and Media Studies), was received its initial accreditation for both its undergraduate and graduate programs in 2004, and was reaccredited for seven more years in 2010. About 25 percent of all journalism and mass communications programs in the United States are fully accredited. A far smaller percentage of programs are accredited at both the undergraduate and master's level.

Section 3 – Graduate Admissions

- [University Admissions Criteria and Policies](#)
- [Admission Requirements](#)
- [Reinstatement and Re-application for Admission Policies](#)
- [Change of Graduate Major](#)
- [Students with Disabilities Policy](#)

Graduate Admissions

University of South Florida St. Petersburg
Office of Graduate Studies
140 Seventh Avenue South – PNM
St. Petersburg, FL 44702
Website: http://www.usfsp.edu/grad
Phone: (727) 873-4567
Fax: (727) 873-4889
E-mail: applygrad@usfsp.edu

Assistant Director: Michael Slattery
Admissions Evaluator: Nicki Hannum

University Admissions Criteria and Policies

USF Regulation USF3-008: http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.008.pdf

Statement of Principles

In graduate admission decisions, multiple sources of information should be used to ensure fairness, promote diversity and balance the limitations of any single measure of knowledge, skills, or abilities. The sources may include: undergraduate grade point average, letters of recommendation, personal statements, samples of academic work, portfolios, auditions, professional experience related to proposed graduate study, as well as nationally known, standardized test scores. It is the responsibility of each graduate major to select admissions criteria that best predict success in their specific field and to determine the weight given to each measure. Graduate programs have the option of admitting students without all required components of the specified admission requirements for the major, if items submitted from the student confirm a likelihood for success in the graduate major.

None of the sources of information, particularly standardized test scores, should be used in isolation nor should such scores be used in combination or separately to establish minimum or "cut off" scores. Major specific guidelines for the use of standardized test scores should be developed based on the experience of a given department with its pool of applicants. (*Adapted from the GRE "Guide to the Use of Scores" 2003-2003*)

Admission Requirements

Each applicant to a graduate degree program at the University of South Florida is required to meet the following minimum requirements:

1. An applicant must have **one** of the following (a, b, or c):
    a. A bachelor's degree from a regionally accredited institution and satisfying at least one of the following criteria:
        i. "B" average (3.00 on a 4.00 scale) or better in all work attempted while registered as an undergraduate student working for a degree, **or**
        ii. "B" average (3.00 on a 4.00 scale) or better in all work attempted while registered as a graduate student working for a graduate degree.
    b. A bachelor's degree with a "B" average or better from a regionally accredited institution and a previous graduate degree with a "B" average or better from a regionally accredited institution. In cases where an applicant has a bachelor's and a graduate degree at the time of admission, the credentials and GPA of the graduate degree will be the determining factor for admission.
    c. The equivalent bachelors and/or graduate degrees from a foreign institution. Bachelor's degrees from institutions in the European Higher Education Area (EHEA) are considered equivalent based on the Bologna Accord. For applicants with a 3-year Bachelor's Degree with less than 120 hours, from Non-Bologna Accord Institutions, a transcript evaluation from a NACES member is required to confirm equivalency.
2. Submission of standardized test scores if required by the graduate degree program. For Graduate Majors that require the GRE, the Personal Potential Index (PPI) may be required. Refer to individual major admission requirements for information.
3. Applicants from countries where English is not the official language must also demonstrate proficiency in English* as outlined in the section on English Proficiency. Applicants who earn a baccalaureate or equivalent degree at a foreign institution where English is the language of instruction (for the institution and not just the major) may meet this requirement. However, other related factors (including test scores) will also be considered. Medium of Instruction must be documented on the transcript or on an official Certificate of Medium of Instruction from the Institution
4. All specific and additional requirements of the graduate major to which admission is sought (including requirements to submit standardized test scores) consistent with the above Statement of Principles.

The Department Chair and College Dean must approve any exceptions to these requirements before they will be considered by the Office of Graduate Studies. The reason for the waiver and related documentation must be included on the Graduate Application Referral form.

International students who are seeking employment as a teaching assistant (in departments that offer them) must meet additional English Language Requirements.

Application Process (How it works)

Graduate applicants are urged to submit accurate and complete information **as early as possible**. Applications and supporting documents received after the application deadline will only be acted upon at the discretion of the graduate major. They will be kept on file for up to one year. At the request of the applicant or graduate major, they will be processed for the next available term.

The Graduate Admissions Office and the Graduate Department review your application for admission to graduate study at USF. Once the Graduate Department reviews your eligibility for its graduate major they will forward their decision to the Graduate Admissions Office which, in turn, will issue the official decision.

If you are a foreign graduate applicant, the International Services Office (http://global.usf.edu/is/) will evaluate your financial and immigration documents after you are admitted to determine your eligibility for a student visa. Your financial statement must be dated within 12 months of the starting the degree program. Each of these offices may request additional documents from you to make a decision.

For a complete list of graduate majors and deadline dates please visit the Office of Graduate Studies website at http://www.grad.usf.edu/programs.php

Graduate Admission Application Deadlines

MASTER'S AND EDUCATION SPECIALIST DEGREES	Admission for Fall Semester	Admission for Spring Semester	Admission for Summer Semester
• Applications received by the Priority Deadline will receive maximum consideration. • Applications received after the Priority deadline, but by the Final University Deadline, are considered on a space available basis. • Applications must be complete with all required information by the stated deadline. Any application <u>materials</u> received after the deadline may be reviewed on a space-available basis. Check with the Graduate Major Director for availability or to discuss options for admission in a subsequent term.			
Priority Deadline (for funding and consideration)	Refer to Specific Major	Refer to Specific Major	Refer to Specific Major
Final University Deadline Domestic Applicants	June 1	October 15	February 15
Final University Deadline International Applicants	June 1	October 15	February 15

Additional Requirements for International Applicants

In addition to meeting the published application deadline for the Major of interest, all immigration documents should be submitted as soon as possible, but must be on file at USF no later than the deadlines listed above. Foreign applicants who are outside the U.S. are required to apply for a visa. Depending on the country of origin, this may take a few months. So the deadlines for these international applicants may be earlier than the deadline for the Major and these applicants must apply no later than the posted International deadline. They are strongly encouraged to apply as early as possible. Foreign applicants who are in the U.S. and are currently on a visa may use the domestic application deadline dates.

Application Checklist (To-Do-List)

To assist you in the admissions process the following is your *To-Do-List*. To expedite the processing of your application please upload a copy of all of your supporting documents when you submit your application on line. You will also need to send official transcripts and test scores. If you are admitted to a graduate major.

1. Fill out the Graduate Application on line and upload all supporting documents
2. List all post-secondary institutions you have attended on the application
3. Pay the Application Fee
4. Upload through the online application a copy of transcripts of all prior post-secondary courses taken (including translations and evaluations for international transcripts). If you are admitted, you must ALSO have official and final transcripts sent to the Office of Admissions.
5. Upload through the online application a copy of your test score reports. If you are admitted, you must also have official Test Scores sent to USF
6. Review and respond to Conduct Clearance Policy (Legal Disclosure Statement)
7. Review Florida Residency Policy for Tuition Purposes and provide documents, if needed

1. Graduate Application: https://secure.vzcollegeapp.com/usf/

Applicants should also check with the Graduate Major to determine if they require any additional, supporting documents beyond the ones listed here. Admission requirements may be found in the Major listing in the Catalog. Applicants should upload a copy of each supporting document required by the major through the on-line application when it is submitted. However, they may upload additional documents after the application has been submitted. For instruction on uploading, go to http://www.usf.edu/admissions/documents/how-to-upload-grad-adm-docs.pdf

2. Application Fee:

All applicants are required to submit an application fee of $30.00 USD for admission to the University of South Florida. Students may apply for multiple majors, with only one application fee being required per every 12 month period from the date of initial application. (USF Regulation USF4-0107: Fees, Fines and Penalties http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0107.pdf. If you attended USF as a former degree seeking student or non-degree student then you will also be required to submit the application fee. Applicants have the option to pay their application fee by credit card (Master Card or Visa issued from a U.S. bank), by E-Check (personal checking/savings account issued from a U.S. bank), or through Flywire through the Graduate Online Application. The Online Graduate Application will not be processed if the application fee is not paid. ALL APPLICATION FEES SUBMITTED ARE NON-REFUNDABLE.

3. Transcripts:

One (1) complete official transcript from all institutions of higher learning attended by the applicant is required of all students who are admitted and matriculate at USF (reference USF Policy 10-044). At least one transcript must show that the bachelor's degree was completed prior to the start of the graduate major at USF. Former USF students should not submit their USF transcript; it is already on file. However, they must list USF as a post-secondary institution on the application. Applicants should upload copies of all other transcripts to expedite the processing of their applications. These uploaded transcripts are considered unofficial.

Please upload them through the on-line application. Any offer of admission based on unofficial transcripts is considered "provisional" and **will not** be finalized until official transcripts are received in a sealed envelope from the Office of the Registrar where the applicant attended. All transcripts must be in English; International applicants must submit original language transcripts and a certified English translation. It is the applicant's responsibility to have transcripts translated and evaluated* before submitting them as part of the graduate application packet. If they are applying while still completing an undergraduate degree, they must submit transcripts of at least six (6) semesters of completed undergraduate work.

*All foreign transcripts that are not in English must be accompanied by a certified English translation. Documents signed by a notary or other public official with no affiliation to the institution of higher learning will **not** be accepted. Some graduate majors require a **course-by-course** evaluation. In the event that the university receives documentation that is questionable, or suspicious in any way, the university will require the applicant to obtain a course-by-course evaluation from a foreign transcript evaluation service. Refer to the Graduate Admissions' website for a list of evaluation services (http://www.usf.edu/admissions/graduate/application-requirements/transcripts-foreign.aspx)

Bologna Process – Applications from the European Higher Education Area

USF accepts applications from prospective graduate students with undergraduate degrees from countries that subscribe to the Bologna Process. Applicants with three-year degrees from universities in the European Higher Education Area (EHEA) may be considered for admission to graduate majors, at the discretion of the Department (or equivalent) and College that offer the Major and with the approval of the Office of Graduate Studies, under the following condition:

Official documentation is presented to demonstrate that a three-year degree (at least 180 ECTS) has been awarded prior to USF matriculation by an institution within the European Higher Education Area (EHEA), defined by the Bologna Declaration of 1999. Where applicable, diploma supplements should be included with transcripts and other documents required to demonstrate degree completion. An up-to-date, official listing of Bologna signatory countries may be found at www.ehea.info.

Non-Bologna Institutions

Transcripts for applicants from non-Bologna Accord Institutions must be accompanied by an evaluation of the bachelor's degree by an independent third-party member of the National Association of Credential Evaluation Services (NACES). Confirmation of the baccalaureate degree as equivalent is required and will be jointly determined by relevant major faculty, the Office of Admissions, and the Office of Graduate Studies.

4. Test Scores

GRE (Graduate Record Examination)*: http://www.gre.org

Applicants to graduate majors requiring the GRE must submit GRE test scores earned within five (5) years of the desired term of entry. Official scores must be submitted to USF directly from the Educational Testing Service, but applicants should upload with the application unofficial copies of their test scores to expedite the processing of their applications. Any offer of admission based on unofficial

scores is considered "provisional" and will not be finalized until official scores from ETS are received. The institution code for USF is 5828 and applies to all tests administered by ETS.

The GRE requirement is determined by the individual graduate majors. Please contact your major of interest directly for additional information. **Editor's Note: GRE has a new score scale; scores listed on the Major pages in this catalog may reflect the old scale.** *Refer to the GRE Concordance Tables to see how the scores compare.* http://www.ets.org/s/gre/pdf/gre_guide.pdf *or* http://www.ets.org/s/gre/pdf/concordance_information.pdf

GMAT (Graduate Management Aptitude Test): http://www.gmac.com/gmat.aspx

Applicants to majors in the Muma College of Business should submit GMAT** scores earned within five (5) years of the desired term of entry. Official scores must be submitted to USF directly from the Pearson VUE Testing Service, but applicants may provide unofficial copies of their test scores to expedite the processing of their applications. Any offer of admission based on unofficial scores is considered "provisional" and will not be finalized until official scores from Pearson VUE are received. The following are the Pearson VUE institution codes for USF majors.

VP9-M4-25 M.B.A., USF St. Petersburg
VP9-M4-18 Masters in Accountancy

** Applicants may not have to submit a GMAT if they have taken the GRE. Please contact the major of interest directly for additional information.

MCAT

For those majors that may require or accept the MCAT, the test typically must be taken with the last five (5) years; check with the Graduate Major for specific requirements

English Proficiency

Applicants whose native language is not English must demonstrate proficiency in English by submitting acceptable scores on one of the English proficiency tests listed below. Scores must have been earned within two (2) years of the desired term of entry. Applications submitted with English proficiency scores that do not meet the minimum requirements will be denied.

Note – the following test scores are for the purposes of Admissions and do not demonstrate English Proficiency for Teaching Assistant (TA) positions. For eligibility as a Teaching Assistant (TA), go to: https://www.usf.edu/graduate-studies/funding/graduate-assistantships-resource-center-graduate-assistant-eligibility.aspx .

a. Test of English as a Foreign Language (TOEFL iBT)	79 or higher
b. International English Language Testing System (IELTS)	6.5 or higher
c. INTO English Language Assessment (IELA)	176 or higher (with minimum sub scores of 169)
d. Cambridge English First (FCE)	176 or higher (with minimum sub scores of 169)
e. Pearson Test of English Academic (PTE-A)	53 or higher

f. GRE Exam Verbal Score   153 or higher

By successfully completing INTO USF's Academic English Program Level 6 or the following INTO USF courses: EAP 1850 and EAP 1852 with a Satisfactory grade.

* Proof of English proficiency (additional documentation or exam scores) may be requested based upon information provided in the application.

English Proficiency Exemptions

A student may qualify for an exemption from taking an English Proficiency Examination for the purpose of Admissions if one of the following criteria is met:

- Native speaker of English. (List of English Speaking Countries: https://www.usf.edu/admissions/graduate/admission-information/english-speaking-countries.aspx)
  Earned a baccalaureate or higher degree at a regionally accredited institution in the United States.
- Successfully completing INTO USF's Academic English Program Level 6 or the following INTO USF courses: EAP 1850 and EAP 1851 with a Satisfactory grade.
- Earned a baccalaureate degree or higher at a foreign institution where English is the language of instruction (for the institution and not just the major) may meet this requirement. However, other related factors (including test scores) will also be considered. Medium of Instruction must be documented on the transcript and on an official Certificate of Medium of Instruction from the Institution.

English Proficiency for Assistantship Eligibility

International students from countries from predominantly English-Speaking Countries who want to be considered for a teaching assistantship must show proficiency in spoken English even if their English proficiency examination requirement has been waived for admission to a graduate program.

PLEASE NOTE: International students from countries other than those listed in Appendix C of the *Policy on Spoken English Proficiency for Graduate Teaching Assistants/Associates/Graduate Instructional Assistants* (http://www.grad.usf.edu/International_Teaching_Assistants_Handbook.php) who want to be considered for a teaching assistantship must show proficiency in spoken English even if their TOEFL has been waived or accepted for admission to a graduate major. They need a minimum score of 26 on the spoken portion of the Internet-based TOEFL (iBT) or 160 on the spoken portion of the TOEIC test administered by ETS http://www.ets.org/toeic.

Please reference http://www.usf.edu/admissions/international/graduate/requirements-deadlines/english-proficiency.aspx for more information on language requirements.

5. Conduct Clearance Policy (Legal Disclosure Statement): All graduate applicants are required to answer the Conduct Clearance questions of the graduate application. The applicant will not be notified of the admission decision until answers to the two questions have been received. Applicants who meet

the criteria for disclosure must provide specified documents and be reviewed by the Vice President of Student Affairs or his/her designee, if warranted.

6. Florida Residency Policy: Graduate students are typically considered "independent" for tuition purposes. Applicants desiring classification as Florida residents for tuition paying purposes must sign and complete the Florida Residents section of the Florida Residency Classification page of the Graduate Application. **Incomplete or unsigned forms will be classified as non-Florida residents.** The Office of Graduate Admissions will classify applicants as Florida residents if they have provided a minimum of two forms of documentation that verifies they began living in Florida at least twelve months prior to the first day of classes of their admitted term of entry. Additional documentation other than what is required may be requested in some cases. All documentation is subject to verification. For assistance with residency questions contact gradadmissions@usf.edu

Students are responsible for checking their residency classification when admitted to the University of South Florida. The residency classification is noted on the official acceptance letter. If students feel that their initial classification is in error, they have until the last day of the term to contact the appropriate admissions office and request a re-evaluation. After students have completed their first semester of study they may still seek to have their residency reconsidered; however, they must then submit a Request for Reclassification Form with the Office of the Registrar. This must be filed by the 5th day of classes for the term being requested. For more information in on Residency refer to: Independent Student: the Registrar's webpage. For information on reclassification go to http://www.registrar.usf.edu/Residency/Deadlines.php

Application Documents Access/Forward/Return Policy

No application, test scores, transcripts, letters of recommendations, or other documents submitted with the application packet will be returned to the applicant or forwarded to another institution/third party. The Office of Graduate Admissions applicant file is not to be released to the applicant or other third parties. Requests, subpoenas, or court orders are to be forwarded to the Office of the General Counsel after review by the Assistant Director of Graduate Admissions. Applicants once admitted and enrolled during the term of admission may request access to their student file at the Office of the Registrar. Letters of Recommendation that the applicant has waived the right to view (indicated on Request for Recommendation Form) are not to be given, copied or viewed by the applicant or third parties. Requests for degree/enrollment verification information should be referred to the Office of the Registrar.

The Office of Graduate Admissions graduate application files may be copied and released to USF staff conducting legitimate University business.

Additional Requirements of Majors (If applicable)

Many majors require additional application materials such as resumes, writing samples, or letters of recommendation. These items should be uploaded through the online application. Check with the graduate major to see if you should also send the paper documents directly to the appropriate department/major. These materials will be available electronically to the appropriate major if sent with the application packet.

Final Admission Classification

Applicants accepted for admission whose final, official documents (transcripts and/or test scores) have been received by the Office of Graduate Admissions are admitted as "Final." The admission file is complete.

Provisional Admission Classification

Applicants accepted for admission whose final, official documents (e.g. transcripts) have not been received by the Office of Graduate Admissions are admitted provisionally pending receipt of these missing items. The final, official transcripts documenting completion of the required degree prior to the start of graduate study at USF must be received before a second semester registration is permitted. During the first semester, the Office of Graduate Admissions will place a registration hold on the student's file. When the missing documents are provided to the Office of Graduate Admissions the registration hold will be removed.

Exception Admission Classification

The University may admit new enrollees as exceptions to the Board of Trustees minimum requirements and/or to the admission requirements for the Major. To be considered for an exception, applicants should present evidence that might account for the previous academic record and demonstrate potential for academic success. Examples of this evidence include excellent letters of recommendation from trusted academicians, performance in graduate courses taken as a post-bachelor's student, professional experience in the discipline for a period of time, etc. Each request for an exception must include a statement describing the special circumstances of the applicant and a brief justification for the exception. It is the discretion of the Major, College, and Office of Graduate Studies to accept exception application requests.

Conditional Admission Criteria

A major and/or college may admit students conditionally in anticipation of the applicant's successful completion of additional requirements separate from University minimum requirements. These conditions may include attendance in specific core or remedial courses and/or a specific earned GPA for those courses. Failure to satisfy those conditions by the deadline established by the major will result in academic dismissal from the major. The College/Graduate Major will submit a Dismissal Form (http://www.grad.usf.edu/student-forms.php) to the Office of Graduate Studies to initiate dismissal

Deferment of Admission Request

An applicant's acceptance is granted for the semester and the particular major specified in the official acceptance notification. In order to validate that acceptance, the applicant must enroll for that semester. Applicants who do not validate their admission may contact the Graduate Director and request a Deferment of Admission. This request must be made in writing within 12 months of the initial requested entry date and prior to the major's application deadline for the new term. If a request for Deferment of Admission is not activated within the 12 months, a new application and fee must be submitted for future consideration.

Applicants who were admitted provisionally upon receipt of official test scores and/or transcripts must supply those missing items prior to having their deferment decision processed by the Office of Graduate Admissions. International applicants must also provide a new financial statement dated no earlier than 12 months before the requested date of entry.

Special exemption to this policy may be granted to active duty U.S. military personnel who receive military orders that prevent them from beginning a graduate major during the requested term. These applicants may have their admission honored for up to 2 years, pending approval from their academic major, and proper documentation of their deployment. These extensions would be granted on a case-by-case basis.

Update of Admission Request

If an admission decision has not been offered and the applicant wants to be considered for a future semester, the applicant must request that the Office of Graduate Admissions update the application and specify the new enrollment date. This request must be made in writing within 12 months of the initial requested entry date and must be received no later than the major's application deadline for the semester desired. Applications are held for only 12 months. If a request for change in entry date is not received in the specified time, a new application and fee must be submitted. The Office of Graduate Admissions will not process any update requests without first receiving all official transcripts and required test scores.

Denial of Admission / Appeal for Reconsideration Criteria

Applicants denied admission will be given timely notice by email or postal service. Denied applicants who meet the minimum standards may request reconsideration in writing to the Graduate Director of the major to which they applied. This must be done within 30 days of the date of denial. The request should present additional evidence of potential for academic success at USF and contain reasons why reconsideration is warranted. Applicants denied admission to a major are eligible to apply as a non-degree seeking student and enroll as special (non-degree seeking) students, although course selection restrictions may apply. Non-degree applications must be submitted online to the Office of the Registrar.

Activation of Admission

An applicant's acceptance is granted for the semester and the particular major specified in the official acceptance notification. In order to validate the acceptance, the applicant must enroll for that semester. Applicants who do not validate their admission may contact the Graduate Director and request a Deferment of Admission. This request must be made in writing within 12 months of the initial requested entry date and before the major's application deadline for the new term. If a request for Deferment of Admission is not activated within the 12 months, a new application and fee must be submitted for future consideration.

Reinstatement and Re-application for Admission Policies

A graduate student who is not registered and enrolled for a minimum of six (6) credits in a 12-month period is automatically placed in inactive status (refer to the Continuous Enrollment Policy for more information). Students who wish to continue their studies must be reinstated or re-apply for admission to the major. Both of these are at the discretion of the Major and are not guaranteed. These policies do

not apply to students who have been academically dismissed from the University for Academic Dishonesty.

Reinstatement

For students who the Major anticipates will complete their degree within their original time limit:

- Students must apply for reinstatement using the *Graduate Major Reinstatement Form*.
- Students who were on academic probation during their last enrollment should consult the Academic Probation Policy for guidance on requirements. Probation will resume on reinstatement.
- Students who are reinstated may choose the original or any subsequent Graduate Catalog
- Students must enroll for a minimum of six hours graduate credit in their first semester of re-enrollment.

For students who will exceed their time limit for degree completion, but will not be affected by course currency issues (i.e. will finish within ten years of initial admission date in the graduate major)

- Students must apply for reinstatement using the *Graduate Major Reinstatement Form* and also submit the *Time Limit Extension Request*, including benchmark information.
- Students who were on academic probation during their last enrollment should consult the Academic Probation Policy for guidance on requirements. Probation will resume on reinstatement.
- Students who are reinstated may choose the original or any subsequent Graduate Catalog.
- Students must enroll for a minimum of six hours graduate credit in their first semester of re-enrollment.
- Students who have been Academically Dismissed from the University for Academic Dishonesty may not apply to any graduate major at USF.

Re-application for Admission

Students who have exceeded their time limit for degree completion and/or course currency limits (i.e. ten years from their initial admission date in the graduate major) must re-apply for admission. This will require completion of all degree requirements as posted in the Graduate Catalog in effect at the semester of admission, including such elements as comprehensive exams, thesis/dissertation hours. The Major should evaluate the student's transcript to determine if any of the previous coursework may be transferred in as part of the admission process (note: only structured courses may be considered for transfer – see [Transfer of Credit](#) Policy). This will require documentation of course currency through a syllabus-by-syllabus comparison.

To be admitted, the application and all supporting materials must be submitted by the Major's posted application deadline as noted in the Graduate Catalog. These materials include:

- **Graduate Application:** to re-apply for admission, students must submit a new graduate application, application fee, and any required supporting materials by the application deadline for the major.
- **Admission Requirements:** Students must meet the Admission Requirements posted in the Graduate Catalog for the Major to which they are reapplying.

- **Catalog Year:** Students who are readmitted must meet the admission standards and degree requirements and policies in the Graduate Catalog in effect at the time of readmission.
- **Prior Coursework taken at USF:** Coursework taken at USF prior to readmission may be accepted toward the degree requirements at the discretion of the Department. Refer to the Course Currency Policy for time limits on coursework applied toward the degree. Students will be required to take new coursework.
- **Enrollment:** A decision to readmit is only applicable to the semester for which it was offered. Students who do not enroll for that term will have to resubmit an application for any future semester.

Change of Graduate Major

A change of graduate major allows a student to withdraw from his/her current graduate major and enter into a different graduate major. A change of graduate major:

- will NOT be considered for graduate students in their first semester of study
- is permissible only for a continuing graduate student enrolled for study in a particular major who wishes change to another major at the same or lower degree level
- requires a student to be in good academic standing
- is up to the discretion of the student's new major (note: some majors may require another admission application to be submitted and reviewed)
- may affect the student's financial aid status
- is eligible for Academic Renewal of grades for courses taken in the previousmajor (Refer to the Academic Renewal Policy for information)
- restarts the time limit with the admission to the new graduate major.
- requires the submission of a Change of Graduate Major Application and approval by the Office of Graduate Studies
- requires students to meet all requirements of the new Major as specified in the USF Graduate Catalog of their choice as per the Graduate Catalog policy. See policy for full information and restrictions.

* Students not in good academic standing must consult with the Office of Graduate Studies prior to initiating a Change of Graduate Major Application. Students who have less than a 3.00 as required to be in good standing may still be considered for a change of graduate major if the new graduate major is willing to accept them into the degree program.

Students may view the procedures and obtain the Change of Graduate Major Application at http://www.grad.usf.edu/inc/linked-files/GRADUATE_SCHOOL_Chg_of_Program_Application.pdf. Students must consult with the new major and Office of Graduate Studies before completing any paperwork.

Students with Disabilities Policy

Applicants with disabilities apply for admission under the same guidelines as other applicants. Applicants believing that a disability has had an impact on grades, course choice, or standardized admission test scores, should request consideration of this during the admissions process. Applicants requesting substitution of departmental guidelines will need to contact the appropriate department

chairperson. Please submit supporting documentation when requesting a disability exception. Applicants bear the responsibility for providing documentation of their disabilities.

The University reviews documentation and determines if students are eligible for services and accommodations because of disabilities. The Office of Student Disability Services is charged with the task of determining eligibility. Accommodations and services are not provided on a retroactive basis. Approval must be given prior to receiving services or accommodations. The process begins when students provide documentation of disability and meet with a coordinator in the Office of Student Disability Services to request in writing services and accommodations. Any faculty members or students who have questions about this process are encouraged to contact the Office of Student Disability Services at (813) 974-4309 or visit the website at http://www.sds.usf.edu/
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Section 4 – Registration and General Information

Parking Information and Campus Maps
For information on USFSP Parking Services, policies, and regulations, refer to:

USFSP Parking website: https://www.usfsp.edu/administrative-and-financial-services/parking-transportation/

Campus Maps: https://www.usfsp.edu/visit/files/2019/07/20190710_-USFSP-CAMPUS-MAP.pdf

Office of Records and Registration
Phone: (727) 873-4678
Fax: (727) USF-4329
Website: http://www.usfsp.edu/registrar/

The Office of Records and Registration at USF St. Petersburg maintains the official academic records for all students and course registrations for currently enrolled students. Students are encouraged to contact the Office of Records and Registration with general questions concerning academic policies and procedures regarding their current registration or academic record. Note: It is each student's responsibility to be aware of the University's academic policies and procedures and how they affect him/her.

OASIS
Students use a self-selected personal identification number (PIN) in the University's Online Access Student Information System (OASIS) to:
- view registration appointment information
- view registration hold information
- view the Schedule of Classes
- view financial aid information

- view and pay bills online
- register and drop/add courses during the drop/add period
- view their grades
- request address changes
- request privacy
- request transcripts
- apply to graduate

Registration Information

USF Regulation USF4-0101,
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0101.pdf

Register for Classes

To register for classes, students must first login to the MyUSF portal using their net id and password (http://netid.usf.edu/una) and choose OASIS from the resources menu. Current course offerings and registration requirements are listed in the Schedule of Classes. Note that some courses may require permits from the graduate program for registration. Students can view the schedule of classes through OASIS.

> OASIS: http://usfonline.admin.usf.edu
> Schedule: https://www.usfsp.edu/register/

Late Registration

Degree seeking students who do not register prior to the first day of classes may late-register during the first week of classes. A late registration fee is charged during this week. To avoid cancelation of registration, fees and tuition are due and payable for all registered courses of record on the fifth day of classes (end of drop/add period.)

Students are responsible for verifying the accuracy of their course registration by the end of the drop/add period (i.e. by the fifth day of classes). In the event there are courses incorrectly listed or missing on the record, students should go into OASIS and make the necessary corrections. Course registration not corrected by the fifth day of classes will result in liability of tuition and fees. If courses need to be added or dropped after the fifth day of classes, refer to the Add/Drop section of the catalog.

Medical Requirements for Registration

University Immunization Policy, USF Regulation USF33-002:
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-33-002-pdf
Forms: http://www.usf.edu/student-affairs/student-health-services/immunizations/index.aspx

Student Health Services is charged with the responsibility of evaluating and maintaining medical requirements for registration for all students at all institutions within the USF system.

Florida law (Section 1006.69 Florida Statute) requires that all admitted Florida university students be aware of MENINGOCOCCAL MENINGITIS and HEPITITIS B, two diseases that may be prevented by vaccination. The vaccines for each of these diseases are available at Student Health Services (with locations at both USF Tampa and USF St. Petersburg.) Please refer to http://www.shs.usf.edu/immunizations/aspx for further information. In addition, students residing in on-campus housing must present proof of vaccination against HEPATITIS B or sign a declination of HEPATITIS B proof.

According to Florida Administrative Code Rule 6C-6.001(5) "Each student accepted for admission shall, prior to registration, submit on a form, provided by the institution, a medical history signed by the student." As a prerequisite to matriculation or registration, the State University System of Florida requires all students born after 1956 to present documented proof of immunity to MEASLES (Rubeola) and RUBELLA (German Measles.)

New admits (international students and US citizens living abroad must show proof of screening for Tuberculosis (TB) within the past year. New admits who have not taken the TB test may do so when they arrive, but will not be allowed to register until the test is taken. (Reference USF Policy 33.003 – http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-33-002.pdf.

All students new to USFSP are provided a Medical History/Immunization Form with their admissions letter. Submissions must include documentation for the following:
1. Medical History Form: Sign the mandatory immunization Health History Form
2. Measles 1, Measles 2, Rubella (MMR) Vaccination (2 doses after first birthday) **OR** Titer (lab work), Date and Results.
3. Hepatitis B-1: Vaccination OR check the declination box OR Titer (lab work), Date and Result
4. Meningitis: Menactra/MCV4 vaccination at Age 16 or older (if living on campus) **OR** check the declination (if not living on campus).
5. TB Screening: Tuberculosis screening required for all international students and U.S. born students residing at an address outside the U.S. at the time of application.

Upon request, Student Health Services will mail or fax a Medical History/Immunization Form, or forms may be downloaded from the Student Health Services Forms website and printed. In order to register, this form must be completed, signed and returned to:

University of South Florida St. Petersburg
Wellness Center, SLC 2200
140 7th Ave South
St. Petersburg, FL 33701
Fax: (727) 873-4193
Telephone: (727) 873-4422

Administrative Holds
A student may be placed on administrative hold for failure to meet obligations to the University. When a student is placed on an administrative hold, he/she may not be allowed to register, receive a diploma, or receive a transcript. Settlement of financial accounts must be made at the Cashier's Office. Each student placed on administrative hold should determine from the Office of Registration and Records which office placed the student on administrative hold and clear the obligation with that respective office.

Cancelation of Registration for Non-Payment
USF Regulation USF4.010,
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0101.pdf

Equal Opportunity Policy
Diversity and Equal Opportunity: Discrimination and Harassment Policy
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0101.pdf
DEO website: http://usfweb2.usf.edu/eoa
Phone: (813) 974-4373

The University of South Florida System (USF System) is a diverse community that values and expects respect and fair treatment of all people. The USF System strives to provide a work and study environment for faculty, staff and students that is free from discrimination and harassment on the basis of race, color, marital status, sex, religion, national origin, disability, age, or genetic information, as provided by law. The USF System protects its faculty, staff and students from discrimination and harassment based on sexual orientation, as well as gender orientation and expression. The USF System is also committed to the employment and advancement of qualified veterans with disabilities and veterans protected under the Vietnam Era Veterans' Readjustment Assistance Act, as amended (VEVRAA), as part of the effort to maintain an environment that is comfortable for all people and to ensure consistency with state and federal laws. Discrimination, harassment and retaliation are prohibited at the University, and complaints of such conduct are to be filed with the office of Diversity and Equal Opportunity. ("DEO") or the office of student rights and responsibilities (OSRR) or the appropriate student affairs office at the campus or institution where the discrimination or harassment occurred. The designated office will review such complaints and provide appropriate response including counseling, mediation, and/or referral for disciplinary action, up to and including termination from employment and/or expulsion from the USF System. In addition, DEO and OSRR will, as part of their internal processes, report any conduct that may be criminal in nature, such as bias-motivated crimes, to the appropriate law enforcement entities as set forth in section [IV.B] of USF policy 0.007. A student or employee who believes that he or she has not been treated in accordance with the University's Equal Educational and Employment Opportunity Policy or its Policy on Sexual Harassment may file an Equal Opportunity Complaint. Additional information about these procedures may be obtained from the Diversity and Equal Opportunity Office, Human Resources, BAY 206, or by calling 727-873-4105. It is prohibited for any administrator, supervisor, or other employee of USF to take any retaliatory action against an individual who, in good faith, has made a charge, testified, assisted, or participated in any manner in an investigation, proceeding, or hearing under provisions of applicable law.

Student Ombuds – BOG Regulation 6.011

PNM 104B
(727) 873-4184
studentombuds@usfsp.edu

The Ombuds Offices at USFSP provide confidential, impartial, independent and informal resources for students and employees (staff, faculty, administration, and temporary) to discuss concerns regarding their experience at USFSP and to explore alternatives for resolving problems or complaints through informal means.

The Ombuds Office function under the following standards of practice:

CONFIDENTIALITY
In order to create a space to voice concerns, the evaluate issues, and generate options, the Ombuds maintain privacy and hold all communication with those seeking assistance in strict confidence unless given permission to do so and to the extent permitted by law and University policy.

IMPARTIALITY
As an appointed neutral party, the Ombuds do no side with any individual, the University, or other parties involved and consider the interests and concerns of all parties with goal of achieving fair and equitable solutions.

INDEPENDENCE
The Ombuds offices operate independent of administrative authorities.

INFORMALITY
As informal resources, the Ombuds Offices do not participate in any formal adjudicative procedures or processes, including legal.

EXPRESSING CONCERN
Please call the Ombuds for an appointment if you are USFSP student or employee and
- can't figure out where to go to get a problem resolved; or
- aren't sure if you want to pursue a formal complaint; or
- want help dealing with an issue in an informal way; or
- want to rehearse your plan for dealing with a concern with a confidential, neutral listener.

ACTIVE LISTENING
Using active listening techniques, the Ombuds helps visitors describe their concerns, become aware of USFSP and USF System resources that might be helpful to them, and consider their options for how to address their concerns. The Ombuds works to empower individuals to best advocate for themselves.

Except in the unusual circumstances described below, the Ombuds will not reveal the identity of a visitor.

The Ombuds is not part of any formal complaint process, does not carry forward formal complaints, and does not advocate for any party in a dispute. However, with agreement of all relevant parties, the Ombuds may serve as a neutral participant in conversations including these parties. For example, the Ombuds may attend, but not participate in, a Student Code of Conduct hearing with the reporting student or may accompany a student who wishes to discuss a concern with a professor.

CONFIDENTIALITY
The Ombuds keeps visits as confidential as is legally possible. During a conversation, the Ombuds may jot down a few notes for the Ombud's personal use. If the Ombuds agrees to attend a meeting or hearing with a visitor, that person will be asked to provide a written request that indicates consent. The Ombuds keeps records on the number of visits, whether the visitor is a student or an employee, and the nature of concerns, but does not include any identifying information in those records.

As the Ombuds Office protects confidentiality and does not keep identifying information, the Ombuds cannot serve as an "Office of Record," or and "Office of Notice." The Ombuds will, however, direct individuals to the appropriate offices to file official complaints.

The only way a visitor's confidentiality would be broken is if there is imminent threat of serious harm or if required by law. For example, the Ombuds would contact the USFSP police department if the Ombuds believed the life of the visitor or lives of others were at risk. Another example is that the Ombuds is legally required to report known or suspected child abuse.

Center for Victim Advocacy and Violence Protection

Student Life Center
(727) 873-4422
After Hours: (727) 873-4422
https://www.usfsp.edu/wellness/about-us/
The USFSP Wellness Center empowers the University of South Florida St. Petersburg (USFSP) community by promoting a proactive and compassionate approach to holistic wellness and student development in an inclusive, collaborative and multidisciplinary environment.

USFSP Wellness Center Services include:
Counseling and Psychological Services
Health Services
Health Promotion Services
Self-Help
Crisis Services

USFSP Student Disability Services

In accordance with Section 504 of the Rehabilitation Act, the Americans with Disabilities Act and the ADA Amendments Act, the University of South Florida St. Petersburg provides reasonable classroom accommodations for otherwise qualified students who have documented disabilities. Prospective graduate students with disabilities apply under the same guidelines as all students through the Office of Graduate Studies.

If you are interested in applying for accommodation at the University of South Florida St. Petersburg, we suggest that you visit the U.S. Department of Education Web site: Students with Disabilities Preparing for Postsecondary Education: Know Your Rights and Responsibilities.

Students seeking accommodations with USFSP must register with the Students with Disabilities Office. See: https://www.usfsp.edu/disability/ for more information.

Diversity Inclusion and Equal Opportunity

BAY 208
diversity@usfsp.edu

At USFSP, we work collaborative to create a climate and sense of community that is safe, affirming and inviting for all in the university and St. Petersburg community. Our strategic goals include:
- Clearly define, publicize and implement the University's commitment to diversity and inclusion.
- Develop annual reports summarizing progress in both internal processes and key outcomes toward advancing diversity and inclusion goals.
- Create a welcoming environment for all individuals regardless of race, gender identity, age, types of ability, sex, sexual orientation, faith, nationality, ethnicity, socio-economic background, job role and function, culture, viewpoints, and familial status.
- Recruit, retain and promote more women and individuals from underrepresented backgrounds in faculty, staff and administrator level positions.

- Recruit, retain, develop and graduate more diverse undergraduate and graduate students to support equitable representation.
- Provide high quality diversity education, orientation, and training for all members of the university community.

Military and Veterans Success Center
TER 301/302
(727) 873-4467
va@usfsp.edu

The primary mission of the Military and Veterans Success Center is to provide a seamless transition for our nation's veterans from military to collegiate life by enhancing personal development and academic success.

Career Center
Student Life Center – 2nd Floor
(727) 873-4129
https://www.usfsp.edu/career

Explore Your Options   Engage and Get Experience   Excel and Get Employed
Our mission is to educate and empower students to identify career goals and excel in their professional aspirations through exploration, engagement, and customized career planning. By actively engaging with the Career Center, USFSP students will become impactful global citizens. Career Center staff are knowledgeable educators who are collaborative, compassionate, skilled and supportive. The USFSP Career Center serves as a catalyst for innovative connections that inspire students, employers, faculty, alumni and community members to create meaningful partnerships that impact our world.

Tobacco and Smoke Free Campus

USFSP 0-607SP: http://www1.usfsp.edu/adminservices/USFSP_policy/documents/USFSP_0-607.pdf

USFSP is committed to providing a safe, healthy and enjoyable learning, living and working environment. The USFSP campus is tobacco and smoke free. Smoking and use of tobacco products are not allowed in any indoor or outdoor area, including parking garages, grounds, sidewalks, or recreational areas. This policy also includes the use of e-cigarettes.

Academic Term and Student Information

Semester System
USF St. Petersburg operates on a semester system. Semesters begin in August and January with Summer Sessions beginning in May and June. See *Academic Calendar* for appropriate dates.

Academic Load
See Enrollment Requirements in the Academic Policies Section

Academic Standing
A student's class standing is determined by the number of credits he/she has earned without relation to his/her GPA.

> 6M - Graduate student admitted to Master's Degree Program
> 6A - Graduate student admitted to Specialist Degree Program
> 6D - Graduate student admitted to a Doctoral Degree Program (not eligible to register for dissertation hours)
> 6C - Graduate student admitted to Doctoral Candidacy (eligible to register for dissertation hours)
> 7A-7D - 1st-4th year professional program (M.D.) or post-doctoral status
>
> *Also see "In good standing" in the Academic Policies Section*

Student Definitions

Degree Seeking Students
Students who have been accepted into a degree program.

Graduate Certificate Seeking Students
Students who have been accepted into a Graduate Certificate program. Students who are non-degree seeking, but who are admitted to a Graduate Certificate may register during the same registration period as Degree Seeking students. For more information on Graduate Certificates, please visit the Graduate Studies website: https://www.usfsp.edu/academics/graduate-certificates/

Non-Degree Seeking Students
Students who have not been accepted into a degree or Graduate Certificate. Non-Degree Seeking students may enroll and enter classes on a space available basis by obtaining appropriate approval from the degree-granting college or academic unit in which the courses are offered. Non-Degree Seeking students must meet all prerequisites for courses in which they wish to enroll. Certain classes are available only to degree seeking students and may not be available for Non-Degree Seeking students.

Should a student be accepted into a graduate degree major, refer to the Application of USF credit policy for information on what credits may be applied to satisfy graduate degree requirements. Prior to completing twelve (12) hours in a specific degree major it is strongly recommended that a Non-Degree Seeking Student apply for admission and be accepted to the major to continue taking courses in the major. Majors may have additional requirements, so check with the major of interest for more information.

Transient Student
Transient Student Policy USF 10-001 Transient Student Policy:
http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-001.pdf

The State University System (SUS) Transient Student program enables a graduate student to take advantage of resources available on other SUS campuses. A Transient Student, by mutual agreement of the appropriate academic authorities in both the sponsoring and hosting institutions, receives a waiver of admission requirements and application fee at the host institution and a guarantee of acceptance of earned credits by the sponsoring institution. A graduate advisor, who will initiate a visiting arrangement

with the appropriate faculty of the host institution, must recommend a transient student. USF St. Petersburg degree-seeking students who wish to enroll at another regionally accredited institution (other than USF system institutions) MUST HAVE PRIOR WRITTEN APPROVAL from their college academic advisor to receive credit for courses taken. Transient Student Form: http://www.registrar.usf.edu/forms/TSF2008-0407_16_17_06.pdf

Graduate Assistantships (GA), Research Assistantships (RA), and Teaching Assistantships (TA). Graduate Assistantships are intended to recruit quality students to graduate study at USF St. Petersburg and to enhance the graduate learning experience. Graduate assistantships exist within academic departments or other university offices on campus. Graduate assistants may teach, conduct research, or perform other tasks that contribute to the student's professional development. Graduate students may be classified as Graduate Assistants (GAs), Graduate Teaching Assistants/Associates (GTAs), Graduate Instructional Assistants (GIAs), and/or Graduate Research Assistants/Associates (GRAs). All graduate assistants at USF St. Petersburg work under a contract negotiated between Graduate Assistants United (GAU) and the USF Board of Trustees. The GAU is the labor union certified as the exclusive bargaining agent for graduate assistants at USF system institutions. To receive an assistantship, graduate students must meet the following eligibility requirements:

- Be accepted into a graduate major degree seeking program;
- Maintain an overall minimum grade point average (GPA) and degree program GPA of 3.00;
- Maintain full-time enrollment during the semester(s) appointed as a graduate assistant.
- For teaching assistantships, demonstrate proficiency in spoken English (if student is not from an English speaking country).

Full-time enrollment is considered to be enrollment in nine (9) graduate credit hours in the fall semester, nine (9) graduate credit hours in the spring semester, and six (6) graduate credit hours in the summer semester. If a graduate assistant is enrolled in the last semester of his/her program of study, the number of registered semester hours may be less than the full-time requirement. Graduate assistants must comply with all Graduate School enrollment requirements to retain their assistantship as stated in the USF St. Petersburg Graduate Catalog.

For specifics regarding Graduate Assistantship requirements, guidelines, and policies, refer to the Academic Policies Section of this catalog and also the Graduate Studies web resources available on the USF St. Petersburg Graduate Admissions website: https://www.usfsp.edu/graduate-studies/graduate-assistantships/.

Student Identification Card (USFCard)
Policy Reference: USF 0-517 – http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-0-517.pdf

University policy requires all students obtain and carry the USFCard while on campus. The USFCard is primarily used for identification, for verification of USF status, and for using University services, such as the Library, the 23 purchase of parking decals, obtaining passes for University sporting and theatrical events, and other related events/services.

USFCards may be obtained at the USF St. Petersburg ID Card Center located in the Nelson Poynter Memorial Library-POY 221. For questions call: (727) 873-4409 or visit their website: http://www.dl.usf.edu/npml/usfid.html. Legal identification (passport, driver's license, or

State/Government Photo Identification card) must be presented to obtain a USFCard. For the issuance of a family card, the student (with their USFCard) must accompany the family member(s) who must also provide legal identification. All privileges extended to the family are discontinued when the sponsor is no longer a student.

Use of the USFCard by anyone other than the person to whom it was issued is strictly prohibited. The cardholder is responsible for any and all losses associated with their card. Fees for issuance of the first and replacement cards are in accordance with USF 5.018. The initial cost of the card is $10.00; students may pay with MasterCard (debit/credit). Refer to the fee schedule for costs of each additional family member card. Financial services, long distance telephone services, and other features are options available at the user's discretion. USFCards are the property of the University of South Florida and must be returned on request.

Student Records Policy

Reference: USF 2.0021
http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf2.0021.pdf

Pursuant to the provisions of the Family Educational Rights and Privacy Act ("FERPA"; 20 USC Par. 1232g), 34 CFR Par. 99.1 et seq, Florida Statutes Sub. Par. 228.093 and 240.237 and USF Rule 6C4-2.0021, Florida Administrative Code, students have the right to:

1. Inspect and review their education records;
2. Privacy in their education records;
3. Challenge the accuracy of their education records; and
4. Report violations of FERPA to the FERPA Office, Department of Education, 400 Madison Avenue, SW, Washington, D.C. 20202 and/or bring actions in Florida Circuit Court for violations of Rule 6C4-2.001, Florida Administrative Code.

Copies of the University's student records policy, USF 2.0021, may be obtained from the USF St. Petersburg Office of Registration and Records or the USF Office of General Counsel.

Academic Record
The student's academic record shall not be changed after the student has graduated. Except in cases of administrative error, the student's academic record shall not be changed once the semester has rolled.

Release of Student Information
Pursuant to requirements of the Family Educational Rights and Privacy Act (FERPA), the following types of information, designated by law as "directory information," may be released via official media of USF St. Petersburg or the USF system (according to USF System regulation USF2.0021 Student records): *Student name, local and permanent addresses, telephone listing, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, full- and part-time status, and the most recent previous educational agency or institution attended, and other similar information.* The University Directory, published annually by the University, contains only the following information, however: *student name, local and permanent address, telephone listing, classification, and major field of study.* The Directory and other listings of "directory information" are circulated in the course of University business and, therefore, are accessible to the public, as well as to students, faculty, and staff.

Students must inform the USF Office of the Registrar in writing (forms available for that purpose), if they wish directory information to be withheld. Such requests must be received within the first two (2) weeks of the semester and will remain in effect until the student has not been enrolled at USF for three (3) consecutive terms. Notification to the University of refusal to permit release of "directory information" via the University Directory must be received no later than the end of the first week of classes in the Fall Semester.

Exclusions

Members or former members of the faculty who hold or have held the rank of Assistant, Associate, or Full Professor are not eligible to be granted degrees from USF St. Petersburg, except upon prior authorization of the Office of Graduate Studies and the Vice Chancellor for Academic Affairs. In cases where a member of the immediate family of a faculty member is enrolled in a graduate degree program, the faculty member may not serve on any advisory or examination committee or be involved in any determination of academic or financial status of that individual.

Course Information

Academic Credit Hours
Reference – USF Policy 10-065 http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-065.pdf
Florida Statute 6A-10.033 – https://www.flrules.org/gateway/ruleno.asp?id=6A-10.033.

Academic credit provides the basis for quantifying the amount of engaged learning time expected of a typical student enrolled in traditional classroom settings, laboratories, studios, internships and other forms of experiential learning, and distance and correspondence education. Credit hours are a measure of learning, and support a wide range of activities, including the transfer of students from one institution to another, awarding financial aid, and credentialing for employment. Because of the significance of awarding credit hours, an institution is obligated to ensure that credit hours for courses and majors conform to the commonly accepted standards of higher education, as stated in the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Federal Requirements 4.9 (Definition of Credit Hour) (http://sacscoc.org/pdf/081705/Credit%20Hours.pdf) and the SACSCOC Credit Hours Policy Statement. This Policy is intended to ensure that all credit bearing courses and programs offered by the University of South Florida System (USF System) meet the requirements of the Federal definition of a credit hour and the Credit Hours Policy Statement issued by the SACSCOC.

In determining the maximum number of credits that may be assigned to a course, the following guidelines apply:

- For courses taught in a "traditional" classroom format in a 15-week semester, the maximum number of credits to be assigned is limited to the weekly number of 50-minute contact periods (or their equivalent) with the instructor. Underlying this statement is an assumption that each 50-minute contact period requires a minimum additional two hours of student work outside of the class involving reading, exercises, etc. Where this assumption does not hold true (as may be the case with some laboratories, for example), then the maximum number of credits may be significantly less than the weekly number of 50-minute contact periods.

- For a lecture class, one unit is considered to be one hour of lecture class time and two hours per week of homework. For the typical three-unit class, a student spends three hours per week in class and should do six hours per week of homework. The total number of class contact hours per semester equals the credit hours multiplied by 15 weeks.
- For a laboratory class, the hours per week are considered to be all in class with no outside assignments. Thus, one unit is three hours per week of laboratory time.
- Where a course includes "by arrangement lab hours," these generally take the place of the hours assigned to homework, since the student is required to use supervised college facilities to do assignments related to homework. An example might be a 3-unit lecture course which requires the student also to work two hours per week in the computer lab. There would be only four hours per week of additional homework required.

- In all cases, but particularly in cases such as online learning where seat time is non-verifiable, credit hours are awarded on the basis of documented student learning outcomes that reflect the amount of academically engaged time for a typical student in a traditional format, and on the basis of documentation of the amount and type of work a typical student is expected to complete within a specified period of academically engaged time. The number of credit hours awarded is based on the number and/or rigor of student learning outcomes, with the higher number of credit hours awarded yielding greater number and/or rigor of outcomes.

Availability of Courses

USF St. Petersburg does not commit itself to offer all the courses, programs, and majors listed in this catalog unless there is sufficient demand to justify them. Some courses may be offered only in alternate semesters or years, or even less frequently if there is little demand.

Course Attendance at First Class Meeting – Policy for Graduate Students

Students are required to attend the first class meeting, for both online and on-campus courses. Students having extenuating circumstances beyond their control and who are unable to attend the first class meeting must notify the instructor prior to the first class meeting to request an exception to the mandatory first class attendance requirement and to ensure that they are not dropped from the course. To avoid fee liability and academic penalty, the student is responsible for insuring that he/she has dropped or been dropped from all undesired courses by the end of the 5th day of classes. (See USF Regulation – Registration – 4.0101, http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4/0101.pdf.

Attendance Policy for the Observance of Religious Days by Students

In accordance with Sections 1006.53 and 1001.74(10) (g) Florida Statutes and Board of Governors Regulation 6C-6.0115, the University of South Florida system has established the following policy regarding religious observances:
http://regulationspolicies.usf.edu/regulations-and-policies/regulations-policies-procedures.asp

Students are expected to notify their instructors at the beginning of each academic term if they intend to be absent for a class or announced examination, in accordance with this policy. Students absent for religious reasons, as noticed to the instructor at the beginning of each academic term, will be given reasonable opportunities to make up any work missed. In the event that a student is absent for religious reasons on a day when the instructor collects work for purposes of grading (homework, pop quiz, etc.),

the student shall be given a reasonable opportunity to make up such work or shall not have that work averaged into the student's grade at the discretion of the instructor.

Any student who believes that he or she has been treated unfairly with regard to the above may seek review of a complaint through established USF System Academic Grievance Procedures (found in the Graduate Catalog) and those provided by the University's Office of Diversity and Equal Opportunity.

Course Concurrency
All courses, with the exception of those approved for transfer of credit, should meet the time limit specified for the degree and be academically relevant as determined by the faculty in the graduate major. Courses used for the graduate degree requirements can be no more than ten years old at the time the degree is conferred.

Course Descriptions
For a listing of the most current, approved course descriptions refer to the USF Course Inventory Database available online at http://ugs.usf.edu/course-inventory or in the course description listing in the Graduate Catalog.

Adds
After a student has completed his/her registration on the date assigned, he/she may add a course during the drop/add week (i.e. through the fifth day of classes) using the OASIS system. Courses may be added with instructor approval and verification up to the last day to withdraw without academic penalty. See Academic Calendar for deadlines. Courses may not be added after the deadline to withdraw without academic penalty or retroactively except in cases of University Administrative error.

Drops/Withdrawals

> **Drops**
> A student may drop a course(s) during the drop/add periods (first five days of classes) in order for the course(s) not to appear on any permanent academic records. No tuition or fees will be assessed for courses(s) dropped within that period. Courses may not be dropped after the last day of classes except in the case of University Administrative Error.

> **Withdrawal**
> A student may withdraw from a course(s) between the second and tenth week of the semester (except for summer sessions – see the Summer Schedule of Classes for dates). However, tuition and fees will be assessed for any course(s) withdrawn by the student after the first week. The student's academic record will reflect a "W" grade for any course(s) withdrawn between the second and the tenth week of the semester. Under specific conditions, consideration for refund of tuition and fees may be requested if a Fee Adjustment Request form accompanied by verifiable supporting documentation is submitted to the Office of the Registrar within six (6) months from the end of the semester to which any refund would be applicable. Students who withdraw may not continue to attend classes.

> Effective Fall 2016, all graduate students will be limited to a total of two course withdrawals while enrolled as a degree-seeking or a non-degree seeking student taking graduate courses at USF St. Petersburg. Appeals for additional course withdrawals due to extenuating circumstances must be submitted to the Office of Graduate Studies via the Graduate Petition process.

Fee Adjustment Options

Students who receive approval to drop a course during the second through tenth week of classes are liable for tuition and fees. However, the student may apply for a Fee Adjustment through the Registrar's Office if the student has any of the exceptional circumstances listed above. The Fee Adjustment form may be submitted after the petition to drop is approved and processed. The Registrar will determine if a fee/tuition refund is applicable.

Deletes

A "delete" completely removes the course from the record with no history that it was ever part of the student's record. Courses will not be deleted from a student's record except in cases of University Administrative error. Requests for course deletions must be submitted only during the semester in which the error has occurred and only with written explanation from college faculty or administrative staff verifying the error. Such requests must be submitted by the last day of classes and approved by the College Dean or designee and the Vice Chancellor for Academic Affairs or designee. Retroactive requests for course deletions will not be approved. Faculty and students are encouraged to review course enrollment to verify accuracy of registration. In the event of extenuating circumstances such as documented medical emergencies, military leave or University error, students may request special consideration for deletions in writing to the USF St. Petersburg Office of Graduate Studies.

Retroactive Actions

Requests for retroactive actions will no longer be considered/approved. Also see Academic Record.

Auditing Privileges and Fees

A student who wishes to sit in on a class to review the course material may do so; however, the student is not allowed to take exams, earn grades, or receive credit. The student's status for that class is an audit and his/her presence in the classroom is as a listener. Audit status must be obtained only during the first five days of the term by submitting an Audit Form and receiving a date-stamped permit from the college/department where the course is being offered. Audit forms should be submitted to the Office of Records and Registration. IN-STATE fees are assessed for all audit courses. Procedure and forms for requesting to audit are available on the Office of Records and Registration website: http://www.usfsp.edu/records

Cancellation of Registration before First Class

Meeting Students may cancel their registration by notifying the Office of Registration and Records in writing prior to the first day of classes. If fees have already been paid, the student may request a full refund of fees and tuition through the Cashier's Office: (727) 873-4107.

Voluntary Withdrawal (from the major)

A student may voluntarily withdraw from their graduate major. A Voluntary Withdrawal cannot be retroactive. The effective date of the withdrawal will be entered into the student's record by the Office of the Registrar as the first business day after the end of the semester. Students who wish to withdraw must submit a Voluntary Withdrawal Form, available from the Office of Graduate Studies (www.usfsp.edu/graduate-studies). Once processed, the student's status will be changed from Graduate Degree Seeking to Non-Degree Seeking. A change to Non Degree Seeking status could adversely impact financial aid. Questions regarding the impact on financial aid should be directed to the Financial Aid Office at (727) 873-4128. Students will remain financially and academically responsible for any course(s) they have registered for. Students may request to drop or delete courses by submitting an Office of Graduate Studies petition.

Academic Dismissal

Students may be academically dismissed from their graduate degree program for a variety of reasons. Once processed, the student's status will be changed from Graduate Degree Seeking to Non Degree Seeking. A change to Non Degree Seeking could adversely impact financial aid. Dismissal cannot be retroactive. The effective date will be entered into the student's record by the Office of the Registrar as the first business day after the end of the semester, except in cases of academic dismissal due to academic dishonesty or disruption of academic process. Some of the reasons for academic dismissal include*:

- Failure to successfully satisfy requirements to meet Conditional Admission by the deadline established by the program.
- Receiving an "FF" grade
- Failure to maintain "good standing"
- Failure to make satisfactory progress.

*Students may be dismissed for other reasons, such as violations of student conduct. Refer to the USF system Code of Student Conduct USF - 6.0021 http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf6.0021.pdf

To be readmitted, the student will need to reapply for admission, meeting the admission criteria in place at the time. Graduate students who are assigned an "FF" grade will be academically dismissed from the University and will not be eligible to apply to any graduate program at any USF system institution.

Section 5 – Tuition, Fees and Financial Information

Tuition Information

Tuition and Fees Regulation: http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0102.pdf

For tuition information refer to the link: http://www.usf.edu/business-finance/controller/student-services/tuition-rates.aspx

All registration fees and all courses added during the drop/add period must be paid in full by the payment deadline date specified in the current Schedule of Classes. Registration fee payment may be made in person to the Cashier's office or online through OASIS. Students not on an authorized deferred payment plan and who have not paid their registration fees in full by the published deadline will have their registrations canceled. A student will not receive credit for any courses taken during that semester. Students who are allowed to register in error may have their registration canceled. Any fees paid will be refunded or credited against any charges due the University.

Veteran Deferment Benefits
The tuition deferment program for Veterans is set up through USF and through the Veteran's Administration (VA). Due to VA payments being delayed at times, a tuition deferment gives the student and the VA an extra 90 days past the start of the semester to pay for a student's tuition and fees. See Veterans Benefits and Tuition Act of 2018, Section 103PL 115307.
For more information contact USF St. Petersburg Veteran's Services: at (727) 873-4128 or va@usfsp.edu or the USF Office of Veteran Success at USF in Tampa:

Office of Veteran Success
4202 E. Fowler Avenue., ALN 130
Tampa Florida 33620
(813) 974-2291 or http://usfweb2.usf.edu/vetserve/

Financial Aid
Financial assistance is available through the Office of Financial Aid. Students requiring such assistance should contact http://www.usfsp.edu/finaid for information. Students eligible for tuition waivers (through assistantships, or employee benefits, etc.) should contact the department and/or college providing the waiver for information. Also see USF system Regulation USF 6-0121 and USF 6-012. http://regulationspolicies.usf.edu/regulations-and-policies/regulations-policies-procedures.asp

Office of Financial Aid Policy on Refunds and Repayments
USF Policy 10-013 at http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-013.pdf

Fees, Fines, and Penalties
USF Regulation USF 4.0107, at http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf4.0107.pdf

Section 6 – Academic Policies and Regulations

Academic Policy and Regulation Information
For USF System Regulations refer to http://regulationspolicies.usf.edu/regulations
For USF System Policies refer to http://regulationspolicies.usf.edu/policies-and-procedures/policy-procedures.asp

Student Responsibilities
The University of South Florida St. Petersburg, and the majors have established certain academic requirements that must be met before a degree is granted. While advisors, directors, department chairpersons, and deans are available to assist the student meet these requirements, it is ultimately the responsibility of the student to be acquainted with all policies and regulations, and be responsible for completing the requirements. If requirements for graduation have not been satisfied, the degree will not be granted. The information presented here represents the University Academic Policies. Colleges and departments may have additional requirements. Check with your College Graduate Advisor or your Department Director for more information. Courses, major, and requirements described in the catalog may be suspended, deleted, restricted, supplemented, or changed at any time at the sole discretion of the University and the Board of Trustees. For a list of current course descriptions, refer to the USF Course inventory database online at https://www.systemacademics.usf.edu/course-inventory

Student Conduct
Members of the University community support high standards of individual conduct and human relations. Responsibility for one's own conduct and respect for the rights of others are essential conditions for academic and personal freedom within the University. USF St. Petersburg reserves the right to deny admission or refuse enrollment to students whose actions are contrary to the purposes of the University or impair the welfare or freedom of other members of the University community. Disciplinary procedures are followed when a student fails to exercise responsibility in an acceptable manner or commits an offense as outlined in the Student Code of Conduct. Refer to USF 6.0021, Student Code of Conduct at http://regulationspolicies.usf.edu/regulations/pdfs/regultaion-usf6.0021.pdf.

Responsible Conduct in Research
Responsible Conduct of Research (RCR) is a critical element in training for scholarship. USF has information about RCR available online at: www.grad.usf.edu/rcr.php

Intellectual and Scholarship Integrity

Shared Authorship and Research Education Policy

USF St. Petersburg contains a broad range of academic majors in diverse disciplines, and the USFSP faculty recognize that the conventions on shared authorship and credit for scholarship vary among disciplines. In general, sharing in authorship implies both substantive intellectual contributions to the work and also approval of the work as it appears in public. Right to authorship credit is not automatically conveyed by being the instructor of a course, being a student's major professor, or being a research assistant working with faculty and professional researchers; neither is credit automatically prohibited because of such status.

Each college/program that includes research education shall include an explicit discussion of shared authorship issues and disciplinary conventions as part of the formal curriculum addressing research methods and ethics, including the conventions of the discipline's publications. In addition, each college or program shall have a formal statement about shared authorship made available to students (such as on a college or program website) or given to students at the same time as they are given notice about other program and college expectations.

Each college/program shall also have a written procedure for resolving questions or conflicts about shared authorship where students are involved. The college and program may use the same procedure for resolving questions for non-student employees, but the procedure for resolving questions or conflicts involving students must address the educational needs of students (e.g., explicitly asking about the nature of the research methods and ethics education as experienced by a student involved in the case at hand).

This written procedure must be made available to students (such as on a college or program website) or given to students at the same time as they are given notice about other program and university expectations.

Academic Integrity of Students

Reference: USF Regulation USF 3.027 - To read the entire regulation, go to: http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.027.pdf. Please note the sections that specifically pertain to graduate students.

Disruption of Academic Process
Reference: USF Regulation USF 3.025: http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf3.025.pdf

Student Academic Grievance Procedure

Reference: USF 10.002 Student Academic Grievance Procedure
http://regulationspolicies.usf.edu/regulations-and-policies/regulations-policies-procedures.asp

For matters that are not academic in nature, reference *USF 30-053 Student Grievance Processes and Non-Academic Grievance Policy*: http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-30-053.pdf.

Graduate Catalog
The USF St. Petersburg Graduate Catalog, including college and major requirements, and major and course descriptions, is available on the web at https://www.usfsp.edu/catalog/. Each Catalog is published and in effect for the academic term(s) noted on the title page.

Student's Program Degree Requirements
In order to graduate, students must meet all requirements specified in the USF St. Petersburg Catalog of their choice, except as noted below. As the University is dynamic, changes and updates to the catalog

are anticipated. In contract to major requirements, which are tied to a specific catalog, all students must comply with University policies and procedures that come into effect each catalog year.

- Students cannot choose a USF St. Petersburg Catalog published prior to admission (or readmission) or during an academic year in which they did not complete at least two terms. If a student is dropped from the system and must be reinstated, the student's choice of Catalog is limited to the USF St. Petersburg Catalog in effect at the time of readmission or any one Catalog published during their continuous re-enrollment.

- If state law or certification requirements change, the student must comply with the most current standards or criteria.

- If the College or program makes fundamental changes to the major that necessitates changes in the degree requirements of enrolled students, the needs of those students will be explicitly addressed in the proposal for change and scrutinized by the Office of Graduate Studies.

- USF St. Petersburg and USF system policies and procedures not related to degree requirements such as academic grievance procedures, student conduct code and other procedural processes and definitions may be updated each year and the student will be held to the most current catalog and procedures available.

- USF St. Petersburg does not commit itself to offer all the courses, programs, and majors listed in this Catalog. If the student cannot meet all of the graduation requirements specified in the Catalog of choice as a result of decisions and changes made by the University, appropriate substitutions will be determined by the program to ensure that the student is not penalized.

Student/Advisor Relationship
Although it is ultimately the responsibility of the student to be acquainted with all policies and regulations, and be responsible for completing requirements, the Advisor's role is to guide students in all aspects of their academic major and to monitor and evaluate students' progress toward their degrees. He/she should be aware of any difficulties that students may be facing in their coursework or research experiences and should work with students in resolving these issues. It is recommended that the advisor and student understand each other's expectations and that effective means of communication are established. The advisor and student are encouraged to meet at appropriate intervals to critically evaluate the student's progress. These meetings may be requested by the student or the advisor. The advisor also has the obligation to express to the student any concerns he/she may have regarding the student's performance, to stipulate the level and quality of work expected, and to offer suggestions leading to student success. As such, the advisor neither gives the student excessive guidance nor allows the student to struggle needlessly. The goal of this relationship is to foster student independence, which results in successful completion of the program of study.

Student's Program of Study
In addition to the graduate major requirements as specified in the Graduate Catalog, each student should have a written, flexible program of study that includes the student's choice of catalog year, choice of concentration, cognate, or other options available in the major, and a tentative identification of other appropriate choices available to the student in the program, which may (but does not need to), include specific courses. A program of study is not a guarantee that specific courses will be available in a specific semester or that statutory and regulatory requirements will not change during the student's

enrollment in the major. As required or appropriate, the program of study should be revisited and modified by the student and the student's advisor/major professor(s).

Electronic signatures

Where procedures described in this catalog require signatures, requirements for original signatures may be satisfied by University-approved electronic signatures or other secure methods of verifying approvals by advisors, major professors, committee members, or other University administrators, faculty and staff.

Assistantships

Graduate Assistantships (GA), Research Assistantships (RA), and Teaching Assistantships (TA). Graduate Assistantships are intended to recruit quality students to graduate study at USF St. Petersburg and to enhance the graduate learning experience. Graduate assistantships exist within academic departments or other university offices on campus. Graduate assistants may teach, conduct research or perform other tasks that contribute to the student's professional development. Graduate students may be classified as Graduate Assistants (GAs), Graduate Teaching Assistants/Associates (GTAs), Graduate Instructional Assistants (GIAs), and/or Graduate Research Assistants/Associates (GRAs). All graduate assistants in the USF system work under a contract negotiated by the Graduate Assistants United (GAU) and the USF system Board of Trustees. The GAU is the labor union certified as the exclusive bargaining agent for graduate assistants in the USF system.

Eligibility

- To receive an assistantship, graduate students must meet the following eligibility requirements:
- Be accepted into a graduate degree program;
- Maintain an overall minimum grade point average (GPA) and degree program GPA of 3.00;
- Be enrolled full-time during the semester(s) appointed as a graduate assistant;
- Teaching assistants must demonstrate proficiency in spoken English (if student is not from an English speaking country).
- Maintain a satisfactory work performance evaluation for all previous work performed as a Graduate Assistant.

Appointments

Graduate Assistants (GA) may be appointed up to a maximum of .50 FTE for a single assistantship. Majors who desire to appoint a graduate student, in any classification more than .50 FTE up to .75 FTE, for single or multiple appointments, must submit justification to the Office of Graduate Studies for approval. Students hire in non-GA positions on campus must also not exceed .75 FTE for the combined position and assistantship appointments. It is preferred that students refrain from employment outside of the assistantship appointment. Departments may determine the maximum number of semesters for teaching assistant appointments.

Enrollment (Assistantships)

Full-time enrollment is considered nine (9) graduate credit hours in the fall semester, nine (9) graduate credit hours in the spring semester, and six (6) graduate credit hours in the summer semester. If a graduate assistant is enrolled in the last semester of his/her program of study, the number of registered semester hours may be less than the full-time requirement. Graduate assistants must comply with all Office of Graduate Studies enrollment requirements to retain their assistantship as state in the Graduate

Catalog. For specifics regarding Graduate Assistantship requirements, guidelines and policies, refer to the USF System Graduate Assistants Policies and Guidelines Handbook.

Note: Criminal history background checks may be required depending upon the appointment. Reference USF Policy 0-615. http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-0-615.pdf.

Enrollment Requirements

Students receiving Veterans' Administration benefits should confirm their enrollment requirements with the Office of Veterans' Services or Veterans' Coordinator.

Minimum University Regulations

USF Full-Time Student Definition
Students taking nine (9) or more hours toward their degree in the fall or spring semester, or taking six (6) or more hours in the summer semester, will be classified as Full-Time students for academic purposes. For financial aid requirements, contact the Office of Financial Aid. Students may not take more than 18 graduate credit hours per semester without prior written approval by the college. For financial aid enrollment requirements, refer to the Office of Financial Aid http://usfweb2.usf.edu/finaid/other/enrollment.aspx.

Continuous Enrollment for All Graduate Students
All graduate degree-seeking students must be continuously enrolled. Continuous enrollment is **defined as completing, with grades assigned, a minimum of 6 hours of graduate credit every three consecutive semesters.**   Courses that receive a "W" grade do not fulfill continuous enrollment requirements. Colleges and programs may have additional requirements. Students on an approved leave of absence are not subject to the enrollment requirement for the time approved for the leave. See also the Time Limitations Policy.

Readmission Following Non-enrollment
A graduate student who is not registered and enrolled for a minimum of six (6) credits in a 12-month period is automatically placed in non-degree seeking (i.e. inactive) status. Students must be readmitted to the major to continue their studies. Readmission is at the discretion of the program and is not guaranteed. *Refer to the Readmission Policy in the Graduate Admissions Section for more information.*

Enrollment during Comprehensive Exams
During the term in which students take the comprehensive exams, students must be enrolled for a minimum of two (2) hours of graduate credit. If the exam is taken between semesters, the student must enroll for a minimum of two (2) hours of graduate credit in the semester before or following the exam.

Enrollment during Semester of Thesis Submission
Students must be enrolled for a minimum of two (2) thesis hours during the semester that the thesis is submitted and approved by the Office of Graduate Studies, usually the semester of graduation. Students not enrolled for the minimum requirement will not have the thesis approved and therefore may not be certified for graduation.

Enrollment during Semester of Graduation
Students must be enrolled for a minimum of two (2) graduate hours during the semester of graduation.

Enrollment for Graduate Teaching and Research Assistants
Graduate Teaching and Research Assistants should be full-time students. Exceptions must be approved by the College Dean and the Office of Graduate Studies.

Leaves of Absence (LOA)
Leaves of Absence (LOA) may be granted to students under exceptional and unavoidable circumstances. Students requesting a LOA must specify the reasons for the leave, as well as the duration. Requested LOA may be approved for up to two years. Students requiring less than three (3) consecutive terms of absence do not need an approved LOA if they meet the continuous enrollment requirement.

Students with an approved LOA must be enrolled in the first semester after the leave expires. To request an LOA, the student must complete and submit the LOA form available on the Graduate Studies website. The LOA must be approved by the Major Professor, the Program, the College, and the Office of Graduate Studies, and is noted in the student's record. If the LOA is granted, the time absent does not count against the student's time limit to obtain the degree.

Students returning from an approved LOA must reactivate their status by contacting the Office of Graduate Studies for procedures.

Satisfactory Academic Progress (SAP)

For Academic Purposes
Satisfactory Academic Progress for academic purposes is determined by the progress the student has made in the major toward degree completion, taking into account the curriculum requirements, as well as the time to degree allocations. This is a separate assessment from the Satisfactory Academic Progress requirement for financial aid.

For Financial Aid Recipients
Reference http://www.usf.edu/financial-aid/sap/index.aspx
Reference http://www.ifap/ed/gov/gahome/gaassessments/sap.html

Federal regulations require all schools who participate in Title IV federal financial aid programs to have a Satisfactory Academic Progress (SAP) policy that conforms to specific grade-based and time-based requirements. These requirements apply to all students as one determinant of eligibility for financial aid and include three components:
- GPA
- Pace
- Maximum Time

Refer to the Financial Aid websites above for information and requirements.

Academic Standards and Grades

Minimum University Requirements

In Good Standing
To be considered "a student in good standing," graduate students must

- Maintain an overall minimum grade point average (GPA) of 3.00 (on a 4.00 scale) in all courses taken as a graduate student, and
- Maintain an overall minimum grade point average (GPA) of 3.00 (on a 4.00 scale) in all courses taken in each of the student's degree-seeking programs.

Only courses with grades of "C" (2.00) or better will be accepted toward a graduate degree; no grade of "C-"or below will be accepted. Students must meet the requirements to be in good standing to graduate. All "I" and "M" grades must be cleared for graduation to be certified. Students who fail to maintain good standing may be placed on probation or academically dismissed.

Grade Point Average (GPA)

The GPA is computed by dividing the total number of quality points by the total number of graded (A-F) hours completed. The total quality points are figured by multiplying the number of credits assigned to each course by the quality point value of the grade given.

Credit hours for courses with grades of I, IU, M, MU, N, S, U, W and Z and grades which are preceded by T (Transfer) are subtracted from the total hours attempted before the GPA is calculated. Graduate students are not eligible for grade forgiveness. All grades earned, regardless of course level, will be posted on the transcript. If a student retakes a course, both grades will be used in the determination of the GPA. Courses taken at a USF System Institution as non-degree-seeking are not computed in the GPA unless the courses are transferred in and applied to the degree requirements. The program and the college must approve such actions.

Grades for transfer credits accepted toward the degree program will not be counted in the GPA unless the coursework in question was taken as a non-degree-seeking student at a USF system institution and meets the requirements stated above (see Institution Based Credit/Transfer of Credit section).

Graduate Grading System
Plus/Minus Grading:
Effective fall semester 2000, graduate and undergraduate grades are assigned quality points in the Grade Point Average (GPA) grading system. The +/- designation must be included in the syllabus provided at the beginning of a course. The use of the +/- grading system is at the discretion of the instructor. The syllabus policy is available in the office of Academic Affairs.

Letter grade = number of grade points

Letter grade	number of grade points
A+	4.00
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67

C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	.67
F	0.00
FF	Failure due to academic dishonesty
CF	Canceled Financially (Course was canceled due to financial reasons)
CMU	Canceled, Missing Grade that has turned to a "U"
IB	Incomplete, grade points not applicable
IC	Incomplete, grade points not applicable
ID	Incomplete, grade points not applicable
IF	Incomplete, grade points not applicable*
M	Missing grade/no grade reported by instructor, grade points not applicable
N	Audit, grade points not applicable
S/U	Satisfactory/Unsatisfactory, grade points not applicable
W	Withdrawal or drop from course without penalty, grade points not applicable
Z	Continuing registration in multi-semester internship or Thesis/Dissertation courses, grade points not applicable

Incomplete grade policy change effective Fall 2008. IF grades earned and posted prior to Fall 2008 do calculate in the GPA; IF grades earned beginning Fall 2008 forward do not calculate in the GPA. Refer to Incomplete Grade Policy for more information.

Satisfactory (S)/Unsatisfactory (U)

Graduate students may not take courses in the major on an S/U (satisfactory/unsatisfactory) basis unless courses are specifically designated S/U in the Catalog. Students may take courses outside of the major on an S/U basis with prior approval of the course professor, major professor or advisor, and the Dean of the College in which the student is seeking a degree. The student may apply a maximum of six (6) hours of such credit (excluding those courses for which S/U is designated in the Catalog) toward a master's degree. Directed Research, Thesis, and Dissertation courses are designated as variable credit and are graded on an S/U basis only. Before a student begins work under Directed Research, a written agreement must be completed between the student and the professor concerned, setting forth in detail the requirements of the course.

Incomplete (I)

Definition: An Incomplete grade ("I") is exceptional and granted at the instructor's discretion only when students are unable to complete course requirements due to illness or other circumstances beyond their control. This applies to all gradable courses, including pass/fail (S/U).

Students may only be eligible for an "I" when:

- the majority of the student's work for a course has been completed before the end of the semester.
- the work that has been completed is qualitatively satisfactory

- the student has requested consideration for an "I" grade as soon as possible but no later than the last day of finals week

The student must request consideration for an incomplete grade and obtain an "I" Grade Contract from the instructor of record. Even though the student may meet the eligibility requirements for this grade, the course instructor retains the right to make the final decision on granting a student's request for an incomplete grade. The course instructor and student must complete and sign the "I" Grade Contract Form that describes the work to be completed, the date it is due, and the grade the student would earn factoring in a zero for all incomplete assignments. The due date can be negotiated and extended by student/instructor as long as it does not exceed one semester from the original date grades were due for that course.

The instructor must file a copy of the "I" Grade Contract in the department that offered the course and the Office of Graduate Studies by the date grades are due. The instructor must not require students to either re-register for the course or audit the course in order to complete the "I" grade. Students may register to audit the course with the instructor's approval, but cannot re-take the course for credit until the "I" grade is cleared.

The instructor will be required to complete the I-grade contract online when posting the semester grade at the end of the term, identify the remaining coursework to be completed, the students last day of attendance and the percent of work accomplished to this point. This online contract will be automatically copied to the student's email and to the Registrar.

An "I" grade not cleared within the next academic semester (including summer semester) will revert to the grade noted on the contract. I grades are not computed in the GPA, but the grade noted on the contract will be computed in the GPA, retroactive to the semester the course is taken, if the contract is not fulfilled by the specified date. When the final grade is assigned, if applicable, the student will be placed on academic probation or academically dismissed (refer to Automated Academic Probation Procedures for information). Students cannot be admitted to doctoral candidacy or certified for graduation with an "I" grade.

Example:
- Student has a "B" in the course, not including the grade for the missing assignment, therefore is eligible for an "I"
- Student's grade, including zero for the missed work, would be a "D"
- Student and instructor complete the "I" grade contract, assigning an "ID" (Incomplete +D grade)
- Student earns final grade comprised of all completed course work

If the student does not complete the work as agreed upon in the contract by the noted deadline:
- "I" automatically drops off and the "D" remains
- GPA is recalculated for the current semester and retroactively recalculated for the semester in which the "I" was granted.

Although the instructor establishes the deadline for completion of the work, the deadline may only extend through the end of the subsequent semester.

Missing (M)

The University policy is to issue an M grade automatically when the instructor does not submit any grade for a graduate student. Until it is removed, the M is not computed in the GPA. To resolve the missing grade, students receiving an M grade must contact their instructor. If the instructor is not available, the student must contact the instructor's college dean. Courses with an M grade may not be applied to the degree program requirements. Students cannot be certified for graduation with an M grade.

Continuing Registration Grades (Z)

The Z grade shall be used to indicate continuing registration in multi-semester internship or thesis courses where the final grade to be assigned will indicate the complete sequence of courses or satisfactory completion of the thesis. Upon satisfactory completion of a multi-semester internship or thesis, the final grade assigned will be an S. The Office of Graduate Studies submits the change of grade for the last registration of thesis courses once the thesis has been accepted for publication.
Note: Graduation will not be certified until all courses have been satisfactorily completed. No grade changes will be processed after the student has graduated except in the case of university error. Procedures requiring petitions are processed through the Office of Graduate Studies.

Probation

Any student who is not in good standing at the end of a semester shall be considered on probation as of the following semester. The college or program may also place students on probation for other reasons as designated by the college or program. Notification of probation shall be made to the student in writing by the Office of Graduate Studies, with a copy to the College Dean. At the end of each probationary semester, the department shall recommend, in writing, to the College Dean one of the following:

1. Removal of probation
2. Continued probation; OR
3. Dismissal from the degree program.

Students on probation may only enroll in graduate courses (5000-6000 level) that are part of the approved degree requirements specified in the graduate catalog. Students with a GPA below 3.00 for two consecutive semesters will be prevented from registering for courses without the permission of the College Dean. The College Dean will notify the Office of Graduate Studies in cases of academic dismissal. To be readmitted, the student will need to reapply for admission, meeting the admission criteria in place at the time.

Voluntary Withdrawal

A student may withdraw from the university without grade penalty by the University deadline. Information on the different types of withdrawal (i.e., withdrawing from a single class – see the Drop section, an entire semester, or from the degree program itself) can be obtained from the Office of Graduate Studies. Appropriate alternative calendar dates may apply. Students who withdraw may not continue to attend classes.

Transfer of Credit (From institutions External to USF St. Petersburg)

Up to 50% of total program hours at the graduate-level (5000-7999) structured coursework with a grade of B (3.00) or better, taken as a non-degree seeking student at USF may be applied toward their graduate degree provided the courses are required for the major.

- The 50% is calculated based on the total minimum hours of the major as reflected in the individual major listings in the USF Graduate Catalog in effect at the time of initial enrollment for that major. For doctoral majors, this percentage is based on the post-baccalaureate minimums.

- Courses must not have been used for a completed degree. For students with coursework from a completed degree, the specific course requirements in common across both majors may be waived with the substitution of other approved coursework at the discretion of the major.

- Unstructured courses and courses with Pass/Fail grades are not eligible for application of credit. Grades from courses taken at USF are calculated in the USF GPA and are noted on the transcript.

- Courses must not be older than ten years at the time of graduation or course currency is required.

Exceptions:

All non-degree seeking coursework that is applicable to the major, taken from USF will be applied in the following situations, pending approval of the graduate major, College, and Office of Graduate Studies.

Structured graduate courses taken as

- an undergraduate student that were not used as part of the undergraduate degree requirements. a Graduate Certificate student.
- a degree-seeking student, where the student is approved for a Change of Major to another graduate major.

Students in an existing Major who drop to non-degree seeking status and seek readmission to the same major do not qualify for the exception.

Approval Process and Deadlines for Transfer of Credit:
Acceptance of transfer of credit requires submission of the Transfer of Credit Form and approval of the:

- Graduate Director
- College Dean or designee
- Director of the Office of Graduate Studies or designee

The graduate/major department will be responsible for evaluating, approving, and initiating the transfer using established criteria to ensure academic integrity of the coursework. This must be completed and submitted to the Office of Graduate Studies no later than the end of the first semester the student is enrolled in the graduate major.

Application of Internal Credit (internal transfer within USF St. Petersburg)
Students may request application of internal credit of graduate-level (5000-7999) structured coursework toward their graduate major taken at USF St. Petersburg, with the approval of the graduate major, college and the Office of Graduate Studies for courses taken as:

- an undergraduate student that were not used as part of the undergraduate degree requirements, except in cases of an accelerated degree program approved through Undergraduate Council, Graduate Council and SACSCOC.

- a non-degree seeking student (including graduate certificate students, INTO students, etc.)

- a degree-seeking student, where the student is approved for a change of major to another graduate major.

For application of internal credit:

- May transfer only graduate-level (5000-7999) structured coursework with a grade of B (3.00) or better. Courses with Pass/Fail grades are not eligible for transfer. Grades from courses taken at USFSP are calculated in the USF GPA and are noted on the transcript.

- May transfer in up to 50% of a given graduate major's total minimum hours as reflected in the individual major listing in the USFSP Graduate Catalog in effect at the time of initial enrollment for that major. *Note – the 50% maximum includes the total of both external transfer of credit and internal application of credit.* Individual graduate majors may have more restrictive requirements.

- May transfer in the total hours taken as part of a completed Graduate Certificate to the graduate major with major approval.

- Must not have been used for a completed degree. For students with coursework from a completed degree, the specific course requirements in common across both majors may be waived with the substitution of other approved coursework at the discretion of the major.

- Must not be older than ten years at the time of graduation or course currency is required.

Approval Process and Deadlines for Application of Internal Credit:
Acceptance requires completion of the Application of Credit Form and approval of the

- Graduate Faculty Advisor
- College Dean or designee
- Office of Graduate Studies

The graduate major/department will be responsible for evaluating, approving, and initiating the application of credit using established criteria to ensure academic integrity of the coursework. This must be completed and submitted to the Office of Graduate Studies no later than the end of the first semester the student is enrolled in the graduate major.

Dual Degree Programs

A student may pursue two graduate degrees simultaneously through a formal, approved Dual Degree designation. The goal is for a student to attain two graduate degrees. A dual degree designation is required for a student pursuing two separate graduate degrees. Either through an established relationship between two degree programs or through an individualized designation, up to 15% of the total combined credit hours of structured coursework for the two degree programs may be shared, with Department (if applicable), program, College and Office of Graduate Studies approval. With the exception of shared structured coursework, all separate degree requirements must be met (e.g. two theses, one thesis/one applied research project, etc.)

Example: A student is enrolled in two master's programs, each requiring 30 credits minimum. The student may share 9 hours (equal to or less than 15%) across the combined 60 total minimum credit hours required.

The degrees may be conferred concurrently or sequentially-however, both degrees must be conferred within the time limit for the first degree to which the student is admitted.

Procedures for applying for a Dual Degree Program are available through the Office of Graduate Studies. Dual Degree Programs are formalized through the College, Office of Graduate Studies and the USF St. Petersburg Graduate Council.

Off-Campus Courses and Programs

Graduate courses and programs are offered at locations other than USF Tampa, USF Sarasota-Manatee and USF St. Petersburg. Information on course enrollment procedures for off-campus courses and programs may be obtained from the college in which the courses or programs are offered.

Section 7 – University Degree Requirements

Degree Requirements

The following sections describe the University's minimum requirements established by the Office of Graduate Studies (in conjunction with the Colleges, Programs and the USF St. Petersburg Graduate Council) for Master's degree programs. However, individual programs and colleges may establish additional or more stringent requirements.

Student Responsibilities

The University of South Florida St. Petersburg and all colleges, departments and programs therein establish certain academic requirements that must be met before a degree is granted. These requirements concern such things as curricula and courses, majors and minors, and academic residence. Faculty and graduate program directors are available to help the students understand and help students to arrange to meet these requirements, however, students are responsible for fulfilling them.

At the end of a student's course of study, if all requirements for graduation have not been satisfied, the degree will not be granted. For this reason, it is important for students to acquaint themselves with all regulations and to remain informed throughout their college careers. Courses, programs, and requirements described in the catalog may be suspended, deleted, restricted, supplemented, or changed in any other manner at any time at the sole discretion of the University and the USF system Board of Trustees.

Graduate Faculty Definition

The University of South Florida St. Petersburg recognizes Graduate Faculty and Affiliate Graduate Faculty. Only Graduate Faculty, and Affiliate Graduate Faculty approved for such purposes, may serve as the Instructor of Record for graduate level courses.

Graduate Faculty is defined to consist of all tenure-track or tenured faculty appointed at the Assistant, Associate, or Professor rank, who hold a terminal degree or equivalent in their discipline. Graduate faculty members are eligible to teach graduate courses and may direct and serve on masters, specialist, and doctoral level committees.

Affiliate Graduate Faculty membership may be granted by the Vice Chancellor for Academic Affairs (or designee) to individuals whose skills or expertise meet criteria established by the College. Affiliate Graduate Faculty membership is in effect for a specified period of time and specific purposes. Affiliate members may be eligible to teach graduate courses, to serve on masters, specialist, and doctoral level committees, to direct master's and specialist's level committees, and to co-direct doctoral level committees, at the discretion of the College. Emeritus Professors and retired or recently resigned professors may also be appointed as Affiliate Graduate Faculty with the approval of the College Dean and the Vice Chancellor for Academic Affairs (or designee).

Graduate Faculty is defined as noted above; Colleges and Departments may have additional requirements. The Office of Graduate Studies will maintain a list of Graduate Faculty along with approval guidelines from the Colleges and Departments. For a current list of Graduate Faculty and Affiliate Graduate Faculty in any program contact the program director or coordinator. Reference: USF Policy 10-115: http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-10-115.pdf.

Master's Degree Requirements

Minimum Hours A minimum of thirty (30) hours is required for a master's degree, at least sixteen (16) hours of which must be at the 6000 level or above (no 7000 level above for master's students); the remaining hours must be at the 5000 level or above. At least twenty (20) hours must be in formal, regularly scheduled course work, ten (10) of which must be at the 6000 level.

Lower level undergraduate coursework may not be used to satisfy master's course requirements but may be taken to meet specific prerequisites. All graduate and undergraduate courses taken as a graduate student will be included in the computation of the overall GPA, whether or not they count toward the minimum hours for the degree. Graduate students may not enroll for more than 18 hours in any semester without written permission from the College Dean. The minimum number of credit hours required for each individuals master's degree program is noted in the degree requirements section of the Graduate Catalog for that program listing. Programs with formally approved concentrations must have major core requirements that all students must successfully complete.

Institutional Enrollment Requirement

At least 50% of credits toward a master's degree must be earned through instruction offered by the institution granting the degree. Students at USF St. Petersburg are expected to complete the majority of the required credits at USF St. Petersburg. Students are responsible for consulting with their graduate faculty advisor for information on courses that may be taken outside their degree program, as well as the transfer course policy. Although equivalent course may be offered at other institutions, including those within the USF System, they may not satisfy degree requirements.

Time Limitations

Master's degrees must be completed within five (5) years from the student's date of admission for graduate study. Courses taken prior to admission to the USF St. Petersburg graduate program, for example as non-degree seeking or from other institutions, can be no older than ten years at the time of graduation. Master's (including dual degree programs) that require course work in excess of 50 credit hours may be granted a longer statute of limitations by the University of South Florida St. Petersburg Graduate Council.

Time Limit Extension

In the event that a student nears the end of the time limitation as specified above, but the student needs more time to complete the degree, the student may submit a request for an extension using the Time Limit Extension Request Form, available on the Graduate Studies website: http://www.usfsp.edu/grad. Requests must include:

- the reasons for the delay in completion,
- the anticipated time needed for completion,
- endorsements from the graduate faculty advisor, graduate program, and College Dean or designee,
- a detailed plan of study and timeline for the remaining requirements for the degree

Note: for the time limit extension procedures, if the time limit extension will cause courses taken within the major to be older than 10 years, then a request for course concurrency may be required or the courses may be invalidated toward the degree requirements, per the time limit policy.

If approved, the time limit extension also applies to courses applied toward the degree. However, programs may require additional or repeat coursework as part of the condition at the time limit extension. Students who exceed the time limitation may have their registration placed on hold until a request for extension has been approved. Only one time limit extension request is permitted. Students who are temporarily unable to continue the program should submit a Leave of Absence Request, which extends the time limit for the duration of the approved Leave (see the section on Leave of Absence in the Enrollment Requirements section).

- Note: Time limit extensions are valid for a maximum period of two (2) years from the date of request.

Enrollment Requirements
Refer to the Academic Policies Section

Major Professor
For students enrolled in programs requiring a thesis or for students selecting the thesis option (where thesis and/or a project is required), the Major Professor serves as the student's advisor and mentor. Students should confer with the department to confirm the internal process and timeline for the selection and appointment of the Major Professor. The student must identify a major professor and receive that person's agreement to serve as major professor. The selection of the Major Professor must be approved and appointed by the department as soon as possible but no later than the time the student has completed 50% of the program. Students must have a major professor in order to maintain Satisfactory Academic Progress.

If a major professor cannot be identified or in the event a major professor is unable or unwilling to continue serving on the student's committee, the student is responsible for finding another major professor. Students who are unable to find a replacement major professor should confer with the Program Director for available options (including converting to a non-thesis program if available). The major professor should plan a program of study which, when completed, will satisfy the degree requirements. If no other options exist the student may be requested to voluntarily withdraw from the program or may be honorably withdrawn in good academic standing.

Major Professors must meet the following requirements:

Major Professors must be graduate faculty, as defined by the University, from the student's academic area. Faculty who do not meet this definition may serve as Co-Major Professor with graduate faculty who do meet the definition.

Major Professors must be engaged in current and sustained scholarly, creative, or research activities and have met departmental (or equivalent) requirements.

Major Professors must be approved by the Department Chair (when applicable) or the College Dean to serve as a Major Professor or Co-Major Professor.

In the event a Major Professor leaves the University (i.e. for an appointment at another university, due to retirement, etc.) and the Major Professor is willing to continue serving on the student's committee, the Major Professor then becomes a Co-Major Professor on the committee and another faculty is

appointed as the other Co-Major Professor. It is important that one of the Co-Major Professors be accessible on the university campus for the student to make satisfactory progress on the thesis.

In the event a Major Professor is on temporary leave (e.g. sabbatical, research, etc.), the Major Professor shall coordinate with the Program Director to facilitate the needs of the student.

In some instances a student may choose to have two professors serve as Major Professor. In this situation the faculty are approved as "Co-Major Professors" and jointly serve in that role. Consequently both faculty must sign approval on paperwork pertaining to the student's processing (i.e. committee form, change of committee form, etc.)

The membership of graduate faculty will be based upon criteria developed within the appropriate program or department and approved at the college level. These criteria must be forwarded to the Director of Graduate Studies.

Thesis Committee

Students working toward a thesis degree will have the benefit of a committee of members of the graduate faculty. The committee will approve the course of study for the student and plan for research, supervise the research and any comprehensive qualifying exams, and read and approve the thesis for content and format.

Composition

The committee will consist of either:
- the major professor and at least two other members or
- two co-major professors and at least one other member

Committee members should be from the general research area in which the degree is sought. (Colleges and graduate programs may require additional committee members and specify characteristics).

Member Definition

All graduate faculty, as defined by the university and the college/department, and approved by their department and college, are assumed by the Office of Graduate Studies as qualified to be a member of and/or supervise a Master's Thesis committee. Persons desiring to serve on a Masters committee who are not defined as Graduate Faculty (i.e. visiting faculty, professionals, etc.) by the university and the college/department must submit a curriculum vitae and be approved by the department, college, and the Office of Graduate Studies for each committee.

Committee members must meet the following requirements:
- Be graduate or affiliate graduate faculty as defined by the University
- Have the background and expertise that contributes to the success of the student
- In addition to the requirements specified in the Graduate Faculty definitions, committee membership will be based upon criteria developed within the appropriate program or department and approved at the college level. These criteria must be forwarded to the Office of Graduate Studies.

Approval

Once a committee has been determined, a Supervisory Committee Form needs to be completed by the student and submitted to the Committee Members for original signatures. Check with the College for

instructions and forms. The original appointment form and two (2) copies should be submitted to the College Associate Dean's office for approval. A copy of the approved form should be kept in the student's file.

An approved and current Committee Form must be on file in the program/college before graduation may be certified. Committee forms need to be processed as early in the program as possible, but no later than the semester prior to graduation. (Colleges and departments may institute additional requirements for membership on Supervisory Committees.)

Changes to Committee
Changes to a Supervisory Committee must be submitted on a Change of Committee Form. Check with the College for instructions and forms. Original signatures of faculty being added to the Committee, along with the approval signature of the (Co-) Major Professor(s), must be on the form. Faxed signatures are acceptable.

Faculty who are removed from the Committee are not required to sign the form, provided that the (Co-) Major Professor(s) has signed. In such instances the signature of the (Co-) Major Professor(s) indicate(s) approval of the change, as well as acknowledgment and approval of the change by the removed member. Any non-faculty being added to a committee must submit a Curriculum Vitae (CV) for college approval. Change of Committee Forms should be submitted for approval as soon as the change takes place. Changes to a Committee are official only once approved and filed by the program and college.

Masters Comprehensive Examination
Prior to clearance for the degree, candidates must perform satisfactorily on a comprehensive examination or an alternative method designated by the academic unit to measure student competency in the major area. The comprehensive exam, or designated alternative method, must be completed while in residency (i.e. current active student) at USF, administered by USF faculty, covering content for the USF major. Students must be degree-seeking and enrolled for a minimum of two (2) hours of graduate credit during the semester when the comprehensive examination is taken. If the exam is taken between semesters, the student must be enrolled for a minimum of two (2) hours of graduate credit in the semester before or following the exam.

Thesis
If a thesis is required, it must conform to the guidelines of the University. Refer to the Thesis Guidelines available on the web site of the Office of Graduate Studies at http://www.usfsp.edu/grad for complete information about requirements, procedures, and deadlines. *For enrollment requirements, refer to the Academic Policies section in this Catalog.* T

> The Thesis must conform to one of two formats:
> Option 1- a traditional format inclusive of:
>> Part I: Preliminary Pages
>>> Title Page
>>> Dedication (optional page)
>>> Acknowledgments (optional page)
>>> Table of Contents
>>> List of Tables (if applicable)
>>> List of Figures (if applicable)
>>> Abstract

Part II: Text (divided by chapter or section headings)
Part III: References / Bibliography
     Appendices Title Page
     Appendix Sections (if applicable)

Option 2 – collection of articles/papers instead of chapters. References may be at the end of each section or at the end of the entire document. Copyright permissions (if applicable) must be noted on the Acknowledgments page.
Part I: Preliminary Pages
     Title Page
     Dedication (optional page)
     Acknowledgments and copyright permission (if applicable)
     Table of Contents
     Abstract
Part II: Introduction Chapter Review
Part III: Collection of Articles/Papers
Part IV: Conclusion/References/Bibliography
     Appendices Title Page
     Appendix Sections (if applicable)

Deviations from the available format are acceptable if approved in advance by the Supervisory Committee and the Office of Graduate Studies.

*Students must be first author of articles and papers used for the thesis, or another designation or affirmation that the student had primary intellectual responsibility for the publication.

Directed Research
Directed Research hours may satisfy up to 50% of the thesis hour requirement.

Exchange of Thesis for Non-Thesis Credit
If a student changes from thesis to non-thesis during a semester and is currently enrolled in thesis credit, the current thesis credits may be exchanged without academic penalty if a Graduate Drop/Add Petition is filed with the Office of Graduate Studies no later than the last day to withdraw without Academic Penalty (see Academic Calendar for applicable dates).

If a student has enrolled in thesis credits but elects to change to a non-thesis track or program, the accumulated thesis credits may not be exchanged or converted to another non-structured credit. The thesis hours will remain on the transcript and will retain the "Z" grade.

Thesis Defense
Policies and procedures for the thesis defense are handled within the College and Program. Contact the College and Program for requirements.

Thesis Final Submission Guidelines
Information on requirements for submission of the finished and approved manuscript copies is available on the Office of Graduate Studies website: http://www.usfsp.edu/grad. Students who fail to submit the final copy of a thesis by the posted submission deadline will be considered for graduation in the following semester and must therefore apply for graduation by the posted deadline, enroll in a

minimum of two (2) thesis hours for that subsequent semester, and meet the submission requirements as posted on the Graduate Studies website. Only after the Office of Graduate Studies has approved the manuscript can the student be certified for the degree.

Changes after Publication
Once a thesis is approved and accepted for publication, it cannot be changed.

Release of Thesis Publications
The University recognizes the benefits from collaboration with sponsors on research projects but also recognizes the possibility of conflicts of interest in the disclosure of the results of the collaborations. While the sponsor's economic interests in the restriction of disclosure should be considered, the University has a primary mission to extend knowledge and disseminate it to the public and the broader academic community.

The University's "Statement of Policy Regarding Inventions and Works" acknowledges the possible need for delays in publication of sponsored research to protect the sponsor's interests, but it provides no definite guidelines for the restrictions of publication beyond the statement: "Disclosure delays mutually acceptable to the Inventor, the Vice President for Research, and the sponsor, if any, are authorized in order to allow patent applications to be filled prior to publication, thereby preserving patent rights..."

To protect the University's primary goal from undue compromise, the University has adopted the following guidelines:

1. The recommendations of sponsors regarding publication of research results should be considered advisory rather than mandatory.
2. In support of academic discourse and the mission to promote and share academic works, theses will be released for worldwide access once submitted to and approved by the Office of Graduate Studies. In the event that a patent or copyright application provides reason to delay the release of the thesis, a petition to request a one year delay may be submitted to the Office of Graduate Studies for consideration. Such requests must be received by the format check of the thesis.
3. Students should not be delayed in the final defense of their theses by agreements involving publication delays.

Duty to Disclose New Inventions and Works

USF 0.300 http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-0-300.pdf and USF 12.003 http://regulationspolicies.usf.edu/regulations/pdfs/regulation-usf12.003.pdf.

For information about the requirements of this policy contact the Division of Patents and Licensing at (813) 974-0994.

Thesis Change of Grade

In the semester in which the final manuscript has been received, reviewed, and certified for permanent filing in the University Library, the Office of Graduate Studies submits the change of grade from "Z" to "S" for the last registration of thesis hours to the Office of the Registrar when all grades are due at the end of the semester.

Section 8 – Graduation Information

Application for Degree (Graduation)

To graduate, a student must submit the Application for Degree online through OASIS. This application must be submitted in the term of expected graduation by the deadline noted in the academic calendar. If a student applies for graduation and is not approved, a new Application for Degree must be submitted by the deadline in a new term. In order for the degree statement to appear on a student's academic record, the student must file the aforementioned application whether or not participation in the commencement ceremony is desired. Inquiries concerning approval or denial of graduation should be made to the appropriate college.

It is the student's responsibility to clear all "I" (Incomplete) and "M" (Missing) grades in all courses and to provide official transcripts of all transferred course work needed for graduation at least three weeks prior to the end of the term in which he/she expects to graduate.

Graduation Requirements

It is the student's responsibility to make sure that he/she has met all degree requirements as specified in the Policies and Degree Requirements section of this publication, as well as any College and Program requirements for the degree.

Commencement

Students may not participate in commencement exercises until all requirements for the degree sought have been fulfilled. Students graduating from USF St. Petersburg may not participate in commencement ceremonies at other USF system institutions (with the exception of Summer semester graduates - they may participate in the commencement ceremony offered at USF Tampa as none is provided through USF St. Petersburg).

Diplomas

Diplomas are mailed to the student's permanent address approximately six (6) weeks after commencement. Students with a change of address need to fill out a change of address form at the Registration and Records office. Questions regarding diplomas and degree certification should be directed to the Registration and Records Office at 727-873-4645.

Letters of Certification

Students in need of verification of the degree prior to receiving their diploma may request a Letter of Certification. This letter specifies that the student has finished all of the requirements for the degree and the date the degree will be conferred. The letter must include the student's university identification number (UID), name of degree program and official name of the degree. The Major Professor, the College Dean (or designee), the Vice Chancellor for Academic Affairs (or designee), and the Registrar must sign the Letter of Certification. A template for the Certification Letter is available on the Office of Graduate Studies website at http://www.usfsp.edu/grad.

Posthumous Degrees or Degrees in Memoriam

Reference -USF Policy 10-047
http://regulationspolicies.usfedu/policies-and-procedures/pdfs/policy-10-047.pdf.

The University of South Florida St. Petersburg may award a posthumous master's degree to a student who was in good standing at the time of his or her death and who had completed all substantive requirements for the degree. The University may also award masters in memoriam to a student who was in good standing at the time of his or her death.

To award a non-thesis degree, the student would need to have completed all courses required for the degree. Courses required for the degree, in which the student is enrolled at the time of his or her death, must have been completed to the satisfaction of the faculty so that passing grades might be posted. All other requirements (e.g., grade point average, tests, etc.) must have been satisfied as well.

To award a thesis degree, all courses must have been completed as described above and the thesis must be sufficiently complete to the satisfaction of the faculty so that certification of completion may be posted to the student's record.

Procedures for Award of Posthumous Degrees or Degrees in Memoriam

The Program Director or Department Chairperson, on his or her own initiative or upon the request of the family of the student, may recommend a posthumous degree, or a degree in memoriam, by forwarding the recommendation to the respective dean of the College. If approved by the Dean, the recommendation with supporting documentation will be forwarded to the Vice Chancellor for Academic Affairs for approval. If the Vice Chancellor for Academic Affairs approves the recommendation, the Office of Registration and Records will be notified and the degree will be awarded at the next commencement ceremony or will be presented to the student's family in an appropriate setting.

Diplomas for posthumous degrees will be identical to other degrees awarded in the same colleges and majors. Diplomas for Degrees in Memoriam will be prepared to read "Master of Arts in Memoriam, Master of Science in Memoriam," etc., depending upon the degree the student was pursuing at the time of his or her death.

Transcripts

Transcripts of a student's USF system academic record may be requested by the student through the Office of Records and Registration. A student's academic record can only be released upon authorization of the student. Students requesting transcripts may do so in person or by writing to the Office of the Registrar. By law, the request must include the student's signature and date. For transcripts to be issued, the student must have no financial obligations to the University. Transcript request forms are available on the Records and Registration website at: http://www.usfsp.edu/registrar

Degree statements are posted approximately five weeks after the graduation ceremony. Current term grades are posted approximately one week after the final exams end. If grades for the current term are needed, clearly indicate that the transcript request is to be held for grades.

Section 9 – Degrees, Majors and Concentrations

New graduate degree programs, majors and concentrations are continually under development and may now be approved and available. For the most current list of authorized degrees, programs and concentrations for USF St. Petersburg, please visit: http://www.usfsp/edu/grad.

Definitions

Degrees
A degree program is defined as an organized curriculum leading to a college degree in an area of study recognized as an academic discipline by the higher education community, as demonstrated by assignment of a Classification of Instructional Programs (CIP) code by the National Center for Educational Statistics, or as demonstrated by similar programs existing at other colleges and universities, and having designated faculty and instructional resources. Each degree program is assigned a CIP code and included in the State University System Academic Degree Program Inventory.

Examples: Master's of Arts (M.A.), Master's of Science (M.S.), Master's of Business Administration (M.B.A.), Master's of Liberal Arts (M.L.A.), Master's of Education (MEd).

USF System Curriculum Definitions – also reference USF 3.038 Academic Curricular Offerings
https://www.systemacademics.usf.edu/curriculum/definitions/php

Degree Program
- An organized curriculum leading to a degree in an area of study recognized as an academic discipline by the higher education community, as demonstrated by assignment of a unique Classification of Instructional Programs (CIP) code and name by the National Center for Educational Statistics.
- Each degree program shall have designated faculty effort and instructional resources, and shall include at least one program major, but may have multiple majors.
- Five degree levels are used in the SUS: Bachelor (B), Master (M), Specialist (S), Research Doctoral, and Professional Doctoral (P).

Source(s): SUS BOG Regulation 8.0111; USF System Policy 10-36

Example: CIP 13.0301 Curriculum and Instruction – Masters (M)

Major
- An organized curriculum offered within a degree program.
- A major shall be reasonably associated with the academic discipline within the degree program under which it is offered and shall share common core courses with any other majors within the same degree program. The major is the student's primary field of study.
- Although in some cases the major and the degree program names are synonymous, only the degree program shall be assigned a CIP Code and shall be included in the State University System Academic Degree Program Inventory
- The number of credit hours for a major for each degree level shall be established by the University in accordance with State regulations and SACSCOC minimum requirements.

- The degree program majors are coded within BANNER.

Source(s): SIS BOG Regulation 8.0111; USF System Policy 10-36; SACSCOC Core Requirement 2.2

Example:
CIP 13.0301 – M
  Curriculum and Instruction (CUR)

Degree (Degree Designator)
Specific credential associated with a degree program and associated major(s). For USF St. Petersburg, these include:

Master level: Master of Arts (M.A.); Master of Science (M.S.); Master of Liberal Arts (M.L.A.); Master of Education (M.Ed.)

Example:
CIP 13.0301 – Master's level degree designator(s):
  M.Ed. (CUR)

Concentration
- Any organized set of courses that is offered as part of a major and enhances or complements the degree program to be awarded in a manner which leads to specific educational or occupational goals, and/or from different disciplines that provide an interdisciplinary focus.
- Concentrations are defined by the University with the credit-hour length set in accordance with University policy, except that the number of credit hours shall not equal nor exceed the number of credit hours establish for the major at the same degree level.
- Each concentration is coded within BANNER.
- At the graduate level, concentrations appear on both the transcript and the diploma.

Source(s): SUS BOG Regulation 8.011; Faculty Senate Undergraduate and Graduate Councils; USF Undergraduate and Graduate Catalogs.

CIP 13.0301 – M.A. in Elementary Education (AEE) with a concentration in:
  Elementary Math and Science (MSM)

Track, Specialization, Cluster, etc.
- Areas of study within a major or concentration that are less formal and not tracked in the student's BANNER record.

Certificate
- An organized set of courses offered as a distinct area that leads to specific educational or occupational goals.
- Certificates may consist of courses that are part of a major or courses that are created outside of a major. The number of credit hours for a certificate shall be set by the University.

Example:

The Infant-Family Mental Health graduate certificate is designed for individuals who are

interested in gaining knowledge, skills and connections to become powerful change agents for infant-family mental health in the systems and communities where they live and work. It is a 12-hour certificate appropriate for students who have earned a bachelor's degree in psychology, social work, criminology, human development, early childhood education, nursing or other social science-related fields, and will benefit practitioners in allied health professions and social and behavioral sciences. The program does not provide specialized clinical training in specific forms or modalities but rather provides broad coverage of knowledge necessary for informed and competent work in early childhood mental health, prenatal and health-related positions, child protection and child welfare positions, and other fields working with families of infants and toddlers.

Authorized Degrees – Graduate and Professional Degree Programs

Degree Code	Degree Description	Graduate Programs Offered Under that Degree
M.A.	Master's of Arts	Elementary Education Dual Track (initial certification/ESOL) Elementary Education with focus on Curriculum & Literacy Elementary Education with Concentration in Math/Science Reading Education English Education Journalism and Media Studies Digital Journalism and Design Environmental Science and Policy (not accepting applications) Psychology
M.A.T.	Master's of Arts in Teaching	Exceptional Student Education (not accepting applications)
M.S.	Master's of Science	Teaching of Middle Grades STEM Environmental Science and Policy (not accepting applications) Conservation Biology
M.L.A.	Master's of Liberal Arts	Liberal Arts (not accepting applicaitons Liberal Arts with Concentration in Florida Studies
M.Ed.	Master's of Education	Educational Leadership
M.B.A.	Master's of Business Administration	Business Administration Business Administration with Concentration in Healthcare Analytics
M.Acc.	Master's of Accountancy	Accountancy

Graduate Certificates

The following is a list of graduate certificates offered at USF St. Petersburg:

1. Business Analytics
2. Data Analytics
3. Food Writing and Photography
4. Geospatial Science
5. Infant-Family Mental Health
6. Leadership Management
7. Middle Grades Digitally-Enhanced Mathematics Education
8. Sustainable Entrepreneurship
9. Florida Studies

Graduate Certificate Policies

The areas of study for graduate certificates are created within the mission of graduate education. Students will be awarded certificates upon completion of specific course work, which has been approved by the USFSP Graduate Council. The graduate certificate is not defined as a degree by the Office of Graduate Studies; rather, it is a focused collection of courses that, when completed, affords the student some record of distinct academic accomplishment in a given discipline or set of related disciplines. Moreover, the graduate certificate is not viewed as a guaranteed means of entry into a graduate major. While the courses comprising a graduate certificate may be used as evidence in support of a student's application for admission to a graduate major, the certificate itself is not considered to be a prerequisite.

Student Eligibility and Admission Criteria

Students must apply and be accepted into the Graduate Certificate to be eligible to receive a certificate. The prerequisites and general criteria of eligibility for admission to any graduate certificate area of study include:

1. An earned baccalaureate degree or its equivalent from a regionally accredited college or university with a cumulative GPA of 3.00 or higher. Colleges and/or academic units that administer the graduate certificates may have more stringent admission requirements.

2. Each Graduate Certificate specifies the requirements for admission including standardized test scores (if applicable), and other similar criteria as part of the application. However, prospective non-degree seeking graduate certificate students must meet University graduate admissions grade point average requirements.

   Students who wish to pursue a graduate certificate must apply through the Office of Graduate Studies and be admitted to the graduate certificate. Students are encouraged to contact the coordinator prior to applying.

Non-degree Seeking Students

All non-degree seeking students who wish to pursue approved graduate certificates should apply for admission to the certificate through the Office of Graduate Studies as soon as possible for maximum benefit, but must apply to the Certificate and complete required coursework within five years of taking

the first course applicable to the certificate. Students must submit a Completion Form, approved by the sponsoring graduate program for the Graduate Certificate to be awarded.

Degree Seeking Students

All degree seeking students who wish to pursue approved graduate certificates must apply for admission to the Graduate Certificate through the Office of Graduate Studies. The application must be received prior to conferral of the graduate degree that includes the same coursework. Students who have completed all coursework must apply for admission to the certificate and submit a Completion Form (approved by the sponsoring graduate program) prior to the deadline to apply for graduation by the fourth week of the semester in which the student plans to graduate.

Degree seeking students who are <u>pursuing a Graduate Certificate in a discipline outside of their graduate major</u> must apply for admission to the Graduate Certificate through the Office of Graduate Studies. The application must be received prior to the deadline to apply for graduation (by the fourth week of the semester) in which the student plans to graduate. Required coursework for the certificate must be completed within five years of taking the first course applicable to the certificate. Students must submit a Completion Form (approved by the sponsoring graduate program for the certificate to be awarded.

Certificate students not currently enrolled in a degree-granting graduate major, will be admitted into a separate classification within the University, and will be classified as "Graduate Certificate Students." This separate classification will permit the University to monitor statistical and enrollment data for certificate areas of study, and will allow inclusion of such efforts in the annual reports and academic planning.

Students pursuing a graduate certificate are required to meet the same academic requirements as those defined for degree-seeking students to remain in "good standing."

All graduate certificate students must meet all prerequisites for course in which they wish to enroll.

Should a graduate certificate student subsequently apply and be accepted to a graduate major, the University's Transfer of Credit Policy applies. It is up to the graduate program to determine the number of credits that may be transferred in from the Graduate Certificate into the Graduate Major, up to the 49% of the number of credits required for the graduate major. Any application of such credit must be approved by the degree-granting college and must be appropriate to the major. See the Transfer of Credit Policy for more information.

Certificate Requirements

To receive a Graduate Certificate:

1. Students must successfully complete certificate requirements as established by the University. Graduate Certificate student will be held to the academic standards for all graduate students as specified in the Graduate Catalog.

2. Students must submit a completion form. Degree-seeking students must submit this form before graduating from their graduate major. Non-degree seeking students must submit this form no later than one semester after completing their certificate course work.

3. Students must have been awarded a bachelor's or higher degree to be eligible. Graduate Programs may have additional eligibility requirements (i.e. GPA, test score, etc.).

Section 10 - College of Arts and Sciences at USF St. Petersburg

University of South Florida St. Petersburg
140 Seventh Avenue South, DAV 100
St. Petersburg, FL 33701

Web address:	www.usfsp.edu/coas
Phone:	727-873-4156
Fax:	727-873-4526
College Dean:	Dr. Magali Michael
Associate Dean:	Dr. Susan Toler

Mission Statement:

To embody the principles and activities of a research-intensive liberal arts college, where our graduates will be trained within their disciplines and thus prepared for meaningful careers and lifelong learning. Our students will have the critical skills, broad outlook and civic awareness that will make them engaged and productive citizens. In short, our students will be recognized as citizen scholars.

Major Research Areas:

See individual departments.

Types of Degrees Offered:

Master of Arts (M.A.)
Maters of Liberal Arts (M.L.A.)
Master of Science (M.S.)

Master of Arts (M.A.) –

Digital Journalism and Design
Environmental Science and Policy (not accepting applications)
Journalism and Media Studies
Psychology

Master of Liberal Arts (M.L.A.) -

Liberal Arts (interdisciplinary study) (not accepting applications)
Liberal Arts (with concentration in Florida Studies)

Master of Science (M.S.) -

Conservation Biology
Environmental Science and Policy (not accepting applications)

Graduate Certificates:

Food Writing and Photography
Geospatial Studies
Infant-Family Mental Health
Data Analysis
Florida Studies

Master of Science (M.S.) Degree in Conservation Biology

Program Admission Deadlines:

Fall:	February 9
Spring:	September 7 for best consideration
Summer:	No summer admission
Minimum Total Hours:	30
Program Level:	Masters
CIP Code:	26.1307
Department Code:	CON
Program (Major/College)	BSP MS
Concentration Code:	n/a

Contact Information:

Graduate Faculty Advisor: Dr. Sean Doody

Program Website: https://www.usfsp.edu/conservation-biology

Graduate Studies Website: http://www.usfsp.edu/grad

Program Information:

This thesis-based degree provides graduate training in conservation, biodiversity, ecology, organismal biology and taxonomy. Graduates of this program find careers in research and management of biodiversity, including natural resource agencies at the local, state and federal level, not-for profit conservation groups, environmental consultancy firms, and zoos, aquariums and botanical gardens.

Accreditation:

USF St. Petersburg is accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS). Please see the accreditation section of this catalog for additional details.

Admission Information

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements: Admission to the M.S. program requires:

1. a B.S. in Biological Sciences*, or a related discipline from a regionally accredited college or university
2. a GPA of 3.0 or higher for the final 60 credit hours towards the completion of the bachelor's degree
a GRE (general test)
3. Three (3) letters of recommendation addressing academic and research potential of the applicant,

4. A statement of research interests, including potential thesis topic.

*Applicants that do not have an undergraduate Biology degree can still apply if they have completed at least fifteen (15) credit hours in upper-level undergraduate work in biology relevant to a graduate degree in Conservation Biology (e.g. ecology, genetics, evolution, zoology, botany).

**Acceptance to the program also requires that a faculty member in the program has agreed to serve as a thesis mentor for the applicant. Applicants are encouraged to contact individual faculty members about potential thesis research opportunities and topics of interest before completing their application.

Degree Program Requirements

Core (24 credit hours):

BSC 6865	Conservation Biology Theory	3
BSC 6457	Quantitative Analytical Methods	3
PCB 5326	Florida Ecosystems	3
BSC 6933	Seminar in Ecology	3
BSC 6381	Biodiversity	3
BSC 6910	Directed Independent Research	3
BSC 6971	Thesis	6

Biology Electives (6 credit hours from the following):

PCB 5307	Limnology	3
PCB 5307L	Limnology Lab	1
PCB 6556	Conservation Genetics	3
BSC 6932	ST: Selected Topics in Biology	1-4
BSC 6940	Internship in Conservation Biology	1-3
BSC 6381C	Conservation Biology Techniques	1-3

Biology graduate course electives or graduate elective courses from other graduate programs within the USF System (USF St. Petersburg, USF Sarasota/Manatee or USF Tampa) may be used to satisfy the three (3) of the elective hours with prior approval from the graduate faculty advisor.

*Courses will be offered using selected topics while awaiting assignment of a permanent course number.

Graduation Requirements

Graduation requirements include completion of a minimum of 30 credit hours of graduate-level core and approved elective course work, a minimum 3.0 graduate GPA, and the successful oral defense and publication-ready manuscript of the student's thesis research. Students must complete all course work and thesis defense within 5 years of admission to the program.

Graduates of the Conservation Biology M.S. program will be able to: Identify and discuss the key conservation issues in Florida and the southern U.S. in relationship to terrestrial, freshwater, and marine habitats,

1. Discuss the factors that influence and support biodiversity,
2. Describe the biology of plants and animals native to Florida, and identify appropriate methods to study population and community-level characteristics,
3. Discuss, evaluate, and apply scientific principles to the conservation of biodiversity and natural habitats,

4. Design appropriate monitoring or experimental approaches to study native and invasive species, and develop testable hypotheses,
5. Collect data using established field methods, and analyze data using appropriate statistical methods and ecological and mathematical modeling tools,
6. Discuss, interpret, and evaluate scientific and policy literature relevant to biodiversity and conservation,
7. Effectively communicate research results and significance to general and scientific audiences using written text and oral presentations.

Master of Arts (M.A.) Degree in Digital Journalism and Design

Program Admission Deadlines:

Fall:	May 1 for best consideration
Spring:	October 15 for best consideration

Minimum Total Hours: 33-39

Program Level: Masters

CIP Code: 09.0499

Department Code: JMS

Program (Major/College) MDJ AP

Concentration Code: n/a

Graduate Faculty Advisor: Dr. Mark Walters
(727) 873-4544

Program Website: http://djd.usfsp.edu

Graduate Studies Website: http://www.usfsp.edu/grad

Program Information

This master's program can be done either fully online or in a hybrid (combination face-to-face and online) manner. It will consist of two tracks. The applied track will prepare students for the newly emerging and rapidly changing field of digital journalism, which brings new technologies and evolving value to bear on the report of global news and events. The academic track will prepare students in both emerging digital news and communication technologies while adding an academic dimension for those wishing to continue their studies or pursue a Ph.D. in mass communications or other related field.

Accreditation:

USF St. Petersburg is accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS). Please see the accreditation section of this catalog for more information.

Admission Information

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

- A baccalaureate degree in Journalism or related field from a regionally accredited institution with a grade point average (GPA) of 3.00 or better in the last two years (60 hours) of undergraduate work or a cumulative GPA of 3.00 or better in all undergraduate work attempted toward the baccalaureate degree. Applicants whose undergraduate GPA is lower than a 3.00 may present professional experience in journalism or a related field for consideration.

- One of the following (A or B) is required:
  A. An essay between 800 and 1000 words that describes how this degree will serve the applicant's future plans. The essay should include references to the applicant's prior and planned online contributions and demonstrate an understanding of web-based communication and its journalistic potential.
  B. Passing a digital-skills evaluation exam given by the department. Applicants have to score at least 80 percent. Students who fail the evaluation may still get into the program by taking an intensive, online 3 credit summer workshop offered by the department. The 3 credits earned by successful students will be on top of the credits required to complete the degree. It will not substitute for any of them.

Degree Program Requirements

Requires 33 hours of sequenced, graduate level course work, including completion of a final project. The sequence of required courses follows below.

Courses

Required Core (15-18 credits, depending on project or thesis)

JOU 6114:   Multimedia Reporting / Storytelling (3)
MMC 6206:   Mass Communications Ethics (3)
MMC 6400:   Mass Communications Theory {with Research Methods} (3)
MMC 6612:   Law and Mass Media (3)
MMC 6950:   Applied Research Project (3) or MMC 6971: Thesis (6)

Electives (15-18 credits, depending on project or thesis)

JOU 6135: Video Storytelling 1 (3)
JOU 6360: Digital Media Technology (3)
MMC 5146: Web Publishing (3)
MMV 6936: Data Visualization (3)
MMC 6936: Data Storytelling (3)
MMC 6936: Multimedia Production (3)
GEB 6118: Business Enterprise (3)
MMC 6936: Food Writing (3)
MMC 6936: International Communications Seminar (3)
MMC 6936: Journalists in the Movies (3)
MMC 6936: Magazine Design & Production (3)
MMC 6936: Media and Elections (3)
MMC 6936: Media Management Seminar (3)
MMC 6936: Neighborhood News Bureau (3)
MMC 6936: Photojournalism (2)
MMC 6936: Sizzling Images (3)
MMC 6936: Social Media (3)
MMC 6936: Sports Journalism (3)
MMC 6936: Video Storytelling 2 (3)
PGY 5619: Photojournalism 1 (3)
RTV 5416: Race, Gender and Class in Media (3)
VIC 6007: Visual Communication Theory and Design (3)

Italics= Suggested courses for distance learners to complete program with digital focus.

* Courses are sequenced with sequences dependent upon the semester in which the student is first enrolled and whether the program will be taken full time or part time. Students should check with the program advisor to map out an individual course of study.

This total number of credits will vary based upon several factors. Students undertaking the thesis option will receive 6 credits. Students undertaking the ARP option will receive 3 credits. Student will be required to take a digital "entrance exam." Those who do not pass will be required to take a 3-credit summer workshop. Students who do not need to take this and who do the ARP (3 credits) will leave the

program with a total of 33 credits. Students who take the summer workshop (3 credits) and elect to do the thesis option (6 credits) will leave the program with 39 credit-hours.

Graduation Requirements

Completion of all graduate program requirements with a cumulative GPA of 3.0 or higher.

Master's of Arts (M.A.) Degree in Environmental Science and Policy

Degree Information

Not currently accepting applications for this program

The M.A. program in Environmental Science, Policy and Geography is designed for students who are seeking advanced studies in preparation for professional and academic careers in the environmental field.

Program Admission Deadlines:

Fall	July 1 for best consideration*
Spring:	November 1 for best consideration
Summer:	April 15 for best consideration

*Applicants wishing to be considered for financial assistance from the program should submit their completed applications no later than March 15.

Minimum Total Hours:	36
Program Level:	Masters
CIP Code:	03.0104
Department Code:	ESP
Program (Major/College):	ESP AP

Contact Information:

Graduate Program Advisor:	TBA
	(727) 873-4540
Program Website:	http://www.usfsp.edu/espg/programs
Graduate Studies Website:	http://www.usfsp.edu/grad

Program information

Not currently accepting applications for this program

Our Master of Arts degree in Environmental Science and Policy is designed to provide students with an advanced, graduate-level background in the disciplines that comprise the environmental sciences. It is designed to allow students to gain an understanding of ways to balance social and economic needs with environmental considerations. It will enable students to learn how to use resources sustainably and to become aware of the role of values in issue formulation and policy-making. The MA will train students to develop and manage human institutions, organizations and behaviors that restore, protect and sustain the environment with an in-depth study of both natural and human systems and their interdependence. It will equip students with a core foundation in environmental science, policy and management for careers that will serve as a bridge between environmental scientists and environmental policy-makers and managers.

The program is coursework-intensive and does not require a thesis. This degree is not designed for students who wish to pursue basic research in the environmental sciences or related fields. The MA will provide students with an advanced education that will enable them to assume a wide variety of career options including in governmental environmental agencies (local, state and federal), consulting firms that work with governmental agencies and private companies, and non-profit organizations that focus on environmental protection and advocacy. The program is an effective terminal degree for those

seeking entry to these fields at a high career level. It also provides an opportunity to enhance the skills and boost the careers of current professionals.

This degree program offers two tracks Environmental Management and Sustainable Development (ESMD) and Environmental Education (EE). Students should choose one of the tracks. Graduate students in the Master of Arts in Environmental Science and Policy will satisfactorily complete, with a grade of B or better, 12 credit hours of core and 21 credit hours from track courses for ESMD track and 15 credit hours from EE track courses. Each program also requires students to take electives. Students with ESMD track should take 3 credit hours and EE track 6 credit hours of electives. Three (3) credit hours of final project are required to successfully complete the required 36 credit hours for the Master's degree.

Not currently accepting applications for this program

Accreditation:
USFSP is accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS). Please see the accreditation section of this catalog for additional details.

Admission Information
Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Not currently accepting applications for this program

- Applicants must have earned a baccalaureate degree from a regionally accredited undergraduate institution with a minimum undergraduate GPA of 3.0 on a 4.0 scale.

- A statement of no longer than one page, single-spaced of your reasons for applying to the program, a brief discussion of your academic interests professional goals and how you think the MA will help you achieve those goals and whether or not you intend to study full-time or part-time.

- Three letters of recommendation from people well qualified to assess your potential for graduate study.

- Applicants must submit scores from the Graduate Record Exam (GRE) taken within the previous five (5) years. A combined score of 295 on the qualitative and quantitative sections of the GRE is required.

Degree Program Requirements
Requires 30 hours of graduate coursework, 6 hours of applied research project, write a report and present to the department, and must pass a comprehensive examination.

Core Requirements (12 credit hours; all students in the MA)
EVR 6937	Seminar in Environmental Policy	3
GEO 6116	Perspectives in Environmental Thought	3
EVR 6946	Major Themes in Environmental Science	3
EVR 6908	Directed Individual Study	6

Environmental Management and Sustainability Track:
EVR 6937	Seminar in Environmental Policy	3
GEO 6116	Perspectives in Environmental Thought	3
EVR 6946	Major Themes in Environmental Science	3

EVR 6908	Directed Individual Study	6
EVR 5956	Methods of Sustainable Development	3
GEO 6115	Qualitative Research Methods	3
EVR 6320	Environmental Management	3
EVR 6116	Coastal Hazards and Resilience	3
EVR 6924	ST: Environmental Impact Statements	3
GIS 5049	GIS for Non-Majors	3 **OR**
GIS 6100	Advanced Geographic Information Systems	3
EVR 6216	Advances in Water Quality Policy and Management	3

Education Track:

EVR 6937	Seminar in Environmental Policy	3
GEO 6116	Perspectives in Environmental Thought	3
EVR 6946	Major Themes in Environmental Science	3
EVR 6908	Directed Individual Study	6
SCE 6616	Trends in Science Education	3
EDG 6627	Curriculum and Instruction	3
SCE 6346	Foundations of Environmental Education Theory	3
SCE 6644	Interpreting and Teaching the Environment	3
EVR 6934	ST: Environmental Science: Ecology	3 **OR**
PCB 6933	Seminar in Ecology	3
	Nine (9) credit hours elective (requires pre-approval)	6

Available Electives:

EVR 6115	Global Climate Change	3
CHM 6938	Environmental Chemistry	3
STA 5166	Statistical Methods	3
GIS 6100	Advanced Geographic Information Systems	3
GEO 6428	Seminar in Advanced Human Geography	3
GEO 6286	Advanced Water Resources	3
EVR 6931	Environmental Soil, Water and Land Use	3
EVR 6876	Wetlands, People and Public Policy	3
SCE 5937	Selected Topics in Life Science or Physical/Earth Science	3
EDG 6931	Current Trends in Assessment	3
HIS 6939	ST: Environmental History	3
CLP 6937	Grant Writing	3
EDG 6841	Foundations of Educational Research	3
EDF 6492	Applied Education Program Evaluation	3
ANT 5406	Ethnobotany: People, Plants and Culture	3
OCE 6940C	Experimental Learning in Marine Science	3
HIS 6634	Florida Environmental History	3

Final Project (6 credit hours)

Each student will register for three (3) credits of EVR 6908 (Directed Individual Study) during each of his/her last two (2) semesters, for a total of six (6) credit hours. Each student will work with the instructor to identify a relevant final project of interest and which should result in professional growth to the student. The final project requires students to integrate and apply the knowledge and skills

acquired in their coursework via completion of a project. The final project results will be written and presented to program faculty. To ensure quality control, each report will be evaluated by the instructor and the graduate coordinator. Final projects* will typically fall into one of the three following themes:

Meta-Analysis Projects—these projects involve bringing together the seminal ideas, theories and concepts of a field in an original synthesis to produce new insights and observations that may move the community's understanding forward. Such a project would likely involve primarily archival and document analysis, based on the relevant scientific literature of the chosen field.

Focused Fieldwork Projects—these projects utilize accepted research methods to answer a specific question concerning anything from local ecosystem functions, services or health; spatial distribution of environmental phenomena; to public attitudes about ongoing environmental conflicts. Focused Field Projects may use a variety of research methods, including but not limited to, survey research, photographic techniques, water or soil sampling techniques, laboratory analysis, spatial analysis and mapping. They are generally more narrowly defined than topics chosen for master's theses, and may be very specific to particular places and times. A Focused Field Project demonstrates your ability to collect appropriate data in order to an answer a practical and applied question. Such skills are useful in many entry-level environmental positions.

Policy Case Studies— these studies use a combination of document, archival and possible field methods to analyze policy approaches to, or public attitudes toward, a specific environmental problem, usually at the local or state scale. A thorough comparison of the possible impacts of specific policies intended to resolve an environmental problem may be explored with the goal of suggesting ideal outcomes in the form of a policy analysis report. Case studies may also involve measuring the effectiveness of particular organizations such as non-profits or government agencies or the impact of specific entities such as local industries or corporations on well-defined ecosystems. Outcome assessments of specific regulatory laws regarding the environment may also be analyzed.

*Students may propose a final project outside the scope of the aforementioned themes but you must seek approval from the professor teaching the Final Project course.

Comprehensive Exam

Upon completion of all Theme 1 and Theme 2 courses, students will sit a Comprehensive Exam designed to assess that they have mastered the major concepts expected of a master's-level graduate. A test bank will be created by the instructors of these courses and Comprehensive Exams will consist of questions chosen from the test bank. Students will be allowed two opportunities to pass the Comprehensive Exam. Students must pass the Comprehensive Exam to earn the M.A. degree.

Masters of Science (M.S.) Degree in Environmental Science and Policy

Degree Information **(no longer accepting applications for this program)**

The M.S. program in Environmental Science and Policy is designed for students who are seeking advanced studies in preparation for professional or academic careers in environmental fields or preparation to enter doctoral programs in environmental science or related fields.

Program Admission Deadlines:

Fall:	July 1 for best consideration*
Spring:	November 1 for best consideration
Summer:	April 15 for best consideration

*Applicants wishing to be considered for financial assistance from the program should submit their completed applications no later than March 15.

Minimum Total Hours: 36

Program Level:	Masters
CIP Code:	03.0104
Department Code:	ESP
Program (Major/College):	ESP AP

Contact Information:

Graduate Program Advisor:

(727) 873-4540

Program Website: http://www.usfsp.edu/espg/programs

Graduate Studies Website: http://www.usfsp.edu/grad

Program Information: **(no longer accepting applications for this program)**

The M.S. in Environmental Science and Policy program in the College of Arts and Sciences at USF St. Petersburg brings interdisciplinary expertise in the social and natural sciences together with advanced technologies, such as remote sensing and geographic information systems, to prepare students to effectively address complex environmental issues. Program graduates will be able to:

- Develop solutions to the increasingly urgent problems resulting from human impacts on the environment;
- Contribute to efforts to better understand and respond to those impacts; and
- Protect and manage environmental resources in the face of population growth and economic change.

Graduates of the Master of Science in Environmental Science and Policy will be highly skilled and imaginative individuals, prepared for leadership roles in local, state, and federal agencies; non-profit organizations working to ameliorate environmental concerns; and private scientific, research, environmental and engineering firms. Our graduates will have the analytical skills to understand and impact the socio-cultural and political context in which environmental problems are created and ameliorated, and the scientific expertise to fully explore and analyze the consequences of ongoing environmental change and interaction.

Students may select one of two focused tracks: Applied Environmental Science and Society-Environment Interactions.

The *Applied Environmental Science focus* provides you with rigorous training and first-hand experience in the application of a variety of scientific principles and techniques in biology, chemistry, geology, remote sensing and geographic information systems. Students pursuing this track can explore such pressing topics as water resource use and management (groundwater, surface water, and marine), habitat and species conservation, and the impacts of development and land use change on terrestrial, aquatic and wetland resources. Particular attention is paid to the unique challenges facing the Gulf Coast and central Florida region. Students graduating with a focus in Applied Environmental Science will be experienced environmental scientists, prepared to tackle pressing ecological and environmental problems from a variety of approaches. Potential employers range from the Florida Department of Environmental Protection, the Florida Wildlife Research Institute, and state's water management districts, to private engineering and environmental consulting firms, and non-profit environmental agencies.

The *Society-Environment Interactions focus* provides you with an in-depth understanding of the socio-cultural and political contexts in which specific environmental problems arise and are addressed. Popular conceptual frameworks in human-environment interaction, such as political ecology, sustainable development, and integrated ecosystem management, are applied to a range of environmental problems at the local, national and global scales. Contemporary policy challenges, such as the need to balance economic growth along Florida's fragile coastline with the desire to preserve ecosystem services and wildlife habitat, are explores within historical, geographic and socio-political contexts. Graduates with Society-Environment Interactions focus will be well prepare to make significant contributions to policy analysis and development in public agencies, private consulting firms, or non-profit institutions.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Admission Information
Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
- Applicants must have earned a baccalaureate degree from a regionally accredited undergraduate institution with a minimum undergraduate GPA of 3.0 on a 4.0 scale and be able to demonstrate an appropriate undergraduate background in the disciplines supporting the applied environmental sciences. The program's Graduate Committee will review all applications to determine adequacy of undergraduate backgrounds.
- Applicants must submit scores from the Graduate Record Examination (GRE) with a combined score of at least 295 from the verbal and mathematical sections.
- Applicants should include three letters of recommendation from people qualified to assess their potential for graduate study.
- Applicants should include a statement of their goals, objectives, research interests and reasons for applying to the program.

Degree Program Requirements
Graduate students in the Master of Science in Environmental Science and Policy will satisfactorily complete, with a grade of B or better, fifteen (15) credit hours of interdisciplinary core courses, and fifteen (15) hours of approved graduate-level electives, and a minimum of six (6) graduate credit hours

of Thesis Research. A maximum of six (6) credit hours may be taken outside the program with the prior approval of the graduate coordinator. No more than six (6) credit hours of research will count toward the required 36 hours for the master's degree.

Required Courses:

EVR 6936	Seminar in Environmental Science	3
EVR 6937	Seminar in Environmental Policy	3
STA 5166	Statistical Methods	3
GEO 6116	Perspectives in Environmental Thought	3
EVR 6971	Thesis Research	6

And **one** from the following:

GLY 5932	Environmental Geology	3
PCB 6933	Seminar in Ecology	3
CHM 6938	Environmental Chemistry	3

In addition to the 15 hours of core courses listed above, students will select 15 credit hours from approved electives with help of the graduate faculty advisor/graduate coordinator.

Electives:

BSC 6932	Special Topics in Biology Landscape Ecology:	
	* Stream Ecology	3
	* Systems Ecology	3
CHM 6938	Special Topics in Atmospheric Chemistry:	
	*Aquatic Chemistry	3
	*Environmental Toxicology	3
ENY 5505	Aquatic Entomology	3
EVR 6934	Special Topics in Environmental Science Instrumentation	3
	*Methods in Environmental Chemistry and Geology	3
	*Numerical and Computer Models in Environmental Science	3
	*Water Resources Management	3
	*Scientific/Technical Writing	3
	*International Environmental Policy	3
	*Environmental Security	3
GEO 5145	Advanced Remote Sensing	3
GEO 6115	Advanced Field Techniques	3
GEO 6166	Multivariate Statistical Methods	3
GEO 6428	Seminar in Advanced Human Geography	3
GEO 6475	Political and Cultural Ecology	3
GEO 6147	Advanced Geographic Information Systems	3
GEO 6306	Environmental Applications of GIS	3
GEO 6286	Advances in Water Resources Geography	3
GEO 6372	Seminar in Global Conservation	3
GLY 6828	Groundwater Geochemistry	3
GLY 6827	Advanced Hydrogeology	3

GLY 6739	Selected Topics in Geology:	
	*Isotope Geochemistry	3
	*Paleolimnology	3
	*Solute Transport	3
HIS 6939	Seminar in Environmental History	3
PCB 5603L	Limnology	4
PCB 5415	Behavioral Ecology	3
ZOO 5456L	Ichthyology	4

USFSP partners with the USF College of Marine Science (located on the USF St. Petersburg campus). Some courses offered by the College of Marine Science may be used toward elective requirements for this degree upon. Students should check with the graduate program advisor for a list of eligible electives. Up to six (6) graduate credit hours may be taken from outside the program with the prior approval of the graduate program advisor.

Thesis

All graduate students in the M.S. in Environmental Science and Policy program will enroll in a minimum of six (6) graduate credit hours of thesis research. No more than six (6) credit hours of thesis will count towards the required thirty-six (36) hours for the Master's degree.

Graduate Certificate in Geospatial Science

Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	November 30 for best consideration

Minimum Total Hours: 12

Program Level: Graduate Certificate

Contact Information: Dr. Barnali Dixon

bdixon@usfsp.edu

(727) 873-0137

Graduate Studies Website: http://www.usfsp.edu/grad

Program Information:

Geospatial Science offers training in the theory and application of geospatial analysis to contemporary problems in environmental management, urban planning, business management, disease and health management, crime analysis, defense intelligence, anthropologies and other fields. The courses listed under requirements will provide students and professionals with a strong understanding of the fundamental theories and concepts underlying spatial analysis and extensive hands-on experience.

Geospatial Science is the quantitative and analytical study of relationships of events and processes in space and time that is in high demand in the workforce. In recent years, powerful new technologies and techniques have emerged that greatly improve our ability to acquire, archive, analyze and communicate information regarding people, places and other processes on or near the Earth's surface. These same technologies and analytical frameworks allow us to combine this information into multi-tiered databases describing complex and inter-related aspects of our physical and social world. Such databases can then be analyzed in novel ways that take the spatial nature of disparate phenomena and processes into account. The insights produced by these analyses are revolutionizing many fields of science, decision making, government operations and businesses, and through now-commonplace consumer products such as web-based mapping systems and Global Positioning systems (GPS) unites, are directly impacting the everyday lives of ordinary individuals.

Students completing the certificate will acquire the skills to become more competitive and successful in the environmental management, urban planning, homeland security and defense services contracts and private/public workforce for which command of spatial analytical thinking and GIS and related technologies are rapidly becoming imperative. Completion of the course requirements will prepare students to complete the professional certification exams such as 1) GISP offered by http://www.gisci.org/ and 2) Certified Mapping Scientists (GIS/LIS) offered by http://www.asprs.org/Certification-Program/Certified-Mapping-Scientist-GIS-LIS.html.

Admissions Information

Must meet University requirements (see section of this catalog entitled Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Admission to the program is competitive and based on academic merit and/or relevant work experience as noted of the GISP professional certification site located at:
https://www.gisci.org/login.aspx?ReturnUrl=%2f

Students will be selected on the basis of information included in the application.

The minimum requirements for entry are:
- Completion of an introductory GIS course or proof of successful workshop completion within the previous 5 years, or equivalent work experience as determined by the certificate admissions selection committee.
- A bachelor's degree from a regionally accredited institution with a cumulative GPA of 3.0 or higher in all coursework used to confer the degree **OR**
- A bachelor's degree from a regionally accredited institution with an upper level (upper 60 hours) GPA of 3.0 or higher.

Certificate Program Requirements

Courses are sequential. Enrollment in subsequent courses is contingent upon successful completion of the previously-sequenced course.

Students are required to take 3 courses and 1 elective. Students MUST earn a B or higher in the core courses and a B or higher or satisfactory grade in electives. USFSP does not guarantee the availability of sequenced courses should students need to repeat courses as a result of unsatisfactory performance.

Required Courses:

GIS 5049	Geographical Information System for non-majors	3
GIS 6100	Geographical Information Systems	3
GIS 6038	Advanced Remote Sensing	3
GIS 6306*	Environmental Application of GIS	3

*GIS 6306 is an elective and could be substituted by taking one of the following independent study courses: GEO 6908, GLY 6905, OCE 6908, CCJ 6905, ANG 6905, or BSC 6905

Students seeking a graduate certificate in Geospatial Sciences must meet additional graduate student requirements (i.e. time limitations and good academic standing) as outlined in Section 4 of this catalog entitled Graduate Certificate Students.

Upon completion of this certificate, students will be able to demonstrate the following learning outcomes and will be prepared to take examinations for professional certifications offered by GISCI and ASPRS.
1. Understanding of the nature of spatial data and the principles of geographic information systems (GIS).
2. Comprehensive understanding of geospatial technologies including GIS, RS and GPS.
3. Define a problem in terms of its spatial analytical context.
4. Specify models and methodology for spatial analysis.
5. Compare and evaluate alternative spatial analytical methods using various combinations of geospatial technologies and modeling methods.

Master of Arts (M.A.) Degree in Journalism and Media Studies

Program Admissions Deadlines:

Domestic Students Fall:	July 1 for best consideration
Domestic Students Spring:	October 15 for best consideration
Domestic Students Summer:	April 15 for best consideration
International Students Fall:	June 1 for best consideration
International Students Spring:	October 15 for best consideration
International Students Summer:	March 1 for best consideration

Note: Students who wish to be considered for graduate assistantships should submit a completed application by March 15 to begin in the Fall semester and by October 15 to begin in the Spring semester.

Minimum Total Hours:	36
Program Level:	Masters
CIP Code:	09.0401
Program (Major/College):	MJM AP
Concentration Code:	n/a

Contact Information:

Graduate Faculty Advisor:	Dr. Mark Walters
	djd@usfsp.edu
Program Website:	http://www.usfsp.edu/journalism
Graduate Studies Website:	http://www.usfsp.edu/grad

Program Information:

The Master's of Arts degree in Journalism and Media Studies at USF St. Petersburg prepares students for careers in print, electronic and digital media or for college-level-teaching, and provides a foundation for those students who elect to continue their studies at the PhD level.

Journalism and Media Studies emphasizes advanced practice and study in writing, reporting, ethics, and theoretical issues.

Accreditation:

Journalism and Media Studies is accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS) and the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

Admission Information

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

- A baccalaureate degree from a regionally accredited institution, with a grade point average (GPA) of 3.00 or better in the upper level (upper 60 hours) of undergraduate work or a cumulative GPA of 3.00 or better in undergraduate work.

- A Graduate Record Examination (GRE), Miller Analogies Test, LSAT, or GMAT score is required.

- A detailed statement of intent for seeking an M.A. in journalism, including discussion of: the student's background, especially the academic and professional aspects; the specific scholarly, policy, or professional issues in which the student has an interest; how the student's background

has prepared him/her to excel in the journalism M.A. program; and how the student intends to apply the master's education upon completion of the graduate program.

- Three letters of recommendation from qualified people who are familiar with the nature of the work required of graduate students in the social sciences, and who can address the student's ability to excel in this type of work.

- Three examples of professional or academic writing or professional visual work (such as photo documentaries and video stories).

- Official transcripts from all previously attended institutions of higher learning.

- A copy of a recent resume.

- We welcome applicants from undergraduate or graduate disciplines other than journalism or mass communications. However, those without formal education in journalism/mass communications or without professional experience will be required to take JOU 6114: Multimedia Reporting once admitted.

Degree Program Requirements

Requires 36 hours of course work, including either a thesis for 6 credit hours or a professional applied research project for 3 credit hours. At least 16 of the 36 hours must be at the 6000 level and at least 20 hours must be taken in regularly scheduled coursework. As an option, students may designate an area of specialization and take up to 12 hours through other departments of the university with prior approval of the graduate faculty advisor. Students are also eligible to participate for academic credit in certain seminars offered by the Poynter Institute, adjacent to the campus of USF St. Petersburg, upon recommendation by the department and acceptance by Poynter staff.

Required Courses:

MMC 6400	Mass Communications Theory	3
MMC 6612	Law and the Mass Media	3
MMC 6206	Mass Communication Ethics	3

Those who elect the **thesis option** must also take:

| MMC 6421 | Research Methods in Mass Communications | 6 |

Electives:

An academic advisor, chosen from among departmental faculty, will help students decide on elective courses in journalism and media studies, or outside the department, taking into consideration the student's academic goals and professional experience.

Area of specialization:

Students may take up to 12 hours of the 36-hour requirement in an area of specialization through other departments of the university. Some of the areas of specialization available include business, criminology, education, environmental studies, Florida Studies, health communication, philosophy and urban anthropology.

Practicum – MMC 6945 - Students in the journalism program are eligible to apply for a professional practicum (internship) in a journalism, mass communications or media studies setting after completing 12 hours in journalism/mass communications. Students intern in a variety of settings, including newspapers, television stations, radio stations, magazines, non-profit organizations, corporations, and in

online media environments. Before a student's internship is approved, a faculty supervisor confirms that the practicum involves professional-level assignments and responsibilities. Working with an advisor, students help set up the internship and obtain a written description of duties and work hours from the editor or manager who will be overseeing the practicum. Students may not receive internship credit for any currently paid position. The academic credit for an internship, ranging from one to three hours, is assigned according to the number of days worked per week during the semester. No more than three credits of practicum will count toward the student's 36 hours for graduation. Typically, a practicum would come in the final semester of study; however, exceptions are sometimes granted.

Comprehensive Exam

Graduate students in the Department of Journalism and Media Studies must pass a comprehensive written examination, which can be taken after completing 21 hours of course work, including all three core courses. All core courses must be passed with a grade of C or better. Students should monitor their coursework and advise the graduate program director the semester before they plan to take the comprehensive exams. The graduate director will authorize the student's eligibility to take the exam.

Students must elect either the Applied Research Project option or the Thesis option for their culminating project. Students are urged to review the requirements for the culminating project on the program website: http://www.usfsp.edu/journalism/programs-summary/grad/culminating-work.

Applied Research Project

The project is a serious, culminating experience in journalistic production and presentation for print, electronic, or website format. The topic may be the investigation of an issue or problem related to journalism/mass communications or the piece may be itself an example of in-depth journalistic work. But, it should be intended to be published for a lay, trade, or professional audience. Applied research projects may be visual presentations, such as photography, Web design, or video or may be text-centered. The project offers a creative and professionally-oriented approach to an in-depth study. Students should plan to spend 45 or more hours completing the ARP, to fulfill the requirements of a 3-credit course of study.

The project does not require the graduate research methods course, as a project is not an academic research activity. While the project is a different mode from the thesis for illustrating developed skills and competencies, we hold our students to the same degree of rigor as that required of the thesis.

The project gives students a wide degree of latitude but requires that they put together a substantial piece of work beyond what they have done in their classes.

For example, a design-oriented student might come up with a well thought-out approach to redesigning all or a section of a newspaper or a website. A student might report and write a series of articles on race relations, integrating the elderly into community life, crime and violence, or any other issue that affects the community. The project is expected to demonstrate a new and fresh approach to thinking about the topic.

The Thesis

A thesis is a work of original scholarship that adheres to commonly accepted rules of academic publication. Students doing a thesis are required to take MMC 6421-Research Methods in Mass Communications.

The thesis requires academic research that uses at least one of the following six research methodologies: analytical research, historical research, legal research, clinical or ethnographic research, qualitative research, or quantitative research. Any academic research involving the study of living human beings requires review by USF's Institutional Review Board.

Analytic research includes examination of text or visual themes, framing, comparisons, or other content analyses. This type of research also includes ethical analysis of cases or issues.

Historical research includes examination of media accounts or others' perspectives of issues or past events or the close examination of the life of a notable individual.

Legal research involves the study of legal cases or an aspect of legal theory.

Clinical or ethnographic research includes in-depth presentation of a particular case. Material may be gathered through document collection or through participant observation.

Qualitative research involves the collection of human opinion or belief through surveys, questionnaires, or interviews.

Quantitative research includes statistical interpretation of data gathered from documents, field observation, surveys, interviews or experiments that compare test groups with control groups.

Most theses, as with most academic research, usually include a combination of methodologies. For example, the literature review, which is required of every thesis, is a form of historical research. The methodology to explore particular hypotheses or research questions will be determined by student and thesis chair.

Theses usually include an introductory chapter based on the prospectus, outlining the subject, its significance, hypotheses or research questions, and the methodology employed. The second chapter is often the literature review, which relates other research in the area to the student's research and at the same time shows why the study is so valuable. The third chapter should explain the methodology in depth, discussing and defending the process by which the hypothesis will be explored or research questions answered. A fourth chapter should include results and may be presented visually as well as through text. The last chapter concludes with the discussion and need for further research, which provides a complete analysis of the findings and how they relate not only to the research questions but to larger issues as well.

Graduate Certificate in Food Writing and Photography

Certificate Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	October 1 for best consideration
Summer:	March 1 for best consideration

Minimum Total Hours:	12

Program Level:	Graduate Certificate

Contact Information:

Graduate Faculty Advisor:	Janet Keeler
	jkeeler@mail.usf.edu

Graduate Studies Website:	www.usfsp.edu/grad

Program Information:
Food is essential to human existence, and more and more food writers are connecting audience members with what nourishes us. Food is far more than physical sustenance. It defines cultures while challenging the environment. It creates political strife and builds economies. It provides entertainment and is a vehicle for health problems. It's surrounded by legal and regulatory issues and ethical choices that are often not even noticed. But, at its core, food is the story of people. This program will train writers and photographers – veterans and novices – to best convey the stories that they want to tell. From personal essays to restaurant reviews and profiles to research pieces, food writers with the course work this certificate provides can entertain and enlighten their readers while having the background to mix in societal, environmental, ethical, public health and economic implications of what we put into our mouths.

This program can be completed entirely online or through a combination of online and face to face courses or semester-long courses. Certificate Outcomes include improved visual and verbal mass communications skills and a better understanding of the legal and ethical issues that any contemporary communicator in the virtual or physical world might face. Students will conclude the program by completing a mentored and carefully reviewed project that fits their needs, communication methods and paves the path for the future.

Admission Information
Must meet University requirements (see section of this catalog entitled Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
1. A baccalaureate degree from a regionally accredited institution.
2. Minimum cumulative GPA of 3.0 or better on all work completed while towards the completion of the bachelor's degree. Candidates who have less than a 3.0 undergraduate GPA will be considered for the certificate program if they can provide evidence of at least five (5) years' experience in an area related to the Food Writing Certificate program. This includes work in culinary arts, restaurant or food management, or work that involved substantial writing for print, broadcast or the web.

3. A cover letter describing the applicant's interest in this program.

Certificate Program Requirements
Twelve (12) graduate credit hours. This program requires two courses and two electives. These courses do not apply to any other graduate certificate.

Required Course (Fall semesters):
MMC 6936	Food Writing	3

Required Course (Spring semesters):
MMC 6936	ST: Food in Communications	3

Elective Choices Fall:
JOU 6114	Multimedia Reporting	3
HIS 6936	ST: Food and History (face-to-face)	3
MMC 6936	ST: Social Media	3
MMC 5146	Web Publishing	3
MMC 6910	Independent Research in Mass Communication	3

Elective Choices Spring:
MMC 6936	ST: Intro to Blogging	3
MMC 6936	ST: Sizzling Images Food Photography (alternative schedule five consecutive Saturdays; face-to-face)	3
JOU 6114	Multimedia Reporting	3
MMC 6910	Independent Research in Mass Media	3

Possible Elective Choices Summer:
MMC 6936	ST: Food and Travel Writing in France and Germany (Study Abroad, up to 6 credits)	varies
MMC 6936	ST: Intro to Blogging	3

Students seeking a graduate certificate in Food Writing and Photography must meet additional graduate student requirements (time limitations and good academic standing) as outlined in Section 4 of this catalog entitled *Graduate Certificate Students*. Students in degree programs who wish to add this certificate to their elective options in their degree program, should seek the advice of the graduate faculty advisor in their program.

Master of Liberal Arts (M.L.A.) Degree in the Liberal Arts Program

Program Admission Deadlines: **(no longer accepting applications for this program)**

Fall:	July 1 for best consideration
Spring:	November 1 for best consideration
Summer:	April 15 for best consideration

Minimum Total Hours:	33
Program Level:	Masters
CIP Code:	24.0101
Department Code:	HUM
Program (Major/College):	MLA AP
Contact Information:	Dr. Lisa Starks
	starks@usfsp.edu
	(727)873-4158
Program Website:	http://www.usfsp.edu/vva/master-of-liberal-arts
Graduate Studies Website:	http://www.usfsp.edu/grad

Program Information:

The MLA in Liberal Studies offers two "build your own" tracks.

In the *Focused Studies Track*, students explore a particular subject from within the larger perspective of the liberal arts, earning 18 of the 33 required hours in a specific discipline. As part of their core requirements, students may take courses in pedagogy and education, theory, or research methods, which would enable them to teach at the community college or university lower level (within the discipline of the 18 earned hours), continue on for doctoral work, or work in areas related to their chosen field of study.

In the *Interdisciplinary Studies track*, students build their own unique degree from various disciplines (e.g. culture and the environment, ethics and the workplace, social justice and engagement etc.), and related core requirements, preparing them for study or professional careers in related areas, including work for non-profits and other businesses.

Accreditation:

USF St. Petersburg is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools.

Admission Information:

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements:

- Baccalaureate degree from a regionally accredited institutions with at least a 3.0 cumulative GPA or a GPA of 3.0 or higher on the upper two years (upper 60 hours) of baccalaureate work (student who do not meet this requirements must submit a standardized test score as outlined below*).

- Written statement (2-3 pages) addressing the applicant's reasons for enrolling in the MLA program, major or scholarly interests, educational and career goals. Writing sample (a substantial term paper, e-portfolio, or other evidence of academic or professional writing ability).

- Three (3) letters of recommendation. Letter should be from people who have supervised the applicant's academic or professional work.

*Students who do not meet this requirement must submit a GRE test score with at least a 153 or higher score on the verbal section and at least a 4.5 (on a 6 point scale) on the essay portion. The GRE must have been taken with the previous five years. The following alternative standardized tests, also taken within the previous five years, will be considered on a case by case basis: LSAT, GMAT, or MAT (at the discretion of the Graduate Admissions Committee).

Degree Program Requirements (no longer accepting applications for this program)

Students may choose from one of two track options:

Track One – Focused Studies in Liberal Arts
Requirements:

Total minimum credit hours: 33 hours
18 credit hours credit hours must be taken with a particular disciplinary field at the 5000 level or above
9 elective credit hours from approved course list – 5000 level or above
6 credit hours thesis or 6 credit hours non-thesis project option

ENG 6009	Introduction to Graduate Studies*	3
ENC 6745	Composition Pedagogy **OR**	3
MMC 6421	Research Methods in Mass Communication **OR**	3
EDG 6931	Role of Education in a Democracy	3
PHI 6605	Ethics in Private and Professional Life**	3 **OR**
ENG 6939	Graduate Seminar: Issues in Rhetoric and Literature	3

*Required of all students and must be taken in the first Fall semester of study
**This course may be taken following completion of all other coursework except thesis or project.

Comprehensive Exam: All students are required to pass a comprehensive exam in three areas of specialization within their main focus. (Examples: a student working on a focused track in English Literature might have the following three areas: American Literature, British Literature and World Literature; a student in American Studies might have the following areas: American Literature, American History, and American Politics). These areas will be determined with the program director.

All students must select either a Thesis Option or a Non-Thesis Project Option:

Thesis Option: Students will complete a 50-80 page thesis (scholarly research for an academic audience) on a topic approved by a thesis committee of three (3) faculty members, one of whom serves as Thesis Director. During the course of their thesis work, students must be enrolled for at least six (6) hours of thesis credit. Students will defend the thesis orally before this committee and the Program Director. Students must receive a unanimous vote of approval by the committee in order to graduate. OR

Project Option: Students will complete and alternative project under the direction of two (2) faculty members, one of whom serves as Project Director. Projects are applied in nature and geared toward a lay or trade audience. Projects may include the following: a substantive website, curriculum, or program design; a substantive professional e-portfolio; a substantive article for a trade publication; a

creative/artistic work or exhibition. The student will present, exhibit, or showcase their project before the committee and Program Director, as well as an invited audience, if appropriate to the type of project. The project type and its topic must be approved by the project committee and the Program Director. During the course of work on the project, students must be enrolled for at least six (6) credit hours of project credit. Students must receive a unanimous vote of approval by the committee to graduate.

Track Two – Interdisciplinary Studies in Liberal Arts
Requirements:

Total minimum required hours: 33 credit hours
27 credit hours at 5000 level or above from approved course list
6 credit hours of thesis or 6 credit hours non-thesis project option

ENG 6009	Introduction to Graduate Studies*	3
ENC 6745	Composition Pedagogy **OR**	3
MMC 6421	Research Methods in Mass Communication **OR**	3
EDG 6931	Role of Education in a Democracy	3
PHI 6605	Ethics in Private and Professional Life**	3 **OR**
ENG 6939	Graduate Seminar: Issues in Rhetoric and Literature	3

*Required of all students and must be taken in the first Fall semester of study
**This course may be taken following completion of all other coursework except thesis or project.

Comprehensive Exam: All students are required to pass a comprehensive exam in three areas of specialization within their main focus. (Examples: a student working on a focused track in English Literature might have the following three areas: American Literature, British Literature and World Literature; a student in American Studies might have the following areas: American Literature, American History, and American Politics). These areas will be determined with the program director.

All students must select either a Thesis Option or a Non-Thesis Project Option:

Thesis Option: Students will complete a 50-80 page thesis (scholarly research for an academic audience) on a topic approved by a thesis committee of three (3) faculty members, one of whom serves as Thesis Director. During the course of their thesis work, students must be enrolled for at least six (6) hours of thesis credit. Students will defend the thesis orally before this committee and the Program Director. Students must receive a unanimous vote of approval by the committee in order to graduate. OR

Project Option: Students will complete and alternative project under the direction of two (2) faculty members, one of whom serves as Project Director. Projects are applied in nature and geared toward a lay or trade audience. Projects may include the following: a substantive website, curriculum, or program design; a substantive professional e-portfolio; a substantive article for a trade publication; a creative/artistic work or exhibition. The student will present, exhibit, or showcase their project before the committee and Program Director, as well as an invited audience, if appropriate to the type of project. The project type and its topic must be approved by the project committee and the Program Director. During the course of work on the project, students must be enrolled for at least six (6) credit hours of project credit. Students must receive a unanimous vote of approval by the committee to graduate.

Master of Liberal Arts (M.L.A.) Degree with Concentration in Florida Studies (FST)

Degree Information
This is a concentration offered under the MLA Degree in the Liberal Arts Program and offered only at USF St. Petersburg.

Program Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	October 15 for best consideration
Summer:	April 15 for best consideration

Minimum Total Hours: 33

Program Level: Masters
CIP Code: 24.0101
Department Code: HUM
Program (Major/College):   MLA AP
Concentration Code: FST

Contact Information:

Graduate Faculty Advisor: Dr. Christopher Meindl
                                       cmeindl@usfsp.edu
                                       (727) 873-4961

Program Website:
https://www.usfsp.edu/floridastudies/master-of-liberal-arts

Graduate Studies Website:
http://www.usfsp.edu/grad

Program Information
The Florida Studies concentration of the Master of Liberal Arts Program allows students to specialize in history or geography/environment to sample a broad array of interdisciplinary classes. Florida-based classes may be taken in the fields of History, English, Ecology, Geology, Geography, Political Science, and Journalism and Media Studies.

Accreditation:
The University of South Florida St. Petersburg is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools.

Admission Information:
Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements:
- Baccalaureate degree from a regionally accredited institution with an undergraduate GPA of 3.0 or better in upper level (upper 60 hours) course work toward a baccalaureate degree or cumulative undergraduate GPA of 3.0 or better. Students who do not meet the minimum GPA requirements may be required to submit a minimum GRE score of 153 on the verbal section and a minimum 144 on the quantitative section.
- Students must submit a writing sample (an undergraduate term paper, book review, or essay) or evidence of artistic work.

- Two (2) letters of recommendation
- A 1-2 page letter outlining the student's academic interests, goals and objectives related to graduate school and beyond, relevant life experiences, and a faculty member whose academic interests are most relevant to that of the student.

Degree Program Requirements:
All graduate students in the Florida Studies Concentration shall complete a total of at least 33 credit hours of graduate level coursework.

Required Courses:

AMS 6026	Florida and Regional Studies	3
AMS 6908	Independent Study*	3 **OR**
AMS 6940	Internship	3
AMS 6915	Directed Research* (non-thesis option)	3 **OR**
AMS 6971	Thesis	6

*Note: Prefix and Course numbers may vary depending upon which track (plan of study) a student chooses – see below.

Research Proposal Defense
In addition to completion of the required hours, all students will produce and defend a written research proposal under the direction of their Major Professor. The proposal defense shall serve as a comprehensive exam.

Thesis or Non-Thesis Option
All Florida Studies graduate students must choose either a thesis option or a non-thesis option.

Thesis Option: Following successful completion of the Research Proposal Defense, students will complete an 80-120 page thesis (must enroll in at least 6 hours of thesis credit). A successful oral defense of the thesis is required. (Editor's note: the thesis process is not completed until the thesis has been accepted and approved by the USFSP Office of Graduate Studies. For more information, refer to the University Degree Requirements section or visit the Office of Graduate Studies' website: http://www.usfsp.edu/grad.) The thesis defense is open to all faculty and graduate students.

Non-Thesis Option: Following successful completion of the Research Proposal Defense, students will register for AMS 6915 Directed Research (3 credit hours) and write a 25-40 page essay appropriate for submission to an academic journal.

Tracks: In addition to the required hours, the thesis or non-thesis work and the research proposal defense, students must pursue one of three tracks: history, geography/environment, or interdisciplinary studies.

History Track
Required Courses (15 credit hours for non-thesis option; 18 credit hours for thesis option)

AMS 6026	Florida and Regional Studies	3
HIS 6908	Independent Study	3 **OR**
AMS 6940	Internship	
HIS 6914	Directed Research (for those electing non-thesis option)	3 **OR**
HIS 6971	Thesis	6
HIS 6939	Seminar in History: Early Florida History	3
HIS 6939	Seminar in History: Modern Florida History	3

Electives (18 credit hours for non-thesis option; 15 credit hours for thesis option)

HIS 5114	Spanish Paleography I	3
HIS 5116	Spanish Paleography II	3
HIS 6925	Colloquium in History: Incas, Mayans and Aztecs	3
HIS 6939	Seminar in History: Spain - Inquisition to Civil War	3
HIS 6925	Colloquium in History: Spanish Florida: History and Myths in Early America	3
HIS 6925	Colloquium in History: American Culture in the 1960s	3
HI 6939	Seminar in History: Civil Rights Movement	3
HIS 6925	Colloquium in History: American Politics: Kennedy to Trump	3
HIS 6925	Colloquium in History: U.S. 1914-1946	3
HIS 6939	Seminar in History: Slavery and Captivity	3
HIS 6925	Colloquium in History: Food and History	3
HIS 6925	Colloquium in History: U.S. Since 1945	3
HIS 6939	Seminar in History: WWII and the Holocaust	3

Additional history courses may be offered; students should consult their Graduate Faculty Advisor before registering for courses not listed here.

Geography/Environment Track
Required Courses (18 credit hours for non-thesis option; 21 credit hours for thesis option)

AMS 6026	Intro to Florida and Regional Studies	3
GEO 6908	Independent Study	3 **OR**
GEO 6944	Internship	3
GEO 6918	Directed Research (for those electing non-thesis option)	3 **OR**
GEO 6971	Thesis	6
GEO 6113	Qualitative Research Methods	3 **OR**
GIS 6100	Geographic Information Systems	3
GEO 6116	Perspectives on Environmental Thought	3
GEA 6195	Seminar in Advanced Regional Geography	3 **OR**
GEO 6428	Seminar in Advanced Human Geography	3

Electives (15 credit hours for non-thesis option; 12 credit hours for thesis option)

GEO 6605	Contemporary Urban Issues	3

GEO 6286	Advances in Water Resources	3
EVR 6216	Advances in Water Quality Policy and Management	3
EVR 6876	Wetlands, People and Public Policy	3
EVR 6072	Florida Springs	3
EVR 6937	Seminar in Environmental Policy	3
EVR 6934	ST: Seminar in Environmental Science	3
EVR 6934	ST: Global Climate Change	3
BSC 6932	Florida Ecosystems	3
GIS 6038C	Advanced Remote Sensing	3
GIS 6306	Environmental Applications of GIS	3

Note: Students may take as an elective an "OR" course not taken in the required section. Additional geography/environment courses may be offered; students should consult their graduate faculty advisor before registering for courses not listed here.

Interdisciplinary Track
Required Courses (18 credit hours for non-thesis option; 21 credit hours for thesis option)

AMS 6026	Florida and Regional Studies	3
AMS 6908	Independent Study	3 **OR**
AMS 6940	Internship	3
AMS 6915	Directed Research (for those electing non-thesis option)	3 **OR**
AMS 6971	Thesis	6
HIS 6939	Seminar in History: Early Florida History	3 **OR**
HIS 6939	Seminar in History: Modern Florida History	3
GEA 6195	Seminar in Advanced Regional Geography	3 **OR**
GEO 6428	Seminar in Advanced Human Geography	3
AML 6017	Studies in American Literature to 1860: Florida and The Colonial Imagination	3 **OR**
LIT 6934	ST: Florida and the Global South	3

Electives (15 credit hours for non-thesis option; 12 for thesis option)

AMS 6934	Nature Writing	3
HIS 5114	Spanish Paleography I	3
HIS 5116	Spanish Paleography II	3
HIS 6925	Colloquium in History: Spanish Florida: History and Myth in Early America	3
HIS 6939	Seminar in History: Spain -Inquisition to Civil War	3
HIS 6925	Colloquium in History: Conquistadores Conquest of The Americas	3
GEO 6605	Contemporary Urban Issues: Emphasis on Florida	3
GEO 6286	Advances in Water Resources: Emphasis on Florida	3
GEO 6113	Qualitative Research Methods	3
ENR 6072	Florida Springs	3
EVR 6216	Advances in Water Quality Policy and Management	3
EVR 6876	Wetlands, People and Public Policy	3

Note: Students may take as an elective an "OR" course not taken in the required section. Additional courses may be offered; students should consult their graduate faculty advisor before registering for courses not listed here.

Graduate Certificate in Florida Studies

Certificate Admission Deadlines:

Fall:	July 31 for best consideration
Spring:	December 1 for best consideration
Summer:	April 1 for best consideration

Minimum Total Hours: 9

Program Level: Graduate Certificate

Contact information

Certificate Director:
Dr. Christopher Meindl
cmeindl@usfsp.edu
727-873-4961

Graduate Program Director:
Dr. Christopher Meindl
cmeindl@usfsp.edu
727-873-4961

Graduate Studies Website:
www.usfsp.edu/grad

Program Information:

The Graduate Certificate in Florida Studies is designed for anyone with an interest in Florida's history, culture or environments. This certificate program consists of a minimum of three courses: one required and two electives. The required course *Florida and Regional Studies*, which provides important context for regional studies, with an emphasis on Florida. Students may take any two elective courses listed below.

Should a non-degree seeking student decide to pursue a Master of Liberal Arts degree with concentration in Florida Studies after completing Florida Studies Certificate coursework, up to 12 credit hours may be applied to graduate work.

Note: Participation in the certificate program does not guarantee admission into a graduate degree program.

Admission Information

Must meet University requirements (see section of this catalog entitled *Graduate Admissions*) as well as requirements listed below.

Program Admission Requirements

- A bachelor's level degree with a cumulative 3.0 GPA in their overall program or in the last 60 hours of study attempted while completing a bachelor's degree. Candidates who have less than a 3.0 undergraduate GPA will be considered for the certificate on a case by case basis.

- Minimum cumulative GPA of 3.0 or better on all work while working toward completion of a baccalaureate degree or a 3.0 on all course work completed while as an upper-division student (upper 60 hours) toward completion of a baccalaureate degree.

Certificate Program Requirements (9 credit hours):

Required Course (3 credit hours):

AMS 6026 Florida and Regional Studies	3

Elective Course Options (select any 2 courses for 6 credit hours):

HIS 6939 Seminar in History: Early Florida History	3
HIS 6939 Seminar in History: Modern Florida History	3
GEA 6195 Seminar in Advanced Regional Geography	3
LIT 6934 Special Topics: Florida and the Global South	3
GEO 6605 Contemporary Urban Issues	3
EVR 6072 Florida Springs	3
HIS 5114: Spanish Paleography I	3
HIS 5116: Spanish Paleography II	3

Master of Arts (M.A.) Degree in Psychology

Degree Information

The M.A. degree program in Psychology is designed for students who are seeking re-specialization in the field of psychology and/or intensive research experience as preparation for pursuit of advanced doctoral study in Psychology.

Program Admission Deadlines:

Fall: March 1st for best consideration, deadline July 31st or until full
Minimum Total Hours: 36
Program Level: Masters
CIP Code: 42.0101 (42.2813 effective January 2020)
Department Code: PSY
Program (Major/College):   PSY AP
Concentration Code: n/a

Contact Information: Dr. Tiffany Chenneville
                                     chennevi@mail.usf.edu
                                     (727) 873-4585

Program Website: http://www.usfsp.edu/psychology
Graduate Studies Website: http://www.usfsp.edu/grad

Program Information

The USFSP Master of Arts in Psychology provides study of biological, social, developmental and cognitive bases of health and human behavior, with concentrated emphasis on how adjustment in these realms serves as the platform for later health and chronic disease outcomes. The program also cultivates advanced competence in research methodology required to interpret and evaluate applied research data. For students in both thesis and non-thesis options, elective courses in the domains of experimental and applied psychology, health psychology, infant-family mental health, cultural competence, and other basic and applied areas round out coursework requirements for the degree. Students on the thesis track also complete an empirical master's thesis.

As a program graduate of the M.A. in Psychology from USF St. Petersburg (USFSP), you will be:

- Positioned to assume human service and clinical health research positions demanding advanced competencies in research methodology; data tracking, collection, and analysis; and grant writing associated with graduate training;
- Eligible for teaching positions at high schools and at 2- and 4-year colleges or universities at (1000/2000 level coursework) with the required 18 hours of graduate work in psychology; and/or
- Competitive for admission to top doctoral programs through the receipt of the foundational content and research courses built into the first year of the M.A. curriculum coupled with a thesis option that will provide intensive experience in a nationally-recognized program of faculty

research as job prospects in Psychology will always remain best for people holding doctoral degrees in applied specialties such as counseling or health.

Accreditation:

USF St. Petersburg is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools.

Admission Information

Must meet University requirements (see Graduate Admissions (as well as requirements listed below).

Program Admission Requirements

- A baccalaureate degree from a regionally accredited institution with an undergraduate GPA of 3.0 or better in course work leading toward the earned baccalaureate and a minimum GRE score of 151 verbal, 150 quantitative, and a 4.0 on the writing subsection. Submitted GRE scores must have been taken no more than 5 years prior to the student's term of entry.
- Undergraduate Introduction to Psychology, Statistics, and Research Methods classes are required.
- A 1000-word statement of intent for seeking an M.A. in Psychology, including discussion of: your academic background; the specific scholarly issues of which you have interest; how your background has prepared you to excel in the Psychology M.A. program; and how you intend to apply your education when you complete the M.A. program.
- Three (3) letters of recommendation from qualified people familiar with the nature of the work required of graduate students in the social sciences, and who can address your ability to excel in graduate work.
- Two (2) examples of professional or academic writing; one (1) academic writing sample must be a research paper at least five pages in length in APA writing style.

Degree Program Requirements

Requires 36 hours of graduate course work, including a thesis for 6 credit hours for those students admitted on a thesis track or 3 credit hours for a non-thesis project option. All students are required to take a set of core courses and qualifying examinations during the first year of study, and then to choose a specialization concentration during their second year of study. As an option, students may take up to six (6) graduate credit hours of the 36-hour requirement in an area of specialization through other academic departments, including three (3) credit hours at any other USF System institution (USF Tampa or USF Sarasota/Manatee). Students must receive approval from the graduate faculty advisor in advance. Students enrolled in either the Infant-Family Mental Health Graduate Certificate program or the Data Analysis Graduate Certificate program may transfer all 12 certificate hours into the Master's degree in Psychology.

Requirements:

PSB 6056	Physiological Psychology	3
DEP 6607	Typical and Atypical Development	3
EXP 6608	Cognitive Psychology	3
PSY 6217	Research Methods and Measurement	3
PSY 6218	Graduate Research Methods (Regression)	3
SOP 6266	ANOVA	3

Electives:
Risk, Resilience and Prevention Emphasis

CLP 6318	Prevention Science and Health Psychology	3
CLP 6623	Professional and Ethical Issues in Applied Psychology	3
CLP 6477	Infant-Family Mental Health	3
SOP 6739	Cultural Competence	3
CLP 6478	Developmental Disabilities	3
CLP 6462	Working with Families of Infants and Toddlers	3

Other Electives:

EXP 6930	ST: Topics in Experimental Psychology	3
SOP 6266	Topics in Social Psychology	3
CLP 6937	Grant Writing	3
PSY 6850	Teaching of Psychology	3
PSY 6947	Grad Instruction Methods	3
PSY 6219	Advanced Statistical Methodology	3
SOP 6266	ST: Program Evaluation	3
SOP 6266	ST: Grant Writing	3

Qualifying Exams:

For advancement to the second year of graduate study, students must pass all five required first year core courses with a grade of B or better in each, and pass comprehensive qualifying exams in biological, social-developmental and cognitive bases of behavior and in statistics and research methodology at the end of the first year of study.

Thesis Option:

Students admitted on a thesis track will complete an empirical research study on a topic approved by a thesis committee of three (3) faculty members and defend orally before this committee at the end of the second year thesis work, students must enroll in 6 credit hours of 6971 Thesis Research. Thesis proposals should be submitted and accepted by November 1 of the student's second year.

Non-Thesis Project Option: Non-thesis students must complete a project which can be a graduate internship or a graduate directed research project under the direction of a faculty member of the program.

Graduate Certificate in Data Analysis

Certificate Admission Deadlines:
      Fall Admission Only*:   March 1 for best consideration
*Courses are sequenced beginning in the Fall semester

Minimum Total Hours: 12

Program Level: Graduate Certificate

Contact Information:
Director: Dr. Tiffany Chenneville
      chennevi@mail.usf.edu
      (727) 873-4585

Graduate Studies Website: www.usfsp.edu/grad

Program Information:
The Graduate Certificate in Data Analysis is designed for students interested in acquiring knowledge and skills related research methods and statistical methods. This information will be useful for students pursuing doctoral studies in psychology or related fields as well as students entering the workforce who are interested in jobs requiring data analytic skills.

Should a student (degree-seeking or non-degree-seeking) decide to pursue a Master's degree in Psychology at USFSP after completing Data Analysis Certificate coursework, up to 12 credit hours may be applied to the degree program requirements. Students should work with the graduate faculty advisor for prior approval.
Note: Participation in the certificate program does not guarantee admission into a graduate degree program.

Admission Information:
Must meet University requirements (see section of this catalog entitled Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
A bachelor's level degree with a cumulative 3.0 GPA in their overall program or in the last 60 hours of study attempted while completing a bachelor's degree. Candidates who have less than a 3.0 undergraduate GPA will be considered for the certificate program on a case by case basis.

Certificate Program Requirements (12 credit hours):

Required Courses:

PSY 6217	Graduate Research Methods	3
PSY 6218	Regression	3
SOP 6266	ANOVA	3

Elective Course Options (select any course for 3 credit hours):

One of the following:

PSY 6219	Advanced Statistical Methodology	3
SOP 6266	Program Evaluation	3
SOP 6266	Grant Writing	3

Graduate Certificate in Infant-Family Mental Health

Certificate Admission Deadlines:

Fall:	Certificate program runs January-December only
Spring:	December 1 for best consideration for January-December cohort

Minimum Total Hours: 12

Program Level: Graduate Certificate

Contact Information:

Director: Dr. James McHale
jmchale@mail.usf.edu
(727) 873-4963

Graduate Coordinator: Ms. Ebony Miller
ebonymiller@mail.usf.edu
(727) 873-4848

Graduate Studies Website: www.usfsp.edu/grad

Program Information:

The fully online Infant-Family Mental Health (IFMH) graduate certificate program is designed for students who have earned a bachelor's degree in psychology, social work, criminology, human development, early childhood education, nursing and other social science-related fields. It will benefit practitioners in allied health professions and social and behavioral sciences seeking to become effective change agents for infant-family health in the systems and communities where they live and work. This involves gaining a greater knowledge for working with infants and their families. It also involves developing a systems thinking orientation in order to partner with infants, families, and others to transform systems and communities. Program emphasis provides coverage of theoretical/conceptual and applied issues in building knowledge and skills for understanding infant and toddler social and emotional development, also referred to as "infant mental health." It also builds knowledge and skills about how co-parenting relationships develop and function in a diversity of different family systems, and a means of understanding how co-parenting alliances can and should be capitalized on to promote the healthy adjustment of any infant or toddler.

This is a 12-credit hour certificate program. The IFMH Certificate program's four courses cover best practices, latest research, and strategies that can help children from birth to three years and their families – even those facing substantial challenges – make more successful adjustments during the child's earliest years so that more young children might be ready to learn by preschool age. The courses also introduce students to approaches and initiatives emerging in various fields to bring about transformed communities where all young children and families are thriving.

The program does not provide specialized clinical training in specific forms or modalities of intervention but rather provides broad coverage of knowledge necessary for informed and competent work in early childhood mental health, prenatal and health-related, child protection and welfare, civic and community life, and other fields serving and collaborating with families of infants and toddlers.

Admission Information

Must meet University requirements (see section of this catalog entitled Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

4. A baccalaureate degree from a regionally accredited institution.
5. Prior undergraduate course work in ethics and in child development (requirement will be waived with permission of program faculty for practicing professionals working with families of children aged 0-3 with at least one year of prior service).
6. Minimum cumulative GPA of 3.0 or better on all work completed while registered as an upper-division baccalaureate student.
7. A 1000-word statement of intent for seeking a certificate in Infant-Family Mental Health.
8. Three (3) letters of recommendation from persons familiar with the nature of work required of graduate students in social science and who can the applicant's ability to excel in this type of work.
9. Two (2) examples of professional or academic writing.
10. Students in other graduate programs or with graduate degrees may utilize an abbreviated application procedure. Please contact graduate coordinator for details.

Certificate Program Requirements

One year of coursework (January through December); 12 graduate credit hours. The four courses are to be taken sequentially. These courses do not apply to any other graduate certificate.

Required Courses:

CLP 6477	Infant-Family Mental Health	3
CLP 6443	Assessment of Infant-Family Mental Health	3
CLP 6462	Working with Families of Infants and Toddlers	3
CYP 6109	Co-Parenting and Systems Change for Infant-Family Mental Health	3

Students seeking a graduate certificate in Infant-Family Mental Health must meet additional graduate student requirements (time limitations and good academic standing) as outlined in Section 4 of this catalog entitled *Graduate Certificate Students*.

Students in other USF master's degree programs may take the courses in any order with permission from their Faculty Advisors and the IFMH Certificate Program faculty/instructor(s).

Section 11 - Kate Tiedemann College of Business at USF St. Petersburg

KTCOB College of Business

USF-St. Petersburg
140 Seventh Avenue South
St. Petersburg, FL 33701

Web address:	http://www.usfsp.edu/ktcob/
Phone:	727-873-4622
Fax:	727-873-4192
College Dean:	Dr. Sridhar Sundaram
Associate Dean:	Dr. Gary Patterson
Director, Graduate Programs:	Mr. Eric Douthirt

Accreditation:

The University of South Florida St. Petersburg is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS). The Kate Tiedemann College of Business is accredited by the Association for the Advancement of Collegiate Schools of Business (AACSB) International. AACSB International is the premier accrediting agency for bachelor's, master's, and doctoral degree programs in business administration and accounting, and as such is the most-widely recognized and sought-after endorsement of business schools.

Mission Statement:

The mission of the Kate Tiedemann College of Business at USF St. Petersburg is to prepare our graduates to be effective in their future management and leadership roles in a global environment. We strive for quality education, meaningful research, ethical awareness, intellectual and cultural diversity, and practical service to the community with a focus on sustainability and innovation in a stimulating environment.

Major Research Areas:

See individual departments.

Types of Degrees Offered:

Master of Business Administration (M.B.A.)
Master of Accountancy (M.Acc.)

Name of Programs Offered:

Master of Business Administration (M.B.A.)
Master of Accountancy (M.Acc.)

Concentrations:

Healthcare Analytics (MBA Program)
Business Analytics (MBA Program)

Optional MBA Focus Tracks:

Finance, Accounting, International Business, Information Systems Management, Management, Marketing Strategy, Corporate Social Responsibility.

Optional MAcc Focus Tracks:

Forensic Accounting, Tax

Graduate Certificates Offered:

Business Analytics
Leadership Management
Sustainable Entrepreneurship

Master's of Business Administration (M.B.A.) Degree

Degree Information

Program Admission Deadlines*:

Fall:	Domestic: March 15 for best consideration, July 1st final deadline
	International: May 1
Spring:	Domestic: October 15 for best consideration, November 1 final deadline
	International: October 15
Summer:	Domestic: March 15 for best consideration, April 15 final deadline
	International: No summer admission offered

*International Students should review International Admissions deadlines on the Graduate Studies website at http://www.usfsp.edu/grad.

Minimum Total Hours:	36
Program Level:	Masters
Program Status:	Active
CIP Code:	52.0201
Dept. Code:	DEA
Program (Major/College):	BUS BP

Contact Information

College:	USF St. Petersburg
	Kate Tiedemann College of Business

Contact Information:

Main Office:	ktcobgrad@usfsp.edu
	(727) 873-4622
Director, Graduate & Executive Education::	Mr. Eric Douthirt
	douthirt@usfsp.edu
	(727) 873-4412
Academic Director:	Dr. Richard Smith
	smithrb@usfsp.edu
Recruitment:	

Advising:	Lisa Y. Vanover, M.Ed.
	lisay@mail.usf.edu
	(727) 873-4749

Program Information

The MBA is a 36 credit hour program, combining 18 credits (6 courses) of core requirements and 18 credits (6 courses) of electives. The core provides the well-rounded expertise needed for today's strategic managers with emphasis on ethics in business. The electives provide an opportunity for students to make their MBA unique and explore a variety of contemporary topics in business. Some students may choose to focus their elective studies in one or two areas to build a strong expertise in the industry of their choice.

Accreditation:

The University of South Florida St. Petersburg is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) to award bachelor's and master's degrees. The College of Business is accredited by the Association to Advance Collegiate Schools of Business (AACSB) International.

Major Research Areas:

Contact Coordinator for department

Admission Information

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Admission to the MBA program is open to all qualified people holding a four-year bachelor's degree from an accredited institution in the United States or the equivalent from a foreign country. The admissions decision is based on the following minimum requirements:

- A completed USF St. Petersburg online graduate program application
- $30 application fee due at the time the online application is completed
- a current resume
- a statement of purpose
- three letters of recommendation, including at least one professional reference
- one official transcript from each institution of higher learning attended
- Graduate Management Admission Test (GMAT) score of 500 or equivalent GRE score taken within the last five years and an upper level GPA of 3.0 or better; **OR**
  GPA of 2.5 or better in the upper 60 hours of degree-seeking coursework of the undergraduate degree; **AND**
- Total score of 1100 or better using the following formula:
  (200 X GPA in the last 60 semester hours of degree seeking coursework) + GMAT score/equivalent GRE score. Eg: GPA=2.8, GMAT=570 (200 X 2.8) + 570 = 1130

USFSP may waive the GMAT/GRE requirement for MBA admission under the following conditions:

Graduates with bachelor's degrees in business earned from institutions within the USF System (USF Tampa, USF Sarasota/Manatee or USF St. Petersburg) with an upper level GPA of 3.75 or higher.

Candidates with previously earned graduate level degrees from regionally accredited institutions of higher learning can qualify for a waiver of the GMAT/GRE exam. Graduate degrees awarded internationally must be evaluated by a NACES member agency if a GMAT/GRE waiver is to be granted.

Examples of graduate degrees that may qualify a candidate for a GMAT/GRE waiver include:

Master's Degrees (i.e., M.A., M.S., M.Ed., M.Acc., etc.)

Doctor of Philosophy (Ph.D.)

Doctor of Medicine (M.D.)

Doctor of Osteopathic Medicine (D.O.)

Doctor of Dental Surgery (D.D.S.)

Doctor of Dental Medicine (D.M.D.)

Doctor of Pharmacy (Pharm.D.)

Doctor of Chiropractic (D.C.)

Doctor of Podiatric Medicine (D.P.M.)

Doctor of Veterinary Medicine (D.V.M.)

Juris Doctorate (J.D.)

The following professional certifications/licenses may qualify a candidate for a GMAT/GRE waiver:

Actuary (Member of American Society of Actuaries)

Certified Financial Analyst (CFA)

Certified Financial Planner (CFP)

Certified Fraud Examiner (CFE)

Certified General Appraiser

Certified Internal Auditor (CIA)

Certified Management Accountant (CMA)

Certified in Production and Inventory Management (CPIM) from APICS

Certified Public Accountant (CPA)

Certified Quality Engineer (CQE) from ASQ

Certified Reliability Engineer (CRE) from ASQ

Certified Residential Appraiser

International Project Management Professional (PMP)

Lean Six Sigma Certification from ASQ

Professional Engineer (PE): National Engineering Principles and Practice Exam

Real Estate Brokerage

SHRM Senior Certified Professional (SHRM-SCP)

Professional work experience may also be used to request a waiver of the GMAT/GRE requirement. Applicants requesting a waiver of the GMAT/GRE requirement on the basis of professional experience

are expected to have extensive work experience demonstrating upward mobility with a minimum of five (5) years in a management role. Such experience should include, but is not limited to staff and budget management.

The use of professional certifications/licenses, and/or previously earned graduate degrees, and/or professional work experience in lieu of the GMAT/GRE does not guarantee admission to the MBA. The admissions committee retains the right to ask any candidate to take the GMAT/GRE for admissions consideration if it is determined that a candidate's application (inclusive of professional certifications/licenses, graduate degrees or work experience) does not warrant full admission without further assessment.

Applicants seeking a waiver should submit as part of the online application an MBA GMAT/GRE Waiver Request Form available on the MBA admissions website (www.usfsp.edu/mba). Add these items either to the supporting documents portion found at the end of the online application or separately in the "My Documents" link found under the top menu bar's "My Workspace" tab.

- **Competitive candidates will be asked to participate in a phone interview as part of the admissions review process.**

Degree Program Requirements

Prerequisites and Essential Course Modules

There are nine prerequisite courses to USFSP MBA Program:

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 2013 Macroeconomics
- ECO 2023 Microeconomics
- FIN 3403 Principles of Finance
- ISM 3011 Information Systems in Organizations
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing
- QMB 3200 Business and Economics (Stats II)

Note: The present listing shows the prerequisites as they are named and with course numbers used in the USF System. Equivalent undergraduate courses from other AACSB accredited institutions will satisfy prerequisites. Similar courses from non-AACSB accredited institutions can satisfy prerequisites per the discretion of the Kate Tiedemann College of Business faculty after a review of course syllabi.

In order for a prerequisite to be satisfied it must have been completed within seven years of a student's term of entry into the USFSP MBA program with a letter grade of B or better.

Students with unsatisfied prerequisites may complete the equivalent USFSP MBA Essentials Course Module(s). The MBA Essentials Course Modules are online, pass/fail and self-paced, providing newly admitted students a fast-track alternative to completing their prerequisites in the traditional classroom environment. Students also have the option to complete the respective undergraduate course(s) prior to beginning their graduate level study.

Students must complete all of their prerequisites by the end of their term of entry. Students with more than four unsatisfied prerequisites will be prohibited from beginning any graduate level coursework in the program. Students with four or less prerequisites may complete graduate level coursework in their term of entry per the discretion of the MBA Advisor. Unsatisfied prerequisites will not prohibit an

applicant from gaining acceptance to the USFSP MBA Program. To learn more about the innovative MBA Essentials program, please visit: https://www.usfsp.edu/mba/mba-essentials-modules.

The program is 36 credits. The 18 hours of required courses consist of six 3-credit-hour courses:

ECO 6419	Managerial Analysis	3
BUL 6652	Regulatory and Reporting Environments	3
GEB 6368	Global Business Environment	3
MAN 6782	Organizational Strategies for the 21st Century	3
FIN 6465	Financial Statement Analysis	3
MAN 6244	Organizational Behavior	3

Students must complete at least eighteen (18) hours of the master's program (including Managerial Analysis and Financial Statement Analysis) before enrolling in the formal exit course, MAN 6782 Organizational Strategies for the 21st Century.

Focus Track and Elective Courses

Students must complete 18 hours of elective credit. The Focus Track areas encourage the development of market-driven competencies and provide students with distinctive sets of knowledge and skills. The integration courses allow students to position themselves in the marketplace by choosing Focus Tracks that match their career goals. Students may select two Focus Tracks to develop detailed business plans for building their individual competencies and resumes or may select any six elective courses (18 hours.)

Track Area Guidelines:

- A student may complete a maximum of two focus tracks consisting of three courses (9 hours) each.

- No courses outside of the USF St. Petersburg Kate Tiedemann College of Business may be taken for degree credit unless prior approval is received. A maximum of 6 semester hours may be approved for coursework outside of the college. All courses must be graduate level.

  There is no requirement to complete a Focus Track. Students have the option to complete any 6 elective courses (18 hours) within the USFSP MBS program.

Focus Tracks include:

Corporate Social Responsibility

This track will develop a student's understanding of ethical management, marketing and decision-making. Students will explore the ethical and behavioral issues faced by corporations as they manage organizational change and serve multiple stakeholders. Ethical social responsibility provides the foundation of this focus track. Courses listed below are currently offered in the MBA and may be used as credit toward the Corporate Social Responsibility Focus Track. Other courses not listed may also be used to satisfy the Corporate Social Responsibility Focus Track with the approval of the MBA Academic Director or his/her delegate.

- ENT 6507 Social Entrepreneurship in Emerging Markets (Study Abroad)
- ENT 6930 ST: Sustainable Entrepreneurship
- ECO 6936 ST: Economics of Women, Men and Work
- GEB 6265 Advanced Facilitation
- GEB 6255 Advanced Negotiation

- MAN 6068 Social Issues in Management

- MAN 6289 Organizational Change and Development

- MAN 6930 ST: Innovation and Dali

- MAN 6766 Leadership and Corporate Accountability

- TAX 6940 IRS VITA Tax Practicum

Finance

The Finance Focus Track provides an understanding of the economic issues related to the valuation of assets in domestic and international settings. It will help students develop the skills needed to analyze the investment and capital-structure decisions faced by firms and investors. The course sequence focuses on the investment and capital-structure decisions in a risk-return framework. This focus track places emphasis on developing and fostering the student's decision-making skills. Courses listed below are currently offered in the MBA and may be used as credit toward the Finance Focus Track. Other courses not listed may also be used to satisfy the Finance Focus Track with the approval of the MBA Academic Director or his/her delegate.

- FIN 6416 Advanced Financial Management
- FIN 6515 Investments
- FIN 6605 International Financial Management
- FIN 6934 ST: Wealth Management and Financial Planning

Forensic Accounting

This track is designed to acquaint students with current theory and practice in economic crimes, fraud investigations, and approaches to deter fraudulent activity. The track includes exposure to fraud prevention and detection approaches, forensic investigations, and information and communications security. It also addresses legal concepts of criminal fraud and corporate criminal liability, and emphasizes the importance of establishing sound policies and implementing effective procedures and controls in creating an effective and ethical corporate environment. Social responsibility and corporate reporting are at the foundation of this area. Courses listed below are currently offered in the MBA and may be used as credit toward the Forensic Accounting Focus Track. Other courses not listed may also be used to satisfy the Forensic Accounting Focus Track with the approval of the MBA Academic Director or his/her delegate.

- ACG 5205 Advanced Financial Accounting
- ACG 5375 or 6936 Business Valuations
- ACG 5505 Governmental/Not-For-Profit Accounting
- ACG 6686 Fraud Examination
- ACG 6688 Forensic Accounting and the Legal Environment
- ACG 6936 ST: Professional Research and Data Analytics
- ACG 6687 Fraud and Financial Reporting
- ACG 6936 ST: Seminar in Accounting
- TAX 5015 Federal Taxation of Business Entities
- TAX 6005 Advanced Partnership Taxation
- TAX 6065 Contemporary Issues in Taxation
- TAX 6134 Advanced Corporate Taxation
- TAX 6940 IRS VITA Tax Practicum

International Business

The international business focus provides the background, knowledge and skills important in doing business across national boundaries. The rapid integration of world economies and the globalization of businesses represent major challenges to the leaders in tomorrow's business world. MBA graduates who understand the issues, problems and opportunities inherent in an international environment will have a major advantage in their ability to function and succeed in the global business arena. The track also provides an understanding of the cultural and business issues associated with that environment. Courses listed below are currently offered in the MBA and may be used as credit toward the International Business Focus Track. Other courses not listed may also be used to satisfy the International Business Focus Track with the approval of the MBA Academic Director or his/her delegate.

- ECO 6705 International Economic Issues
- ENT 6507 Social Entrepreneurship in Emerging Markets (Study Abroad)
- FIN 6605 International Financial Management
- GEB 6930 ST: Creating and Nurturing Company Growth (Study Abroad)
- MAN 6068 Social Issues in Management
- MAR 6158 International Marketing Management

Information Systems Management Track

In today's increasingly competitive environment, successful organizations are those that are able to effectively manage their information systems and knowledge assets. This three-course focus track will examine managers' legal, social, and ethical responsibilities for overseeing information resources; familiarize them with new and emerging technologies for capturing, codifying, and sharing knowledge; and introduce them to the tools and technologies needed to manage complex IT projects involving globally dispersed and diverse teams. Courses listed below are currently offered in the MBA and may be used as credit toward the Information Systems Focus Track. Other courses not listed may also be used to satisfy the Information Systems Focus Track with the approval of the MBA Academic Director or his/her delegate.

- ISM 6316 Project Management
- ISM 6436 Operations & Supply Chain Processes
- ISM 6930 ST: Business Process Management Development
- ISM 6930 ST: Data Visualization
- ISM 6930 ST: ERP Systems Analysis
- ISM 6930 ST: Fundamentals of Data Management and Analysis
- ISM 6930 ST: Predictive Analytics
- ISM 6930 ST: Data Analytics with R

Management

The Management focus track addresses issues both interpersonally and organizationally and how success in any organization depends to a large extent on how it is organized and on how the people within it behave. At one level, management examines how and why people (including especially ourselves) behave as we do. This is an area of importance for managers in all disciplines. At another level, management also addresses how the structure of the organization affects the behavior of the people within it, giving emphasis to the factors that affect cooperation, competition and change. Courses listed below are currently offered in the MBA and may be used as credit toward the Management Focus Track. Other courses not listed may also be used to satisfy the Management

Focus Track with the approval of the MBA Academic Director or his/her delegate.

- ECO 6936 ST: Economics of Women, Men and Work
- ENT 6507 Social Entrepreneurship in Emerging Markets (Study Abroad)
- ENT 6930 ST: Sustainable Entrepreneurship
- GEB 6118 Business Enterprise
- GEB 6265 Advanced Facilitation
- GEB 6255 Advanced Negotiation
- GEB 6930 ST: Creating and Nurturing Company Growth (Study Abroad)
- ISM 6316 Project Management
- MAN 6068 Social Issues in Management
- MAN 6289 Organizational Change/Development
- MAN 6930 ST: Innovation and Dali
- MAN 6930 ST: Management Design Thinking
- MAN 6766 Leadership and Corporate Accountability

Marketing Track

This track provides students with the skills and knowledge needed to succeed in a customer-driven marketplace. This focus track is designed for students who plan to seek employment in marketing and those from other disciplines who want a customer-driven focus to their studies. Students will complete the focus with a project portfolio of market-driven skills. Courses listed below are currently offered in the MBA and may be used as credit toward the Management Focus Track. Other courses not listed may also be used to satisfy the Management Focus Track with the approval of the MBA Academic Director or his/her delegate.

- ECO 6936 ST: Economics of Women, Men and Work
- ENT 6507 Social Entrepreneurship in Emerging Markets (Study Abroad)
- ENT 6930 ST: Sustainable Entrepreneurship
- MAR 6158 International Marketing Management
- MAR 6336 Promotional Management
- MAR 6936 ST: Retailing Management

Graduate Certificate in Leadership Management

Certificate Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	October 15 for best consideration
Summer:	April 15 for best consideration

Minimum Total Hours: 9

Program Level: Graduate Certificate

Contact information

Main Office:	ktcobgrad@usfsp.edu
	(727) 873-4622
Director, Graduate & Executive Education:	Eric Douthirt
	douthirt@usfsp.edu
	(727) 873-4412
Recruitment:	
Advising:	Lisa Y. Vanover, M.Ed.
	lisay@mail.usf.edu
	(727) 873-4749

Program Information:

The graduate certificate program in Leadership Management offers experience in business applications for students who do not wish to be formally admitted into the MBA program or who are in other graduate degree programs but seek the benefits that such business applications offer. In order to be admitted to this certificate program, students not currently enrolled in a USF St. Petersburg graduate program must have a minimum GPA of 3.0 in their last 60 semester credit hours from an accredited college or university. Students currently enrolled and in good standing in other graduate programs at USF St. Petersburg are automatically eligible for the certificate program upon the approval of their graduate advisor.

Admission Information

Must meet University requirements (see section of this catalog entitled *Graduate Admissions*) as well as requirements listed below.

Program Admission Requirements

- A baccalaureate degree from a regionally accredited institution.

- Minimum cumulative GPA of 3.0 or better on all work while working toward completion of a baccalaureate degree or a 3.0 on all course work completed while as an upper-division student (upper 60 hours) toward completion of a baccalaureate degree.

Certificate Program Requirements

A cumulative GPA of at least 3.00 following the completion of the 3 courses in the certificate program

A minimum grade of C+ or better in each course leading to the certificate

Completion of the certificate program within three years of initial semester of enrollment in the certificate program. Certificate students may transfer a maximum of two certificate courses into the MBA program, with the condition that the student has earned a minimum grade of B in each course requested for transfer.

Requirements:

Students must complete three (9 credits) 6000 level courses. At minimum, two (6 credits) must have a MAN, ENT or GEB prefix. One course (3 credits) with an ACG, ECO, FIN, ISM or MAR may be used as credit toward completion of the certificate. All courses for certificate credit must be preapproved by the Director of Graduate Programs and Executive Education prior to enrolling.

Students are required to complete Essentials prerequisite modules prior to enrolling in 6000 level courses of the related discipline (i.e., must complete Management Essentials Module prior to taking MAN 6000 level course) unless waived by the Director of Graduate Programs and Executive Education.

Graduate Certificate in Sustainable Entrepreneurship

Certificate Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	October 15 for best consideration
Summer:	April 15 for best consideration

Minimum Total Hours: 9

Program Level: Graduate Certificate

Contact information

Main Office:	ktcobgrad@usfsp.edu (727) 873-4622
Director, Graduate & Executive Education:	Eric Douthirt douthirt@usfsp.edu (727) 873-4412
Recruitment:	
Advising:	Lisa Y. Vanover, M.Ed. lisay@mail.usf.edu (727) 873-4749

Program Information:

The graduate certificate program in Sustainable Entrepreneurship offers students expertise in the critical disciples of sustainability, entrepreneurship and business, including how those disciplines intersect to impact profitability and outcomes for the natural and social environments. This graduate certificate is offered 100% online to maximize the flexibility for working professionals. Students may elect to take preapproved on campus, hybrid or study abroad courses if and when they are available.

Admission Information

Must meet University requirements (see section of this catalog entitled *Graduate Admissions*) as well as requirements listed below.

Program Admission Requirements

- A baccalaureate degree from a regionally accredited institution **and**

Minimum cumulative GPA of 3.0 or better in their last 60 semester credit hours.

Students currently enrolled in other graduate degree programs (Master's level or higher) in the USF System are automatically eligible for the certificate program upon the approval of their graduate advisor.

Certificate Program Requirements:

In order to earn a Graduate Certificate in Sustainable Entrepreneurship, students must:
- Complete nine (9) credit hours of approved 6000 level coursework

- ○ ENT 6930 Sustainable Entrepreneurship (3 Credits) plus 6 credits or additional pre-approved 6000 level coursework
- • Maintain an overall GPA of at least 3.00 in the certificate program
- • Earn a minimum grade of C or better in each course*

Complete the program within three years of initial semester of enrollment

*Grades of B or better are required for any course being transferred into a graduate degree program.

Required Courses (3 credits):

ENT 6930 ST: Sustainable Entrepreneurship		3

Track 1: Sustainable Entrepreneurship/The Sustainable Enterprise
Required:

ENT 6930	Sustainable Entrepreneurship	3

Two (2) courses from the following electives:

ENT 6508	Social Entrepreneurship in Emerging Markets	3
MAN 6766	Leadership & Corporate Accountability	3
MAN 6068	Social Issues in Management	3
IDS 6235	Economics and Finance for Sustainability	3

Track 2: Sustainable Entrepreneurship/Climate Change and Sustainability
Required:

ENT 6930	Sustainable Entrepreneurship	3
IDS 6938	Climate Change Adaptation and Mitigation	3
IDS 6208	Renewable Power Portfolio	3

Track 3: Sustainable Entrepreneurship/Sustainable Energy
Required:

ENT 6930	Sustainable Entrepreneurship	3
IDS 6208	Renewable Power Portfolio	3
IDS 6907	Renewable Transportation Fuels	3

Track 4: Sustainable Entrepreneurship/Sustainable Tourism
Required:

ENT 6930	Sustainable Entrepreneurship	3
IDS 6938	Climate Change Adaptation and Mitigation	3

Choose one from the following:

IDS 6237	Ecotourism and Sustainable Tourism Management	3
IDS 6236	Sustainable Tourism Development: Princ & Practices	3

Track 5: Sustainable Entrepreneurship/Water Quality
Required:

ENT 6930	Sustainable Entrepreneurship	3

Two from the following:

GEO 6286	Advances in Water Resources	3
EVR 6876	Wetlands, People and Public Policy	3
EVR 6216	Water Quality Policy and Management	3
GEO 6283	Florida Springs	3
IDS 6938	Water Resources Planning	3

Graduate Certificate in Business Analytics

Certificate Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	October 15 for best consideration
Summer:	April 15 for best consideration

Minimum Total Hours: 9

Program Level:	Graduate Certificate

Contact information

Main Office:	ktcobgrad@usfsp.edu
	(727) 873-4622
Director, Graduate & Executive Education:	Eric Douthirt
	douthirt@usfsp.edu
	(727) 873-4412
Recruitment:	
	Lisa Y. Vanover, M.Ed.
	lisay@mail.usf.edu
	(727) 873-4749
Advising:	

Program Information:

The graduate certificate program in Business Analytics offers students experience in data analysis for students who do not wish to be formally admitted into the MBA program or who are in other graduate degree programs but seek the benefits that such business applications offer. In order to be admitted to this certificate program, students not currently enrolled in a USF St. Petersburg graduate program must have a minimum GPA of 3.0 in their last 60 semester credit hours from an accredited college or university. Students already enrolled in at USF St. Petersburg are automatically eligible for the certificate program upon the approval of their graduate advisor.

Admission Information

Must meet University requirements (see section of this catalog entitled *Graduate Admissions*) as well as requirements listed below.

Program Admission Requirements

- A baccalaureate degree from a regionally accredited institution.
- Minimum cumulative GPA of 3.0 or better on all work while working toward completion of a baccalaureate degree or a 3.0 on all course work completed while as an upper-division student (upper 60 hours) toward completion of a baccalaureate degree.

Certificate Program Requirements

In order to earn a Graduate Certificate in Business Analytics, students must:

- Successful completion of MBA Information Systems Essentials online course if required.
- An overall GPA of at least 3.00 in 3 courses
- A minimum grade of C+ or better in each course
- Completion of the program within three (3) years of initial semester of enrollment.
- Certificate students may transfer a maximum of two certificate courses into the MBA program, with the condition that the student has earned a minimum grade of B in each course requested for transfer. MBA students that wish to concurrently seek the Business Analytics Graduate certificate may share a maximum of 6 credits as both earned credit toward their MBA and the Certificate at the discretion of the KTCOB and Office of Graduate Studies.

Required Courses

After successfully completing the MBA Information Systems Essentials online course (if required), students must complete the following three (3) graduate level courses offered at USFSP:
1. ISM 6930 Data Visualization
2. ISM 6930 Fundamentals of Data Management and Analysis
3. ISM 6930 Predictive Analytics

MBA with Business Analytics Concentration

Concentration Admission Deadlines*:

Fall:	Domestic: March 15 for best consideration, July 1st final deadline
	International: May 1
Spring:	Domestic: October 15 for best consideration, November 1 final deadline
	International: October 15
Summer:	Domestic: March 15 for best consideration, April 15 final deadline
	International: No summer admission offered

*International Students should review International Admissions deadlines on the Graduate Studies website at http://www.usfsp.edu/grad.

Minimum Total Hours:	36
Program Level:	Masters
Program Status:	Active
CIP Code:	52.0201
Dept. Code:	DEA
Program (Major/College):	BUS BP

Contact Information

College:	USF St. Petersburg
	Kate Tiedemann College of Business
Contact Information:	
Main Office:	ktcobgrad@usfsp.edu
	(727) 873-4622
Director, Graduate and Executive Education:	Mr. Eric Douthirt
	douthirt@usfsp.edu
	(727) 873-4412
Academic Director:	Dr. Richard Smith
	smithrb@usfsp.edu
Recruitment:	
Advising	
	Lisa Y. Vanover, M.Ed.
	lisay@mail.usf.edu
	(727) 873-4749

Program Website:	http://www.usfsp.edu/mba
Graduate Studies Website:	http://www.usfsp.edu/grad

Program Information

The Kate Tiedemann College of Business as USF ST Petersburg educates current and future professionals in the effective management and ethical leadership of organizations. We engage in theoretical and practical research as well as provide service to both the University and external community. We meet the demands of our diverse student population by preparing them for an increasingly global environment with both undergraduate and graduate degree programs.

The MBA with a Business Analytics concentration provides valuable skills to those who, currently or anticipate to, work with organizational data. It enables individuals to perform activities including – but not limited to-querying, reporting, and visualizing data to identify past trends, as well as using these trends to make future predictions.

Accreditation:
The University of South Florida St. Petersburg is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) to award bachelor's and master's degrees. The College of Business is accredited by the Association to Advance Collegiate Schools of Business (AACSB) International.

Major Research Areas:
Contact Coordinator for department

Admission Information
Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements
Admission to the MBA program is open to all qualified people holding a four-year bachelor's degree from an accredited institution in the United States or the equivalent from a foreign country. The admissions decision is based on the following minimum requirements:

- A completed USF St. Petersburg online graduate program application
- $30 application fee due at the time the online application is completed
- a current resume
- a statement of purpose
- three letters of recommendation, including at least one professional reference
- one official transcript from each institution of higher learning attended
- Graduate Management Admission Test (GMAT) score of 500 or equivalent GRE score taken within the last five years and an upper level GPA of 3.0 or better; **OR**
  GPA of 2.5 or better in the upper 60 hours of degree-seeking coursework of the undergraduate degree; **AND**
- Total score of 1100 or better using the following formula:
  (200 X GPA in the last 60 semester hours of degree seeking coursework) + GMAT score/equivalent GRE score. Eg: GPA=2.8, GMAT=570 (200 X 2.8) + 570 = 1130

USFSP may waive the GMAT/GRE requirement for MBA admission under the following conditions:

Graduates with bachelor's degrees in business earned from institutions within the USF System (USF Tampa, USF Sarasota/Manatee or USF St. Petersburg) with an upper level GPA of 3.75 or higher.

Candidates with previously earned graduate level degrees from regionally accredited institutions of higher learning can qualify for a waiver of the GMAT/GRE exam. Graduate degrees awarded internationally must be evaluated by a NACES member agency if a GMAT/GRE waiver is to be granted.

Examples of graduate degrees that may qualify a candidate for a GMAT/GRE waiver include:

Master's Degrees (i.e., M.A., M.S., M.Ed., M.Acc., etc.)

Doctor of Philosophy (Ph.D.)

Doctor of Medicine (M.D.)

Doctor of Osteopathic Medicine (D.O.)

Doctor of Dental Surgery (D.D.S.)

Doctor of Dental Medicine (D.M.D.)

Doctor of Pharmacy (Pharm.D.)

Doctor of Chiropractic (D.C.)

Doctor of Podiatric Medicine (D.P.M.)

Doctor of Veterinary Medicine (D.V.M.)

Juris Doctorate (J.D.)

The following professional certifications/licenses may qualify a candidate for a GMAT/GRE waiver:

Actuary (Member of American Society of Actuaries)

Certified Financial Analyst (CFA)

Certified Financial Planner (CFP)

Certified Fraud Examiner (CFE)

Certified General Appraiser

Certified Internal Auditor (CIA)

Certified Management Accountant (CMA)

Certified in Production and Inventory Management (CPIM) from APICS

Certified Public Accountant (CPA)

Certified Quality Engineer (CQE) from ASQ

Certified Reliability Engineer (CRE) from ASQ

Certified Residential Appraiser

International Project Management Professional (PMP)

Lean Six Sigma Certification from ASQ

Professional Engineer (PE): National Engineering Principles and Practice Exam

Real Estate Brokerage

SHRM Senior Certified Professional (SHRM-SCP)

Professional work experience may also be used to request a waiver of the GMAT/GRE requirement. Applicants requesting a waiver of the GMAT/GRE requirement on the basis of professional experience

are expected to have extensive work experience demonstrating upward mobility with a minimum of five (5) years in a management role. Such experience should include, but is not limited to staff and budget management.

The use of professional certifications/licenses, and/or previously earned graduate degrees, and/or professional work experience in lieu of the GMAT/GRE does not guarantee admission to the MBA. The admissions committee retains the right to ask any candidate to take the GMAT/GRE for admissions consideration if it is determined that a candidate's application (inclusive of professional certifications/licenses, graduate degrees or work experience) does not warrant full admission without further assessment.

Applicants seeking a waiver should submit as part of the online application an MBA GMAT/GRE Waiver Request Form available on the MBA admissions website (www.usfsp.edu/mba). Add these items either to the supporting documents portion found at the end of the online application or separately in the "My Documents" link found under the top menu bar's "My Workspace" tab.

- **Competitive candidates will be asked to participate in a phone interview as part of the admissions review process.**

Degree Program Requirements

Prerequisites and Essential Course Modules

Prerequisites and Essential Course Modules

There are nine prerequisite courses to USFSP MBA Program:

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 2013 Macroeconomics
- ECO 2023 Microeconomics
- FIN 3403 Principles of Finance
- ISM 3011 Information Systems in Organizations
- MAN 3025 Principles of Management
- MAR 3023 Basic Marketing
- QMB 3200 Business and Economics (Stats II)

Note: The present listing shows the prerequisites as they are named and with course numbers used in the USF System. Equivalent undergraduate courses from other AACSB accredited institutions will satisfy prerequisites. Similar courses from non-AACSB accredited institutions can satisfy prerequisites per the discretion of the Kate Tiedemann College of Business faculty after a review of course syllabi.

In order for a prerequisite to be satisfied it must have been completed within seven years of a student's term of entry into the USFSP MBA program with a letter grade of B or better.

Students with unsatisfied prerequisites may complete the equivalent USFSP MBA Essentials Course Module(s). The MBA Essentials Course Modules are online, pass/fail and self-paced, providing newly admitted students a fast-track alternative to completing their prerequisites in the traditional classroom environment. Students also have the option to complete the respective undergraduate course(s) prior to beginning their graduate level study.

Students must complete all of their prerequisites by the end of their term of entry. Students with more than four unsatisfied prerequisites will be prohibited from beginning any graduate level coursework in the program. Students with four or less prerequisites may complete graduate level coursework in their term of entry per the discretion of the MBA Advisor. Unsatisfied prerequisites will not prohibit an applicant from gaining acceptance to the USFSP MBA Program. To learn more about the innovative MBA Essentials program, please visit: https://www.usfsp.edu/mba/mba-essentials-modules.

The program is 36 credits. The 18 hours of required courses consist of six 3-credit-hour courses:

ECO 6419	Managerial Analysis	3
BUL 6652	Regulatory and Reporting Environments	3
GEB 6368	Global Business Environment	3
MAN 6782	Organizational Strategies for the 21st Century	3
FIN 6465	Financial Statement Analysis	3
MAN 6244	Organizational Behavior	3

Students must complete at least eighteen (18) hours of the master's program (including Managerial Analysis and Financial Statement Analysis) before enrolling in the formal exit course, MAN 6782 Organizational Strategies for the 21st Century.

Business Analytics Concentration

A further 12 credit hours is required through the following courses:

Course Number	Title	Credit hours
ISM 6930	Data Visualization	3
ISM 6930	Fundamentals of Data Management	3
ISM 6316	Project Management	3
ISM 6930	Predictive Analytics	3

The remaining 6 credit hours is required through the combination of the following 3 credit hour courses:

Course Number	Title	Credit Hours
GEB 6255	Advanced Negotiation	3
ISM 6436	Operations and Supply Chain Process	3
Selected Topics	MAR6930,ECO6930,ISM6930,MAN6930 FIN6930, and GEB6930	3

Courses: See http://www.ugs.usf.edu/sab/sabs.cfm or Section 14 of this Catalog

MBA with Healthcare Analytics Concentration

Concentration Admission Deadlines*:

Fall:	Domestic: March 15 for best consideration, July 1st final deadline

	International: May 1
Spring:	Domestic: October 15 for best consideration, November 1 final deadline
	International: October 15
Summer:	Domestic: March 15 for best consideration, April 15 final deadline
	International: No summer admission offered

International Students should review International Admissions deadlines on the Graduate Studies website at http://www.usfsp.edu/grad.

Minimum Total Hours: 36

Program Level:	Masters
Program Status:	Active
CIP Code:	52.0201
Dept. Code:	DEA
Program (Major/College):	BUS BP

Contact Information

College:	USF St. Petersburg
	Kate Tiedemann College of Business

Contact Information:

Main Office:	ktcobgrad@usfsp.edu
	(727) 873-4622
Director, Graduate & Executive Education:	Mr. Eric Douthirt
	douthirt@usfsp.edu
	(727) 873-4412
Academic Director:	Dr. Richard Smith
	smithrb@usfsp.edu
Recruitment:	
Advising	
	Lisa Y. Vanover, M.Ed.
	lisay@mail.usf.edu
	(727) 873-4749

Program Website: http://www.usfsp.edu/mba

Graduate Studies Website:	http://www.usfsp.edu/grad

Program Information

The MBA is a 36 credit hour program, combining 18 credits (6 courses) of core requirements an 18 credits (6 courses) of electives. The core provides the well-rounded expertise needed for today's strategic managers with emphasis on ethics in business. Data analytics, predictive analytics, business intelligence, data mining and data warehousing are all terminology under the big data heading. The goal of this concentration is to produce graduates who have the skills necessary to support the healthcare

industry, manage large amounts of data, and make timely decisions based on that information. The concentration objectives are as follows:

1. Understand the intricacies of health care and its relationship to business
2. Manage data analytics projects to ensure delivery of successful data analytics projects throughout the lifecycle
3. Assess alternative approaches and infrastructures for implementing big data analytics
4. Develop experience tackling industry – and organization-specific problems and challenges using advanced analytics and computational methods.
5. Transform large data sets into actionable information in an easy-to-understand format to support organizational decision making through the use of advanced analytical tools.

Accreditation:

The University of South Florida St. Petersburg is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) to award bachelor's and master's degrees. The College of Business is accredited by the Association to Advance Collegiate Schools of Business (AACSB) International.

Major Research Areas:

Contact Coordinator for department

Admission Information

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

Program Admission Requirements

Admission to the MBA program. Admission to the MBA program is open to all qualified people holding a four-year bachelor's degree from an accredited institution in the United States or the equivalent from a foreign country. The admissions decision is based on the following minimum requirements:

- A completed USF St. Petersburg online graduate program application
- $30 application fee due at the time the online application is completed
- a current resume
- a statement of purpose
- Three letters of recommendation, including at least one professional reference
- One official transcript from each institution of higher learning attended
- Graduate Management Admission Test (GMAT) score of 500 or equivalent GRE score taken within the last five years and an upper level GPA of 3.0 or better; or GPA of 2.5 or better in the upper 60 hours of degree-seeking coursework of the undergraduate degree; and a total score of 1100 or better using the following formula: (200 X GPA in the last 60 semester hours of degree seeking coursework) + GMAT score/equivalent GRE score. Eg: GPA=2.8, GMAT=570 (200 X 2.8) + 570 = 1130

USFSP may waive the GMAT/GRE requirement under the following conditions:
Graduates with bachelor's degrees in business earned from institutions within the USF System (USF Tampa, USF Sarasota/Manatee or USF St. Petersburg) with an upper level GPA of 3.75 or higher. Candidates with previously earned graduate level degrees from regionally accredited institutions of higher learning can qualify for a waiver of the GMAT/GRE exam. Graduate degrees awarded internationally must be evaluated by a NACES member agency if a GMAT/GRE waiver is to be granted. Examples of graduate degrees that may qualify a candidate for a GMAT/GRE waiver include:

Master's Degrees (i.e., M.A., M.S., M.Ed., M.Acc., etc.)
Doctor of Philosophy (Ph.D.)
Doctor of Medicine (M.D.)

Doctor of Osteopathic Medicine (D.O.)
Doctor of Dental Surgery (D.D.S.)
Doctor of Dental Medicine (D.M.D.)
Doctor of Pharmacy (Pharm.D.)
Doctor of Chiropractic (D.C.)
Doctor of Podiatric Medicine (D.P.M.)
Doctor of Veterinary Medicine (D.V.M.)
Juris Doctorate (J.D.)
The following professional certifications/licenses may qualify a candidate for a GMAT/GRE waiver:
Actuary (Member of American Society of Actuaries)
Certified Financial Analyst (CFA)
Certified Financial Planner (CFP)
Certified Fraud Examiner (CFE)
Certified General Appraiser
Certified Internal Auditor (CIA)
Certified Management Accountant (CMA)
Certified in Production and Inventory Management (CPIM) from APICS
Certified Public Accountant (CPA)
Certified Quality Engineer (CQE) from ASQ
Certified Reliability Engineer (CRE) from ASQ
Certified Residential Appraiser
International Project Management Professional (PMP)
Lean Six Sigma Certification from ASQ
Professional Engineer (PE): National Engineering Principles and Practice Exam
Real Estate Brokerage
SHRM Senior Certified Professional (SHRM-SCP)

Professional work experience may also be used to request a waiver of the GMAT/GRE requirement. Applicants requesting a waiver of the GMAT/GRE requirement on the basis of professional experience are expected to have extensive work experience demonstrating upward mobility with a minimum of five (5) years in a management role. Such experience should include, but is not limited to staff and budget management.

The use of professional certifications/licenses, and/or previously earned graduate degrees, and/or professional work experience in lieu of the GMAT/GRE does not guarantee admission to the MBA. The admissions committee retains the right to ask any candidate to take the GMAT/GRE for admissions consideration if it is determined that a candidate's application (inclusive of professional certifications/licenses, graduate degrees or work experience) does not warrant full admission without further assessment.

Applicants seeking a waiver should submit as part of the online application an MBA GMAT/GRE Waiver Request Form available on the MBA admissions website (www.usfsp.edu/mba). Add these items either to the supporting documents portion found at the end of the online application or separately in the "My Documents" link found under the top menu bar's "My Workspace" tab.

Competitive candidates will be asked to participate in a phone interview as part of the admissions review process.

MBA Degree Program Requirements

Prerequisites and Essential Course Modules

There are nine prerequisite courses to USFSP MBA Program:

· ACG 2021 Principles of Financial Accounting

· ACG 2071 Principles of Managerial Accounting

· ECO 2013 Macroeconomics

· ECO 2023 Microeconomics

· FIN 3403 Principles of Finance

· ISM 3011 Information Systems in Organizations

· MAN 3025 Principles of Management

· MAR 3023 Basic Marketing

· QMB 3200 Business and Economics (Stats II)

Note: The present listing shows the prerequisites as they are named and with course numbers used in the USF System. Equivalent undergraduate courses from other AACSB accredited institutions will satisfy prerequisites. Similar courses from non-AACSB accredited institutions can satisfy prerequisites per the discretion of the Kate Tiedemann College of Business faculty after a review of course syllabi.

In order for a prerequisite to be satisfied it must have been completed within seven years of a student's term of entry into the USFSP MBA program with a letter grade of B or better.

Students with unsatisfied prerequisites may complete the equivalent USFSP MBA Essentials Course Module(s). The MBA Essentials Course Modules are online, pass/fail and self-paced, providing newly admitted students a fast-track alternative to completing their prerequisites in the traditional classroom environment.

Students must complete all of their prerequisites by the end of their term of entry. Students with more than four unsatisfied prerequisites will be prohibited from beginning any graduate level coursework in the program. Students with four or less prerequisites may complete graduate level coursework in their term of entry per the discretion of the MBA Advisor. Unsatisfied prerequisites will not prohibit an

applicant from gaining acceptance to the USFSP MBA Program. To learn more about the innovative MBA Essentials program, please visit: https://www.usfsp.edu/mba/mba-essentials-modules

The MBA program is 36 credits.

The 18 hours of required courses consist of six 3-credit-hour courses:

ECO 6419	Managerial Analysis	3
BUL 6652	Regulatory and Reporting Environments	3
GEB 6368	Global Business Environment	3
MAN 6782	Organizational Strategies for the 21st Century	3
FIN 6465	Financial Statement Analysis	3
MAN 6244	Organizational Behavior	3

Students must complete at least eighteen (18) hours of the master's program (including Managerial Analysis and Financial Statement Analysis) before enrolling in the formal exit course, MAN 6782 Organizational Strategies for the 21st Century.

Healthcare Analytics Concentration

At a minimum, five courses (15 credit hours) must be completed from the following electives for the concentration to be awarded:

ISM 6930	ST: IT Project Management	3
ISM 6930	ST: Data Visualization	3
ISM 6930	ST: Fundamentals of Data Management and Analysis	3
ISM 6436	Operations and Supply Chain	3
GEB 6255	Advanced Negotiation	3
MAN 6930	ST: Health Care Management	3
ECP 6536	Economics of Health Care	3

If only five courses are selected from the electives courses listed above, a final 3-credit hour course will be needed to meet the 36-hour required program credits. Additional courses may be allowed from the following selected topics course numbers: prefixes of MAR 6930, ECO 6936, ISM 6930, MAN 6930, FIN 6930 and GEB 6930. Students should seek the approval of their graduate advisor before enrolling in courses not listed above.

Master's of Accountancy (M.Acc.) Degree

Degree Information

Program Admission Deadlines*:

Fall:	Domestic: July 1 for best consideration
	International: May 1
Spring:	Domestic: November 1 for best consideration
	International: October 15
Summer:	Domestic: April 15 for best consideration
	International: No summer admission offered

*International Students should review International Admissions deadlines on the Graduate Studies website at http://www.usfsp.edu/grad.

Minimum Total Hours:	30
Program Level:	Masters
Program Status:	Active
CIP Code:	52.0301
Dept Code:	DEA
Program (Major/College):	MAC BP

Contact Information

College:	USFSP Kate Tiedemann College of Business
Academic Director:	Dr. Maria T. Caban-Garcia
	tconover@mail.usf.edu
Recruitment:	
	Lisa Y. Vanover, M.Ed.
	lisay@mail.usf.edu
	(727) 873-4749
Advising:	

Program Website:	http://www.usfsp.edu/macc
Graduate Studies Website:	http://www.usfsp.edu/grad

Program Information

The Kate Tiedemann College of Business at USF St. Petersburg educates current and future professionals in the effective management and ethical leadership of organizations. We engage in theoretical and practical research as well as provide service to both the University and external community. We meet the demands of our diverse student population by preparing them for an increasingly global

environment with both undergraduate and graduate degree programs.

Accreditation:

The University of South Florida St. Petersburg is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS) to award bachelor's and master's degrees. The Kate Tiedemann College of Business and the Program of Accountancy are accredited by the Association to Advance Collegiate Schools of Business (AACSB) International.

Major Research Areas:

Contact Coordinator for department

Program Admission Requirements:

Admission to the M.Acc. program is open to all qualified people holding a four-year bachelor's degree from a regionally accredited institution in the United States or the equivalent from a foreign country. The admissions decision is based on the following minimum requirements:

Graduate Management Admission Test (GMAT) of 500 or equivalent GRE score taken within the last five years and cumulative GPA of 3.0 or better in the bachelor's degree from a regionally accredited institution or the equivalent from a foreign country; and

Completed coursework in Intermediate Accounting I and II, Cost I, Audit I, Taxation, and Accounting Information Systems. Students must also have taken a 3-credit hour course in Business Law (students may be offered a delayed conditional acceptance to allow time to complete this requirement if applicable).

A waiver of the GMAT/GRE requirement will be considered for students applying to the M.Acc. program at USFSP with one of the following:

An earned bachelor's degree with a 3.75 GPA or higher from USFSP or any other institution/campus within the USF system

An active CPA license and an earned bachelor's degree in accounting with a GPA of 2.70 or higher from an AACSB-accredited institution.

An active CIA, CMA, CGMA, CHFA or CGE license and an earned bachelor's degree in accounting with a GPA of 3.00 or higher from an AACSB-accredited institution.

A previously-earned master's degree from a regionally-accredited institution.

Note: Exemption from the GMAT exam does not guarantee admission to the M.Acc. program.

Degree Program Requirements

The MAcc is a 10 course (30 credit hour) graduate program. The curriculum includes three core classes (9 credits) and seven electives (21 credits).

Required Core Classes:

•FIN 6465 Financial Statement Analysis   3

•ACG 6936 Seminar in Accounting   3

•BUL 5332 Law and the Accountant   3

Students entering the MAcc with at least 6 credit hours of Business Law may substitute BUL 5332 with an additional 3 credit hour elective per the discretion of the Program of Accountancy (POA) Director.

Pending approval, up to 9 credit hours of previously completed graduate level work (5000 level and up) may be transferred to the MAcc and count toward the 30 credit hour requirement. Credits that were used to satisfy requirements of a previously earned degree may not be used as credit in the Macc. If any required course in the MAcc was taken previously and used as credit toward another degree, then a 6000 course will be used as a substitute requirement toward the MAcc.

A maximum 12 credit hours of 5000 level coursework may be used as credit toward the Master of Accountancy degree.

In addition to completion of the 9 hours of required core classes listed above, students choose 7 courses (21 credit hours) from their choice of available tracks: general accounting, tax accounting or forensic accounting. Each track offers multiple electives.

General Accounting Track:

Required:

FIN 6465	Financial Statement Analysis	3
ACG 6936	Seminar in Accounting	3
BUL 5332	Law and the Accountant	3
ACG 5205	Advanced Financial Accounting	3

Plus 18 hours (6 courses) from the following electives:

ACG 5375	Business Valuation	3
ACG 5505	Government & Not for Profit Accounting	3
ACG 6405	Advanced Accounting Information Systems	3
ACG 6496	Computer Forensics	3
ACG 6686	Fraud Examination	3
ACG 6688	Forensic Accounting & the Legal Environment	3
ACG 6687	Fraud & Financial Reporting	3
ACG 6936	ST: International Accounting	3
ACG 6936	ST: Special Topics Accounting	3
TAX 5015	Federal Taxation of Business Entities	3
TAX 6005	Advanced Partnership Taxation	3
TAX 6134	Advanced Corporate Taxation	3
TAX 6940	IRS VITA Tax Practicum	3
One pre-approved non-accounting elective at the 6000 level		3

Tax Accounting Track*:

Required:

FIN 6465	Financial Statement Analysis	3
ACG 6936	Seminar in Accounting	3
BUL 5332	Law and the Accountant	3

TAX 5015   Federal Taxation of Business Entities   3

*IMPORTANT NOTE: Effective Spring 2017, TAX 6065 Contemporary Issues in Taxation will no longer be offered at USFSP. Students wishing to complete the Tax track are allowed to take any other additional ACG or TAX 6000 level course as a substitute..

Plus 18 hours (6 courses) from the following electives:

TAX 6005	Advanced Partnership Taxation	3
TAX 6134	Advanced Corporate Taxation	3
ACG 6940	IRS VITA Tax Practicum	3
ACG 6936	ST: Special Topics in Tax Accounting	3
ACG 5205	Advanced Financial Accounting	3
ACG 5375	Business Valuation	3
ACG 5505	Government & Not for Profit Accounting	3
ACG 6496	Computer Forensics and Data Analytics	3
ACG 6936	ST: International Accounting	3
ACG 6936	ST: Special Topics in Accounting	3
One pre-approved non-accounting elective at the 6000 level		3

Forensic Accounting Track:

Required:

FIN 6465	Financial Statement Analysis**	3
ACG 6936	ST: Seminar in Accounting	3
BUL 5332	Law and the Accountant	3
ACG 6686	Fraud Examination	3

**Plus 18 hours (6 courses, 3 must be in fraud/forensics)
from the following electives:**

ACG 5375	Business Valuation	3
ACG 5505	Governmental & Not for Profit Accounting	3
ACG 6496	Computer Forensics	3
ACG 6688	Forensic Accounting and the Legal Environment	3
ACG 6687	Fraud and Financial Reporting	3
ACG 6936	ST: International Accounting	3
ACG 6936	ST: Special Topics in Accounting	3

Section 12-College of Education at USF St. Petersburg

College of Education
140 Seventh Avenue South – COQ 201
St. Petersburg, FL 33701

Web address:	http://www.usfsp.edu/education
Phone:	(727) 873-4429
Fax:	(727) 873-4191

Interim Associate College Dean: Dr. Brenda Walker

Accreditation:

The University of South Florida St. Petersburg is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the baccalaureate and master's levels. The College of Education is accredited under the National Council for Accreditation of Teacher Education (NCATE) standards, through the Council for the Accreditation of Educator Preparation (CAEP) accreditation system. Formed in 2013, CAEP is the single specialized accreditor for educator preparation and administers NCATE Accreditation.

Mission Statement:

The College of Education at USF St. Petersburg seeks to prepare exemplary teachers and school leaders for roles in a diverse and changing society. The college offers graduate and undergraduate programs that are recognized for accomplishing defined learning outcomes, supported by a foundation of applied research, and dedicated to meeting the needs of the diverse communities it serves. In pursuit of this mission, faculty are guided by a respect for evidence, the pursuit of scholarship, and the ethics of community responsibility.

Types of Degrees Offered:

Master's of Arts (M.A.)
Master's of Education (M.Ed.)
Master's of Science (M.S.)

Names of Programs Offered:

Educational Leadership (M.Ed.)-Certification Only
Elementary Education (M.A.)
English Education (M.A.)
Reading Education (M.A.)
Exceptional Student Education (M.A.)
Middle Grades STEM Education (M.S.)

Concentration:

Elementary Science and Mathematics

Tracks:

Elementary Education: Dual Track
Elementary Education: Curriculum
Elementary Education: Literacy

Elementary Education: Certification Only

Certificate Programs:
Community Literacy Education
Middle Grades Digitally-Enhanced Mathematics Education
Multicultural Literacy Education

Masters of Education (M.Ed.) Degree in Educational Leadership – Certification Only

Degree Information

Program Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	November 1 for best consideration
Summer:	April 15 for best consideration

Minimum Total Hours: 30

Program Level: Masters

CIP Code: 13.0401

Department Code: LEA

Program (Major/College): CAS EP

College: College of Education
USF St. Petersburg

Contact Information:

Graduate Faculty Advisor: TBA

Program Website: http://www.usfsp.edu/education/educational-leadership

Graduate Studies Website: http://www.usfsp.edu/grad

Program Information:

This focused track in Educational Leadership Development is designed for teachers and other practicing school professionals who have already earned a master's degree and wish to add Florida K-12 Leadership certification. It is a state-approved program consisting of thirty (30) credit hours (10 courses) approved by the Florida Department of Education.

The focused track in the Master of Education in Educational Leadership program has the following goals for each candidate in the program. The candidate will:

- Enhance his/her knowledge of Florida Principal Leadership Standards
- Examine leadership theory and the application of that theory in real world settings
- Develop skills in applying educational research as related to school improvement
- Use student data to develop research and standards based strategies to enhance student achievement
- Develop leadership skills to assist teachers in professional development to enhance student achievement

Accreditation:

The University of South Florida St. Petersburg is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the baccalaureate and master's levels. The College of Education is accredited under the National Council for Accreditation of Teacher Education (NCATE) standards, through the Council for the Accreditation of Educator Preparation (CAEP) accreditation system. Formed in 2013, CAEP is the single specialized accreditor for educator preparation and administers NCATE Accreditation.

Admission Information:

Must meet University requirements (see Graduate Admissions) as well as program requirements listed below.

Program Admission Requirements – Applicants must satisfy the following:

- Present satisfactory evidence of a bachelor's degree or equivalent from a regionally accredited institution (include official transcripts with application unless bachelor's was received from a USF System institution) **AND**
- Hold a professional teaching certificate (include copy with application) **AND**
- Have completed a minimum of two (2) years teaching or its equivalent under a full time contract (include documentation with application)
- Must submit two most recent evaluations showing effective or higher in the areas of student growth and instructional practice **AND**
- Submit a letter of intent briefly stating goals for the degree **AND**
- Submit documentation of completion of sixty (60) hours of English for Speakers of Other Languages (ESOL) **OR** a written plan to complete the 60 hours of ESOL before graduation **AND**
- Submit three (3) letters of recommendation (professional references, at least two (2) from current administrators) **AND**
  Meet at least one of the following:
  1. shall have earned a graduate degree from a regionally accredited institution with at least a 3.0 GPA **OR**
  2. shall have earned 3.0 or higher (on a 4.0 scale) cumulative grade point average (GPA) for the bachelor's degree, or as an upper division student (upper 60 hours) working towards the bachelor's degree **OR**
  3. shall submit GRE scores with at least a score of 153 on the verbal section and a 144 on the quantitative section with scores taken within the five years preceding the applicant's desired term of entry.

Degree Program Requirements

Required courses in sequence – all program coursework is sequenced and all courses in a level must be taken before proceeding to the next level. It is recommended that areas A and B be completed before taking the Florida Educational Leadership Examination (FELE). Submit the Educational Leadership Development Program School/District Agreement Document.

Area A:

EDA 6061	Principles of Education Administration	3
EDG 6447	Instructional Design & Classroom Management	3

AREA B:

EDG 6285	School Curriculum Improvement	3
EDA 6232	School Law	3
EDS 6050	Principles & Practices of Educational Supervision	3
EDA 6242	School Finance	3

AREA C:

EDA 6106	Administrative Analysis and Change	3
EDA 6503	The Principalship	3
EDA 6192	Educational Leadership	3
EDA 6945	Administrative Practicum*	3

*To be taken the semester of graduation

Graduation Requirements
- To be eligible for graduation, a candidate must earn an overall grade point average of 3.0 on a 4.0 scale. No grade of C- or below will be accepted toward degree requirements.

- Successful completion of FolioData. The FolioData must contain evidence of a proficiency level on critical assignments aligned to the Florida Principal Leadership Standards.
- Candidates must be enrolled in a minimum of 2 graduate credit hours in the semester of graduation.
- Evidence of passage of the FELE.
- At graduation, all credits used to satisfy requirements for the Master's degree must have been completed within five (5) academic years. Courses taken in lieu of those listed here must be approved in writing by the program.

Master's of Arts (M.A.) Degree in Elementary Education with ESOL and Reading Endorsement (Dual Track)

Degree Information
This is an application track offered under the M.A. degree in Elementary Education and is only offered at USF St. Petersburg.

Program Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	November 1 for best consideration
Summer:	April 15 for best consideration

Minimum Total Hours: 33-50 (depending on elected track)
Program Level: Masters
CIP Code: 13.1202
Department Code: EDR
Program (Major/College): AEE EP

Contact Information
College: College of Education
USF St. Petersburg

Graduate Faculty Advisor: Amanda Tompkins, M.A.
adarcangelo@mail.usf.edu
(727) 873-4051

Program Website:
https://www.usfsp.edu/education/academics/elementary-educationesol-dual-track-program/

Office of Graduate Studies: http://www.usfsp.edu/grad

Program Information
This program is for those who hold a bachelor's degree in a field outside of education who want to become an elementary school teacher (grades K-6). Completion of the entire program (coursework and internships) leads to initial certification in Elementary Education with ESOL endorsement, reading endorsement, and a Master of Arts degree in Elementary Education.

Accreditation:
The University of South Florida St. Petersburg is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the baccalaureate and master's levels. The College of Education is accredited under the National Council for Accreditation of Teacher Education (NCATE) standards, through the Council for the Accreditation of Educator Preparation (CAEP) accreditation system. Formed in 2013, CAEP is the single specialized accreditor for educator preparation and administers NCATE Accreditation.

Program Admission Requirements

Note: In addition to the program admission requirements listed below, applicants must also meet university requirements (see Graduate Admissions section).

Applicants must have:
1. Earned a bachelor's degree or equivalent from a regionally accredited institution **AND**
2. Earned a grade point average of 3.0 or higher in the upper two years (upper 60 hours) of coursework **AND**
3. Either successful completion of the General Knowledge Test (GKT) of the Florida Teacher Certification Exam (FTCE) or GRE scores with minimum scores of 151 on the Verbal Reasoning section, 147 on the Quantitative Reasoning section, and 4 on the Analytical Writing section.

Note: if an applicant has:
> An earned cumulative grade point average of 2.5 to 3.0 in the upper two years (upper 60 hours) of coursework, submission of GRE scores with minimum scores of 151 on the Verbal Reasoning section, 147 on the Quantitative Reasoning section, and 4 on the Analytical Writing section is required and will replace the GKT.

Dual Track with ESOL and Reading Endorsements

This track is a state approved teacher preparation program and will lead to initial teaching certification in K-6 upon successful completion of the course, internships, and exams.

Degree Program Requirements

Core:

EDG 6120	Child Development	3**
EDG 6552	Role of Democracy in Education	3
EDF 6432	Foundations of Measurement	3

Specialization:
The following courses must be taken in sequential order: FLE 5345 must be taken before FLE 5145; FLE 5145 must be taken before FLE 5940.

List of Required Specialization Courses:

EDG 5014	Introduction to Standards Based Education	1**
FLE 5345	Teaching ELLs K-12	3**
EEX 6931	Integrating Exceptional Students in the Regular Classroom	3
LAE 6616	Trends in Language Arts	3
MAE 6117	Teaching Elementary School Mathematics I	3
RED 6658	Foundations and Applications of Differentiated Instruction	3
SCE 6315	Science for Elementary Teachers	3
SSE 6617	Elementary Social Studies	3
FLE 5145	Language, Principals, Acquisition and Teaching	3
RED 6544	Cognition, Comprehension and Content Reading	3
EDG 6447	Instructional Design and Classroom Management	3
TSL 5940	ESOL Practicum I	1
EDG 6931	Practicum in Elementary Education	3
EDG 6947	Final Internship	6***

***Special requirements for the internship are:

1. Completion of an application for the final internship by the deadlines noted. Applications for final internship are made through the College of Education website. Applications for Fall Semester 168 internships are due the preceding January 15. Applications for Spring Semester internships are due the preceding June 15.

2. Completion of all course work in the student's program of study excluding EDG 6947. Students may not enroll in additional courses during the semester in which the final internship occurs unless an exemption is granted through a College of Education petition.

3. Cumulative grade point average of 3.0.

4. Students must meet the requirements of the Florida Educator Accomplished Practices e-portfolio as set by the College of Education.

5. Successful completion of all FTCE exams: The General Knowledge Test (or GRE if substituting), the Professional Educators Exam, and the Subject Area test.

5. Students must complete all other requirements as prescribed by the program.

Graduation Requirements
- Successful completion of Teacher Work Sample Project (TWS)
- Successful completion of Florida Teacher Certification Exam: General Knowledge Test (GKT) or GRE scores with minimum scores of 151 on the Verbal Reasoning section, 147 on the Quantitative Reasoning section, and 4 on the Analytical Writing section that are less than 5 years old.
- Successful completion of the Final Internship.
- Successful completion of FolioData, an e-portfolio is required. FolioData must contain evidence of proficiency levels met on all critical assignments aligned with the Florida Educator Accomplished Practices, the Florida Teachers Standard Reading Endorsement, and the Florida Teacher Standards for ESOL Endorsement.
- Candidates must earn an overall grade point average of 3.0 or higher on a 4.0 scale. No grade of C- or below will be accepted toward degree requirements.

At graduation, all credits used to satisfy requirements for the Master's degree must have been completed within 5 academic years from the term of entry. Candidates must be enrolled for at least 2 graduate credit hours in the semester of graduation.

Literacy and Curriculum Track:

The Literacy and Curriculum Track is intended for certified, practicing classroom teachers who have a strong interest in teaching literacy in grades K-6. This program provides an in-depth view of reading and writing research, theories, and the application of theory to the classroom teaching. In addition, an emphasis is placed on curriculum design in an effort to prepare elementary teachers for leadership roles in their respective schools and districts.

Required Core:

EDG 6432	Foundations of Educational Research	3
EDG 6120	Child Development	3
EDG 6552	Role of Democracy in Education	3
EDG 6935*	Seminar in Curriculum Research	3
FLE 5345	Teaching ELLs (if not ESOL endorsed)	3

Specialization Course Work for the Curriculum Emphasis:

EDG 6627	Foundations of Curriculum and Instruction	3
LAE 6315	Writing & Writers: Trends & Issues (K-12)	3 **OR**
LAE 6316	Trends in Lang Arts Instruction	3
LAE 6316	Trends in Literature in a Diverse Society	3
SCE 6616	Trends in Science Education	3
SSE 6617	Trends in K-6 Social Science Education	3
Elective	approved by graduate faculty advisor	3

Specialization Course Work for the Literacy Emphasis:

RED 6544	Cognition, Comprehension & Content Reading	3
RED 6545	Remediation of Reading & Vocabulary Problems	3
RED 6658	Foundations & Applications of Differentiated Reading Instruction	3
RED 6540	Assessment in Literacy	3
RED 6846	Practicum in Reading	3
Elective	approved in advance by graduate advisor	3

Graduation Requirements

To be eligible for graduation, a student must earn an overall grade point average of 3.0 or higher on a 4.0 scale. No grade of C- or below will be accepted toward degree requirements. Successful completion of a comprehensive exam (Action Research Project Paper and Presentation) with a score of 90% or above by the posted due date is required and fulfillment of the ESOL requirement. Students must be enrolled in a minimum of 2 credit hours in the semester of graduation. At graduation, all credits used to satisfy requirements for the master's degree must have been completed within five (5) academic years. Courses taken in lieu of those listed here must be approved in writing by the program graduate advisor.

Master of Arts (M.A.) Degree in Elementary Education with a Concentration in Science and Mathematics

Degree Information:

This is a concentration offered under the M.A. Degree in Elementary Education program

Program Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	November 1 for best consideration
Summer:	April 15 for best consideration

Minimum Total Hours: 30

Program Level:	Master's
CIP Code:	13.1202
Department Code:	EDR
Program (Major/College):	AEE EP
Concentration Code:	MSM

Contact Information:

Graduate Faculty Advisor: Dr. David Rosengrant
(727) 873-4644
rosengrant@usfsp.edu

Program Website:

https://www.usfsp.edu/education/academics/elementary-education-mathscience-emphasis-graduate/

Graduate Studies Website: http://www.usfsp.edu/grad

Program Information:

This program is intended for certified, practicing elementary classroom teachers who have a strong interest in, and preparation for, teaching K-5 mathematics and science. We prepare elementary teachers for leadership roles in mathematics and science in their respective schools and districts.

Accreditation:

The University of South Florida St. Petersburg is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the baccalaureate and master's levels. The College of Education is accredited under the National Council for Accreditation of Teacher Education (NCATE) standards, through the Council for the Accreditation of Educator Preparation (CAEP) accreditation system. Formed in 2013, CAEP is the single specialized accreditor for educator preparation and administers NCATE Accreditation.

Admission Information:

Must meet University requirements (see Graduate Admissions) as well as program requirements listed below.

Program Admissions Requirements:
- Must be teaching at the time of admissions (two years teaching experience recommended but must be teaching at time of admission) **AND**
- Applicants must have a bachelor's degree or equivalent from a regionally accredited university and teacher certification in an appropriate area **AND**

- At least a 2.5 cumulative grade point average for the four-year undergraduate degree and A cumulative grade point average for the upper 60 hours of the work leading to the baccalaureate degree **OR**
- A minimum score of 153 on the verbal section and 144 on the quantitative section of the Graduate Record Exam (GRE) taken within the previous five (5) years **OR**
- A previous graduate degree with a cumulative grade point average of 3.0 or higher

Degree Program Requirements:
Program of Study
Core Courses: (9 credit hours)

EDF 6481	Foundations of Educational Research	3
EDG 6120	Child Development	3
EDG 6935*	Seminar in Curriculum Research	3

*must take EDF 6481 before EDG 6935

Emphasis: (21 credit hours)*

MAE 6334	Problem solving for Elementary Teachers	3
MAE 6316	Geometry and Measurement for Elementary Teachers	3
MAE 6315	Algebraic Thinking for Elementary Teachers	3
SCE 6735	Trends in Science/Math Education for Elem Teachers	3
SCE 6855	**Teaching Biology & Oceanic Science in Elementary**	3
SCE 6803	**Physical Science for Elementary Teachers**	3
EDG 6931	Current Trends in Math/Science Assessment	3

Portfolio/E-Portfolio
Successful completion of a portfolio is required. Guidelines and important dates for submission are included on the program web page:
http://www.usfsp.edu/education/academics/elementary-education-mathscience-emphasis-graduate

Graduation Requirements

To be eligible for graduation, a student must earn an overall grade point average of 3.0 or higher on a 4.0 scale. No grade of C- or below will be accepted toward degree requirements. Students must be enrolled in a minimum of 2 credit hours in the semester of graduation. At graduation, all credits used to satisfy requirements for the master's degree must have been completed within five (5) academic years. Courses taken in lieu of those listed here must be approved in writing by the program graduate faculty advisor.

Master of Arts (M.A.) Degree in English Education

Degree Information

Program Admission Deadlines:

	Fall:	July 1 for best consideration
	Spring:	November 1 for best consideration
	Summer:	April 15 for best consideration
Program Level:		Masters
CIP Code:		13.1305
Department Code:		EDI
Program (Major/College)		AEN JP
Minimum Total Hours:		33

Contact Information:
Graduate Faculty Advisor**:**

Program Website**:**   http://www.usfsp.edu/education/academics/english-ed
Graduate Studies Website: http://www.usfsp.edu/grad

Program Information:
The English Education master's program is designed to provide specialized studies in educational theories and teaching methods, as well as English subject knowledge. The program does not lead to Florida teaching certification. The program is geared towards certified teachers of English, those seeking alternative certification in secondary English, and those preparing to teach at community colleges or lower-level courses at four-year universities or colleges.

Accreditation:
The University of South Florida St. Petersburg is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the baccalaureate and master's levels. The College of Education is accredited under the National Council for Accreditation of Teacher Education (NCATE) standards, through the Council for the Accreditation of Educator Preparation (CAEP) accreditation system. Formed in 2013, CAEP is the single specialized accreditor for educator preparation and administers NCATE Accreditation.

Admission Information
Must meet University requirements (see Graduate Admissions) as well as program requirements listed below.

Program Admission Requirements
- Applicants must have a bachelor's degree or equivalent from a regionally-accredited institution **AND**
- An undergraduate grade point average (GPA) of 3.0 or better on a 4.0 scale in all work attempted while registered as an upper division student (upper 60 hours) working toward a baccalaureate degree **AND**

- Proof of successful completion of all portions of the CLAST (prior to June 30, 2002), or the Praxis I, or the General Knowledge Test (GKT), or completion of the verbal and quantitative portions of the Graduate Record Exam (GRE) **OR**
- A previous graduate degree with a cumulative GPA of 3.0 or higher from a regionally accredited institution.

Degree Program Requirements: There are two options. Both plans of study require successful completion of 33 graduate credit hours (11 graduate courses).

Requirements for both options:

EDF 6432	Foundations of Measurement	3 **OR**
EDF 6481	Foundations of Educational Research	3 **OR**
EDG 6931	ST: Current Trends in Assessment	3
LAE 6637	Current Trends in English Education	3
(6) graduate courses at the 6000 level from the English Department		
(courses with AML, ENL, LIT, ENC, ENG, or LIN prefixes)		18

Option 1: General Education
In addition to the required courses above, students must take three (3) graduate elective courses (9 credit hours) at the 6000 from the College of Education (may include courses required for Florida teacher certification). Students should seek the advice of their graduate faculty advisor when choosing courses.

Option 2: Reading Endorsement
In addition to the required courses above, students must take three (3) graduate Level courses (9 credit hours) at the 6000 level towards the Florida Reading Endorsement.*

*To complete the Florida Reading Endorsement, students will be required to take two (2) additional courses. To qualify for the endorsement, students must successfully complete the following five (5) courses offered at USF St. Petersburg:

RED 6658	Foundations & Application of Differentiated	
	Reading Instruction	3
RED 6545	Issues of Vocabulary and Word Study	3
RED 6544	Cognition, Comprehension & Content Reading Area	3
RED 6540**	Assessment in Literacy	3
RED 6846**	Practicum in Reading	3

**RED 6540 and RED 6846 are co-requisites taught in the Fall semesters.

Comprehensive Papers

Comprehensive papers are required for both the General Education and the Reading Endorsement options. Students will write two (2) 20-page research papers plus references. One paper will be on a topic related to English content, such as literary criticism or theory related to a particular literary work, author or genre. The second paper will be on a topic related to teaching English or apply educational theory or practices to the English classroom, such as teaching writing in secondary school, teaching Shakespeare to middle school students, or using adolescent literature to teach struggling secondary students.

Graduation Requirements

To be eligible for graduation, a student must earn an overall grade point average of 3.0 or higher on a 4.0 scale. No grade of C- or below will be accepted toward degree requirements. Students must be enrolled in a minimum of 2 credit hours in the semester of graduation. At graduation, all credits used to satisfy requirements for the master's degree must have been completed within five (5) academic years. Courses taken in lieu of those listed here must be approved in writing by the program graduate faculty advisor.

Master of Arts (M.A.) Degree in Reading Education

Degree Information
Program Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	November 1 for best consideration
Summer:	April 15 for best consideration

Minimum Total Hours: 33-42 (varies depending upon elected options)

Program Level:	Masters
CIP Code:	13.1315
Department Code:	EDR
Program (Major/College):	ARD EP

Contact Information

Graduate Faculty Advisor:

Program Website: http://www.usfsp.edu/education/academics/reading-education-k-12-graduate-program
Graduate Studies Website: http://www.usfsp.edu/grad

Program Information:

The Reading Education Program is designed to prepare teachers, clinicians, supervisors, directors and coordinators of reading for school systems. The program provides an in-depth view of reading research, theories, and the application of theory to classroom teaching. Methods and theories studied in the program are based on sound and current scientific research. The Reading Education program at USF St. Petersburg is approved by the Florida Department of Education.

Accreditation:

The University of South Florida St. Petersburg is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the baccalaureate and master's levels. The College of Education is accredited under the National Council for Accreditation of Teacher Education (NCATE) standards, through the Council for the Accreditation of Educator Preparation (CAEP) accreditation system. Formed in 2013, CAEP is the single specialized accreditor for educator preparation and administers NCATE Accreditation.

Admission Information:

Must meet University requirements (see Graduate Admissions) as well as program requirements listed below.

Program Admission Requirements

Certified teachers in Elementary, ESE, Early Childhood, Secondary must have:
- A bachelor's degree or equivalent from a regionally-accredited institution **AND**
- A current Professional Educator's Certificate (if certificate is not from Florida, applicants must provide proof of successful passage of the Florida Teacher Certification Examination (FCTE) General Knowledge Test (GKT) **AND**
- A grade point average (GPA) of 3.0 or greater in all undergraduate upper division (upper 60 hours) work toward the baccalaureate degree **OR**

A graduate degree from a regionally accredited institution **OR**
Scores of at least a 153 in the verbal section and a 144 on the quantitative section of the
Graduate Record Exam (GRE) taken within the previous five years **AND**

- The English for Speakers of Other Languages (ESOL) endorsement, or the inclusion of a 60-hour
ESOL course in the planned program upon acceptance.

Degree Program Requirements
For certified students in Elementary, Secondary, ESE:

EDF 6481	Foundations of Educational Research	3
RED 6656	Trends in Literature in a Diverse Society	3
RED 6545	Trends and Issues in Vocab, Phonics & Word Study	3
RED 6658	Foundations & Application of Differentiated Reading Instruction	3
LAE 6315	Writing and Writers: Trends and Issues	3
RED 6544	Cognition, Comprehension & Content Reading Area	3
RED 6247	District and School Level Supervision in Reading	3
RED 6540	Assessment in Literacy	3
RED 6846	Practicum in Reading	3
RED 6449	Literacy and Technology	3
EDG 6935	Seminar in Curriculum Research	3
FLE 5345	Teaching ELLs K-12 (if not ESOL endorsed) Master's Comprehensive Exam	3

Graduation Requirements
To be eligible for graduation, students must earn an overall grade point average of 3.0 on a 4.0 scale.
No grade of C- or below will be accepted toward degree requirements. Successful completion of a
comprehensive exam (Action Research Project Paper and Presentation) with a score of 90% or above by
the posted due date is required. Fulfillment of the ESOL requirement. Students must be enrolled in a
minimum of two (2) credit hours in their semester of graduation. Passage of the Reading K-12 Florida
Teacher Certification Examination (FCTE) is required for graduation and for receiving reading
certification. At graduation, al credits used to satisfy requirements for the Master's degree must have
been completed within five (5) academic years from the term of entry. Courses taken in lieu of those
listed here must be approved in writing by the program faculty advisor. Successful completion of
FolioData, an ePortfolio is required. FolioData must contain evidence of proficiency level fulfilled on all
critical assignments aligned with the Florida Educator Accomplished Practices.

Masters of Arts (M.A.) Degree in Exceptional Student Education

Degree Information

Program Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	October 15 for best consideration
Summer:	March 1 for best consideration

Minimum Total Hours: 36

Program Level:	Masters
CIP Code:	13.1001
Department Code:	EDS
Program (Major/College):	AVE EP

Contact Information

Graduate Faculty Advisor:	Dr. Lyman Dukes
	ldukes@mail.usf.edu
	(727) 873-4054

Program Website: http://www.usfsp.edu/education/academics/exceptional-student-education-ese

Graduate Studies Website: http://www.usfsp.edu/grad

Program Information:

The Masters of Arts in Exceptional Student Education (ESE) provides an in-depth view of research, theories, and the application of theory to classroom teaching in Exceptional Student Education. This unique graduate program offers student a flexible program of study based on an applicant's previous degree, areas of interest, and experiences in the area of Exceptional Student Education. The program requires 36 credit hours and will vary depending upon the selection of track or endorsement areas. Coursework is provided through online classes, on-campus classes, and a blended model of online and in-class sessions.

The Masters of Arts in Exceptional Student Education offers a selection of tracks and/or endorsements as part of the graduate degree in Exceptional Student Education. These tracks allow the student to specialize in an area of interest and are noted below. Possible tracks/endorsement areas of study:
- Reading
- Math/Science
- Educational Leadership
- ESOL (online)
- Adjunct/Supervision Track in ESE
- Severe/Profound (online)
- Autism Spectrum Disorder (online)
- Gifted (online)
- Diversity Employability (in the workforce)
- Infant Family Mental Health
- Coursework leading to certification in Exceptional Student Education

Accreditation:

The University of South Florida St. Petersburg is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award degrees at the baccalaureate and master's levels. The College of Education is accredited under the National Council for Accreditation of Teacher Education (NCATE) standards, through the Council for the Accreditation of Educator Preparation (CAEP) accreditation system. Formed in 2013, CAEP is the single specialized accreditor for educator preparation and administers NCATE Accreditation.

Admission Information

Must meet University requirements (see Graduate Admissions) as well as program requirements listed below.

Program Admission Requirements

Applicants must have:

- A bachelor's degree or equivalent from a regionally accredited institution **AND**
- A minimum grade point average of 3.0 or higher in the upper-level (upper 60 hours) courses of the undergraduate degree **OR**
- At least a 2.5 grade point average for the undergraduate degree for the upper-level courses of the undergraduate degree **AND** GRE scores of 151-155 or better on the verbal portion and 143-146 or better on the quantitative portion and an essay score of 4.5 or better. The GRE must have been taken within five years previous to the applicant's desired term of entry **OR**
- A graduate degree from a regionally accredited institution.

Required Courses:

EDF 6481	Foundations of Educational Research	3
EEX 6732	Consultation and Collaboration in Special Education	3
EEX 6245	Transitional Programming for Adolescents and Adults Exceptionality	3
EEX 5752	Working with Families: A Pluralistic Perspective	3
EEX 6939	Advanced Seminar in Special Education	3
EEX 6943	Practicum	3

In addition to the 18 credit hours listed above, student will have an addition 18 graduate credit hours as determined by the track selected. Courses are taken only with prior approval from the graduate faculty advisor; therefore, students are encouraged to set out an individualized plan of study with help from their advisor.

Graduation Requirements:

Successful completion of all requirements listed on the student's planned program of study. At graduation, all credits used to satisfy requirements for the master's degree must have been completed within five (5) academic years and the degree must be completed with a cumulative GPA of 3.0 or higher. No grade of C- or lower will be used to satisfy degree requirements. Courses taken in lieu of those listed here must be approved in writing by the graduate faculty advisor.

Master of Science (M.S.) Degree in the Middle Grades Science, Technology, Engineering and Math (STEM) Education

Degree Information

The Masters of Science in Middle Grades (STEM) Education is designed to prepare middle school educators to teach in the challenging and high demand fields of science, technology, engineering and mathematics.

Program Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	November 1 for best consideration
Summer	April 15 for best consideration

Minimum Total Hours: 36

Program Level:	Masters
CIP Code:	13.1203
Department Code:	EDI
Program/Major Code:	STM EP

Contact Information:

Graduate Faculty Advisor:	David Rosengrant
	rosengrant@usfsp.edu
	(727) 873-4644
Program Website:	https://www.usfsp.edu/education/academics/masters-of-science-m-s/
Graduate Studies Website:	http://www.usfsp.edu/grad

Program Information:

The Masters of Science degree in Middle Grades STEM Education cultivates and trains teachers in STEM programs (science, technology, engineering and math) to both create STEM-related experiences that excite and interest students of all backgrounds and to support states and school districts in their efforts to transform schools into vibrant STEM learning environments. The program engages middle school science and mathematics teachers in ways to improve their content knowledge and enhance pedagogical skills in teaching mathematics and science and prepares middle grades mathematics and science teachers for roles as teacher leaders; and, prepares middle school STEM teachers to inspire and teach students to be successful in STEM education, thereby increasing the number of individuals capable of filling critically important STEM-related career positions.

Admission Information

Must meet University requirements (see Graduate Admissions) as well as program requirements listed below.

Program Admission Requirements

- Must be teaching in math and/or science in middle grades (5-9) at time of admission (preference is two (2) years);
- Earned bachelor's degree or equivalent in a STEM-related field from a regionally accredited university and teacher certification in an appropriate area;

- Grades of 'C' or better in all core undergraduate science and mathematics courses;
- At least a 2.5 cumulative grade point average (GPA) in all coursework taken to satisfy the requirements of the bachelor's degree, and in the upper two years' coursework (upper 60 hours) of the undergraduate degree requirements **AND**
- A grade point average of 3.0 or greater for the upper two years' coursework (upper 60 hours) of the undergraduate degree **OR**
- A minimum range score beginning at 153 for the verbal section and 144 for the quantitative sections of the Graduate Record Exam (GRE) taken within the last five (5) years **OR**
- A previous graduate degree from a regionally accredited university with grades of 'B' or better in all science and mathematics graduate level coursework

Degree Program Requirements

Program of Study – 36 credit hours

EDF 6481	Foundations of Educational Research	3
RED 6544	Cognition, Comprehension and Content Area Reading	3
EDG 6935	Seminar in Curriculum Research	3
SCE 6836	Teaching Earth Space in Middle Grades	3
SCE 6876	Teaching Biology and Ocean Science in Middle Grades	3
SCE 6804	Physical Science for Middle Grade Teachers	3
MAE 6329	Geometry and Measurement in the Middle Grades	3
MAE 6650	Technology-Enhanced Numerical Analysis in the Middle Grades	3
MAE 6654	Teaching Technology-Enhanced Algebra in the Middle Grades	3
SCE 6738	Trends in STEM for Middle Grades Teachers	3
EDG 6931	Current Trends in Math/Science Assessment	3
SMT 6315	Middle and Secondary STEM Methods	3

Graduation Requirements

- To graduate, students must successfully complete the required coursework (**36 credit hours**) with a **3.0 or higher** grade point average.
- Students must possess **ESOL certification** upon completion of the program. If a student enters the program without ESOL certification, it is the student's responsibility to provide proof of successful ESOL certification prior to being certified to graduate.
- The program's first capstone experience, an action research project on a STEM-education topic, is a course requirement of Seminar in Curriculum Research. This project results in a **research paper** based on the research carried out in the teacher's classroom. As part of the course requirements, the student will create a conference-quality **poster and session** hosted by course participants, which is held at USF St. Petersburg at the end of the semester.
- Successful completion of a **portfolio**. In the portfolio, students will demonstrate how their teaching strategies have developed, based upon their work in this program. Guidelines and important dates for submission are included on the department's home page.

Graduate Certificate in Teaching of Middle Grades Digitally-Enhanced Mathematics Education

Certificate Admission Deadlines:

Fall:	July 1 for best consideration
Spring:	November 1 for best consideration
Summer:	April 15 for best consideration

Minimum Total Hours: 15

Program Level: Graduate Certificate

Contact Information: Dr. Karina Hensberry
                                Khensberry@mail.usf.edu
                                (727) 873-4273

Graduate Studies Website: http://www.usfsp.edu/grad

Program Information:

The five-course sequence for this technology-enhanced certificate program comprises a middle-grades methods course, a course in content area reading, and three mathematics courses that incorporate the use of interactive, representational technology when teaching algebra, geometry, measurement and data analysis. Together, these courses are designed to provide teachers with the mathematical, pedagogical, and technological foundation required to prepare middle school students for high school mathematics. The curricular focus includes both teaching conceptually-based instructional sequences, as well as developing conceptually-based instructional strategies for use in the middle school mathematics classroom. As a result, each course in the certificate will contain a school-embedded technology project to provide documentation of student learning in each of the big ideas identified by Florida's Next Generation Sunshine State Standards in mathematics.

Admission Information:

Must meet University Requirements (see Graduate Admissions) as well as program requirements listed below.

Program Admission Requirements:

- Applicants must have earned a bachelor's degree from a regionally accredited institution **AND**
- Applicants must have a cumulative 2.5 GPA or higher for their baccalaureate degree and a 3.0 GPA or higher for the upper-level (upper 60 hours) coursework toward completion of the baccalaureate degree **OR**
- Submission of a GRE score.

Certificate Program Requirements:

MAE 6356	Teaching of Pre-Secondary School Mathematics	3
RED 6544	Cognition, Comprehension and Content Area Reading	3
MAE 6327	Teaching Technology-Enhanced Algebra in Middle Grades	3
MAE 6337	Teaching Technology-Enhanced Geometry in Middle Grades	3
MAE 6650	Technology-Enhanced Numerical Analysis in the Middle Grades	3

For any teacher seeking to pursue a Master's degree program, four of the five courses from the certificate are transferable with advance approval by the degree program's graduate faculty advisor.

Students seeking a graduate certificate in the Teaching of Middle Grades Digitally-Enhanced Mathematics Education must meet additional graduate student requirements (i.e. time limitations and good academic standing) as outline in Section 4 of this catalog entitled *Graduate Certificate Students.*

Graduate Course Information

Courses offered for credit by the University of South Florida St. Petersburg are listed with the program or college that offers them. The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

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. This common numbering system is used by all public postsecondary institutions in Florida and by participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. 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 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 Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course details." Courses are created using the Statewide Course Numbering System. The following information is from the SCNS handbook. For more information: http://scns.fldoe.org.

The SCNS uses a course designation which consists of a three-letter prefix and a four-digit number and, when necessary, a one-letter laboratory (L) or lecture/laboratory (C) suffix.

Example: SCNS Course ID

AML	6	017		
Prefix	Level	Denotes Content	Suffix	Laboratory

Explanation: AML 6017, Studies in American Literature to 1860.
American Studies course taught at the graduate level (no lab).

A level code, which roughly corresponds to the year in college the course is normally taken (i.e. master's, doctoral, etc.), is placed between the course prefix and the course number. The level is recommended by the institution according to its own policies and the policies of the State of Florida, and approved by faculty committee. The level digit does not affect course equivalency – course equivalency is determined by the prefix and the last three digits. The following are level definitions:

0 – PSAV, college prep, vocational prep
1-2 Lower-level undergraduate
3-4 Upper level undergraduate
5-9 Graduate and Professional

Important Note: USF St. Petersburg does not accept any courses below the graduate and professional level (5000 level or above) to count towards satisfactory completion of a graduate degree.
Courses are numbered based on content, rather than by department or program. This means that a single program may have courses in several disciplines and may consist of courses having several different prefixes.

Glossary of Course Description Terms
Credits separated by a colon indicate concurrent lecture and laboratory courses taught as a unit:

PHY 3040, 3040L PHYSICS and LAB (3:1)

Credits separated by a comma indicate unified courses offered in different semesters:

AMH 2010, 2020 AMERICAN HISTORY I, I (4,4)

Credits separated by a hyphen indicated variable credit:

MAT 7912 DIRECTED RESEARCH (1-4)

The following abbreviations are used in various course descriptions:

G   Graduate
PR   Prerequisite
CI   With the consent of the instructor
CC   With the consent of the chairperson of the department or program
CR   Co-requisite
Lec   Lecture
Lab   Laboratory
Dem   Demonstration
Pro   Problem
Dis   Discussion
ML   Master's Level
GS   Graduate Standing
Rpt   May be repeated
UL   Upper Level
S/U   No grade, Satisfactory/Unsatisfactory Only

Course Level Definitions:

5000-5999   Graduate Level
6000-6999   Graduate Level
7000-7999   Doctoral Level
8000   Professional

The University reserves the right to substitute, not offer, and add courses and programs that are listed in this catalog.

Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)
SYG	1	0	1	0
Sociology, General	Freshman Level	Entry Level General Sociology	Survey Course	Social Problems

Graduate Courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institutions. Students should always get prior approval and a determination of transferability from their graduate faculty advisor before taking a course at another institution.

COURSE DESCRIPTIONS

ACG 5007   MBA Essentials: Accounting (0)
A survey course related to both financial accounting and managerial accounting. An examination of accounting concepts for presentation of financial information to interested users as well as information generated for internal management.

ACG 5205   **Advanced Financial Accounting (3)**
Accounting for business combinations, preparation of consolidated financial statements, home office/branch relationships, foreign operations and transactions, partnerships.
Pre-requisite: ACG 3113

ACG 5375   **Valuation of Closely Held Business (3)**
Prepares students to assess how a firm can increase its value. Students develop an understanding of the principles behind business valuation and learn how to use these principles to assess a company's value through a case study.

ACG 5505   **Governmental/Not-For-Profit Accounting (3)**
Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.
Co-requisite: ACG 4632; Pre-requisite: ACG 3113

ACG 5675   **Internal and Operational Auditing (3)**
The objective of internal and operational auditing is to provide students with an opportunity to learn about the theory and practice of internal and operational auditing and to apply relevant audit principles and techniques to selected audit problems.
Co-requisite: ACG 4632; Pre-requisites: ACG 3113 and ACG 3401

ACG 5841   **Analytics in Accounting (3)**
This course deals with analytics, understood as the discovery and communication of meaningful patterns. The focus is on accounting applications of analytics, after first understanding statistical techniques and data manipulation processes and tools.
Pre-requisite: ACG 4632, or admission to Muma COB MBA program (USF Tampa).

ACG 6025   **Financial Accounting for Managers (2)**
Study of (1) accounting concepts and standards applicable to presentation of financial information to interested users, (2) structure and interpretation of financial statements, especially issues of income determination and assessment measurement.

ACG 6026   **Accounting Concepts for Managers (3)**
A graduate level introduction to the role of accounting information in the decisions of internal and external users of financial information and statements.
Pre-requisite: requires admission to the Certificate in Business Foundations.

ACG 6028   **Measuring Organizational Effectiveness (3)**
This course provides a graduate level introduction to financial and non-financial performance measures. The course considers how stakeholders of private and public sector organizations use financial and non-financial measures to access how ell, and at what cost, these organizations are able to achieve strategic/operating goals and objectives.

ACG 6075   **Management Accounting and Control (2)**
Deals with management accounting systems for different types of entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.
Pre-requisite: ACG 6025

ACG 6346   **Contemporary Issues in Managerial Accounting (3)**
The evolution of cost accounting systems, and the impact of new managerial accounting philosophies in the modern international manufacturing environment, including a discussion of current issues and controversies involving managerial accounting.
Pre-requisite: ACG 3341 or equivalent

ACG 6405   **Advanced Accounting Information Systems (3)**
This course focuses on business process modeling techniques for creating advanced enterprise-wide accounting systems. The course also focuses on information systems risks, controls and auditing, and enterprise resource planning systems.
Pre-requisite: ACG 6453

ACG 6457   **Accounting Systems Audit, Control and Security (3)**
An in-depth study of contemporary systems control security from an audit perspective. Course topics will include: IS audit standards, contemporary AIS technologies, and the development and maintenance of AIS integrity.
Pre-requisite: ACG 3401 or equivalent, or BUL 5842

ACG 6476   **Contemporary Issues in Accounting Information Systems (3)**
An in-depth study of current accounting information systems issues confronting the accounting profession. Graduate students research and study contemporary and emerging topics in the field.

ACG 6496   **Computer Forensics and Accounting (3)**
Introduces the current IT audit, forensic and investigative software and processes used to explore contemporary accounting systems and databases. Students are exposed to electronic and other means of surveillance in use today.

ACG 6636   **Contemporary Issues in Auditing (3)**
This course explores contemporary auditing issues and advanced topics concerning the changing role of the audit assurance function and changing audit processes. Topics include audit reporting, auditing in advanced computerized environments, audit judgment, quality control, and regulation of the profession.
Pre-requisite: ACG 4632

ACG 6678   **Legal Aspects of Fraud and Information Assurance (3)**

This course covers various aspects of the detection, investigation and prevention of complex financial crimes including accounting fraud, corporate fraud, public corruption, white-collar crimes, cybercrimes and the related legal issues.
Pre-requisite: BUL 5842 with a minimum grade of C+

ACG 6686   **Fraud Examination (3)**
This course is an important component in the study of forensic accounting, and exposes the students to current theories and practices relating to the detection and prevention of fraud and white-collar crime.

ACG 6687   **Fraud and Financial Reporting (3)**
An examination of financial reporting fraud from the standpoint of both, a financial Statement user and an accountant, exploring the ways in which financial statement Frauds are committed.

ACG 6688   **Forensic Accounting and the Legal Environment (3)**
Designed to further the student's knowledge of the contemporary legal environment faced by forensic accountants.

ACG 6835   **Accounting Skills, Values, and Information Technology (3)**
This course is designed to introduce Masters of Accountancy students to the basic skills, competencies, and technologies of accounting.

ACG 6841   **Innovation and Analytics in Accounting (3)**
Topics covered include the latest innovations in accounting and application of contemporary analytics to discover value-adding insights for a range of organizations in various accounting related settings.
Pre-requisite: ACG 3401 with a minimum grade of C

ACG 6875   **Financial Reporting and Professional Issues (3)**
A study and evaluation of the evolution of current financial accounting theory. An examination of financial accounting objectives, measurement models, and controversial issues, from both a financial reporting and professional (auditing) perspective.
Co-Requisite: ACG 6453

ACG 6905   **Independent Study (1-19)**
Student must have contract with instructor.

ACG 6915   **Directed Research (1-19)**

ACG 6932   **Integrative Accounting Seminar (3)**
Use of case studies to explore the interaction of accounting and business topics that have been previously emphasized in separate courses.

ACG 6936   **Selected Topics in Accounting (1-4)**
The course content will depend on student demand and instructor's interest.

ADE 6070   **International Adult Education (3)**
Provides a survey of the field of international adult education. Current practices and

Historical efforts internationally will be explored.

ADE 6080   **Adult Education in the United States (4)**
A study of the adult education movement in the United States from its beginnings to the Present lifelong learning enterprise it has become. Economic and cultural factors of the Past are examined with a view toward implications for the future.

ADE 6160   **Program Management in Adult Education (3)**
An examination of the methods for establishing a productive adult education program, and the principles and procedures involved in designing, organizing, operating, and evaluating comprehensive adult education programs.

ADE 6161   **Curriculum Construction in Adult Education (4)**
Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation. Concentrates on basic principles affecting the planning of Adult Education activities, including an overview of the human forces that both impinge on and motivate human behavior in an adult learning environment.

ADE 6107   **Adult Basic Education (4)**
An overview of adult basic education with an emphasis on current issues and problems of curriculum and instruction in program development and on culturally different adults.

ADE 6198   **Effective Continuing Education for Professionals (3)**
This course will provide a description, explanation and critique of the goals, processes, outcomes, and issue related to the continuing education of professionals. The design, development and administration of these programs will be explored.

ADE 6287   **Supervision of Local Adult Education Programs (4)**
A study of the factors involved in the supervision of instruction, including plans for teacher education, improvement of instruction, coordination of activities, and personal relations.

ADE 6360   **Methods of Teaching Adult Education (3)**
An exploration of different methods, techniques, and materials available to help adults learn. Concentration on the process of designing effective learning experiences for adults and developing the competencies of self-directed learning.

ADE 6370   **Human Resource Development (3)**

A study of learning, training, and education as it is practiced in the public, private, and the non-profit sectors. Course covers HRD history, key competencies, and relevant theory.

ADE 6385   **The Adult Learner (3)**
An investigation of the physiological and psychological changes in the adult life span and the implications these have for adult learning capabilities. Concentration on the identification of principles of adult learning, differences between adults and youth as learners, and a review of research.

ADE 6389   **Adult Learning and Cognitive Styles (3)**
The course focuses on a foundational knowledge of brain-based learning and its impact on adult learners, including critique and assessment of learning styles.

ADE 6906   **Independent Study (1-19)**
Independent Study in which students must have a contract with an instructor.

ADE 6931   **Selected Topics in ADE and HRD (1-5)**
Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic.

ADE 6946   **Practicum in Adult Education (2-6)**
A problem-centered field study in the local community, school, government, office, social agency, business, or industry setting.

ADE 6966   **Final Master's Seminar (4)**
This course is designed to provide in-depth review of various areas of adult education. It is designed to prepare individuals for the comprehensive exams. Emphasis also will be on developing familiarity with formal research literature.

ADE 6971   **Thesis: Masters/Education Specialist (2-19)**
Thesis/Specialist project hours.

ADV 5005   **Advertising Planning (3)**
Introduction to the process of developing advertising strategy, emphasizing theory and research methods. Applied research course to bridge research methods with execution of creative messaging strategies that drive business success.

ADV 5508   **Return on Advertising Investment (3)**
An in-depth analysis of the performance metric required to determine the success of Advertising and marketing in fiscally accountable business practice. Metrics will include, both, quantitative and qualitative measures of advertising planning.

ADV 5825   **Advertising Proseminar (3)**
Students will learn the basic concepts of advertising, public relations, promotion, branding, and direct marketing, and their applications for integrated marketing campaigns.

ADV 6305 **Advertising Media Strategy (3)**
Advanced knowledge of brand media strategy development across traditional, digital, and social media. Students will become acquainted with practices, tools, and theory of media planning, media relations, and how they fit into the marketing process.

ADV 6505 **Advertising Research (3)**
Designed to teach normal campaign research through various methods, including: copy testing, survey content development, sample frame development, consumer insights, brand triggers, and purchase intent.

ADV 6602 **Advanced Advertising Management (3)**
Focuses on application of management principles and practice to effective development of advertising plans. The course includes case studies and discussion of current problems in research, planning, operations, administration, and evaluation.

AFA 6108 **Social Construction of Race and Racism (3)**
Examinations of the social construction of race, racism, racial identities and cross-racial relationships in the US from the colonial period to present.

AFA 6120 **Social Theory and Social Thought (3)**
Course examines the nature of social theory as an analytical tool and its relevance for understanding social thought and the historical and contemporary experiences of peoples of African descent in Africa and the Diaspora.

AFA 6207 **African American Historiography (3)**
This course introduces graduate students to some of the major topics and texts in African American history. Readings will include both classic studies and recent innovative works in the field. The course is open to majors and non-majors.

AFA 6355 **African American Community Research: Ethnography (3)**
This course is designed to assist students in understanding the dynamics of African American communities and community research in urban settings.

AFA 6387 **Seminar on Genocide and Human Rights (3)**
Examines "genocide" and "human rights" as concepts and crimes; the debates that have developed around them and the circumstances in which perpetrators of these crimes deprive particular groups of people of their "right to life."

AFA 6805 **African Historiography (3**)
The course deals with the history of the writing of African history. It pays attention to the sources and methods that Africanists use to study Africa and major themes in the continent's history, and the debates and interpretations they have generated.

AFA 6905 **Independent Study (1 –19)**

Course consists of advanced graduate research on Africana studies topics selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.

AFA 6910   **Directed Research (1 -12)**
Course consists of directed research on Africana studies topic selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.

AFA 6932   **Topics in Africana Studies (3)**
Variable topics course focusing on the history, culture, and lived experiences of African, African-American, and/or other peoples of African descent worldwide. Rpt. Up to 12 hours as topics may vary.

AFA 6945   **Internship (1-3)**
This course involves working with a local agency (gov't., NGO, private, etc.) on topic related to the theme of the MA degree, researching and documenting the process and preparing the data for writing the masters thesis.

AFA 6971   **Thesis (2-19)**
Thesis.

AML 5305   **Studies in Individual American Authors (3)**
This course provides advanced study of two or three selected authors who are considered to have made major contributions to the development of American literature.

AML 6017   **Studies in American Literature to 1860 (3)**
Selected focused studies in American literature before 1860: the Puritans, Franklin, Cooper, Irving, Poe, Emerson, Hawthorne, Melville, and others.

AML 6018   **Studies in American Literature 1860 to 1920 (3)**
Selected focused studies in American literature: Dickinson, Whitman, Twain, Howells, James, Jewett, Chopin, Crane, Dreiser, and others.

AML 6027   **Studies in Modern American Literature (3)**
Modern American drama, poetry, fiction, and literary criticism; authors include Faulkner, Hemingway, Fitzgerald, O'Neill, Miller, Anderson, Wolfe, Cummings, Frost, Pound, and Eliot.

AML 6608   **Studies in African American Literature (3)**
Focuses on varied topics in African American literature such as African American Fiction and the Harlem Renaissance. Topics will supply greatly needed coverage of increasingly important areas of American and African American literature, history, and culture.

AML 6637   **Studies in US Latina/Latino Literatures (3)**
Students will explore the major strands of US Latina/o Literatures including immigration narratives, auto ethnography, and historical fiction from or about the perspective of US Latinas/os.

AMS 6002   **American Lives (3)**
Open to non-majors. An interdisciplinary approach to the study of autobiography. Examines the relationship between identity and community in classic American

autobiographies. Utilizes autobiography as a resource of social and cultural history which provides insights regarding the complex interaction between a life, a mind, and a text.

AMS 6026   **Florida and Regional Studies (3)**
This course will examine the evolution of regional cultures and regional thinking in the United States while situating the study of Florida within the larger enterprise of regional studies.

AMS 6156   **Theories and Methods of Cultural Studies (3)**
This course examines the relationship between the arts and society by introducing various approaches to the study of literature, art, and culture that are of contemporary relevance to graduate students in the liberal arts and American Studies.

AMS 6254   **Cultural Era (3)**
Open to non-majors. Interdisciplinary analysis of American life during a specific cultural era.

AMS 6805   **Enduring Questions in American Culture (3)**
Open to non-majors. Explores the historical changes and continuities of an enduring theme, issue, pattern, or practice in American culture across multiple cultural eras. E.g., democracy, wilderness, jazz, domesticity, regionalism, ethnicity.

AMS 6901   **Directed Readings in American Studies (1-3)**
Open to non-majors. A supervised program of intensive reading.

AMS 6915   **Directed Research (1-12)**
Directed research course.

AMS 6934   **Selected Topics (1-3)**
Open to non-majors. Variable topics such as American Autobiography, Film in American Culture, and Photography in American Culture.

AMS 6938   **Research Seminar (3)**
A course emphasizing the practical aspects of research in American Studies including analyzing primary sources, assembling a bibliography, synthesizing secondary sources, and defining an argument. Topic varies.

AMS 6940   **Internship in American Studies (1-3)**
A structured, out-of-class learning experience providing first hand, practical training in American Studies-related professional careers.

AMS 6971   **Thesis: Master's (2-19)**
A Master's thesis course.

ANG 5395   **Visual Anthropology (3)**
This class will examine the major dimensions of visual anthropology with an emphasis on the visual means of presenting anthropology to the discipline and general public. The course will focus on visual documentation and study of visual images.

ANG 5406   **Ethnobotany: People, Plants and Culture (3)**
This course examines the structure and function of plants, the development of the field of ethnobotany, and the practice of ethnobotany.

ANG 5486   **Quantitative Methods in Anthropology (3)**
This course is an introduction to quantitative methods for the anthropologist covering both classical statistical approaches and exploratory data analysis, using computers with statistical software.

ANG 5901   **Directed Reading (1-4)**
Individual guidance in concentrated reading on a selected topic in Anthropology. Contract required prior to registration.

ANG 5910   **Individual Research (2-4)**
Individual guidance in selected research project.

ANG 5937   **Seminar in Anthropology (2-4)**
Topics to be chosen by students and instructor.

ANG 6081   **Museum Methods (4)**
The class introduces students to contemporary issues in exhibit practice in anthropology museums, and offers practical, hands-on experience in the design and fabrication of a museum exhibit based on anthropological concepts.

ANG 6084   **Anthropological Theory Today (3)**
This course provides an overview of contemporary theorizing in social and cultural anthropology for graduate students.

ANG 6100   **Topics in Archaeological Science (3)**
This course focuses on the application of scientific methods of analysis to archaeological materials, including bone, stone, pottery, and metal. Repeatable for up to 6 hours.

ANG 6110   **Archaeology Theory and Current Issues (3)**
Methodology and theory in archaeology, analysis, interpretation of data.

ANG 6115   **Seminar In Archaeology (3)**
An advanced critical survey of archaeology emphasizing contributions to applied anthropology.

ANG 6153   **Topics in North American Archaeology (3)**
Comprehensive understanding of the prehistoric development of American Indian cultures in the main geographical regions, with emphasis on current issues in cultural resource management. Repeatable for up to 6 hours.

ANG 6155   **Southeastern U.S. Archaeology (3)**
The course examines the culture history and processes of change or continuity throughout the region of the Southeast, as well as the often differing record for various local areas, from prehistoric through historic times.

ANG 6163   **Topics in Mesoamerican Archaeology (3)**
This course explores the distinctive features of the evolving cultural traditions of Mesoamerica. This course identifies the major issues and methodological approaches of Mesoamerican archaeology. Repeatable for up to 6 hours.

ANG 6165   **Topics in South American Archaeology (3)**

This course introduces the prehistoric and early historic cultural chronology of the South American continent, with an emphasis on current research and controversies and perspectives from cultural ecology. Repeatable for up to 6 hours.

ANG 6175 Topics in Mediterranean Archaeology (3)
A graduate seminar in Mediterranean archaeology, spanning prehistory and the early historical period, and will examine subsistence adaptations, island settlement, trade, technology, religion, rise of complex societies and early states. Repeatable to 6 hr.

ANG 6189 Ancient Diets (3)
This course focuses on archaeological remains and studies about ancient diet, a fundamental practice by all world cultures.

ANG 6195 Ancient Trade (3)
This course focuses on long-distance trade and contact in ancient times, based on archaeological evidence and scientific studies, and how this informs us about sociopolitical systems and economic relations and how they vary over time and space.

ANG 6197 Public Archaeology (3)
This graduate-level course surveys archaeological practice as part of applied anthropology, in the public and private sector, from local to international.

ANG 6198 Regional Problems in Methods of Public Archaeology (3)
Contemporary problems in Public Archaeology in the context of a specific region. Open to non-majors.

ANG 6270 Chiefdoms (3)
This course examines theory and data on the emergence of chiefly forms of social organization using case studies from both ethnography and prehistory, and focusing on classic works of cultural evolution and recent critiques of the chiefdom concept.

ANG 6302 Gender in Cross-Cultural Perspective (3)
Examines roles of women, men, other genders and social, economic, and political aspects of sex and gender, from a biocultural, 4-field anthropological perspective, emphasizing non-Western societies and cross-cultural comparison in past and present.

ANG 6392 Engaging Ethnography (3)
What does engaged research and writing look like, and to what effect? Explore ethnographic monographs to discover how various forms of engagement can transform research epistemologies, questions, methodologies, and products, and define own approach.

ANG 6393 Anthropology, Contemporary Culture and the Media (3)
Course entails the anthropological study of the roll of media in contemporary culture. Selected issues include the cultural impact of images and gender/ethnic stereotypes. Special attention will be paid to ethnographic studies of media audiences, and a central theme will be the roll of media in a global, multi-cultural context.

ANG 6404 Health and Medical Systems (3)
An explicitly medical anthropological approach to systems-level issues in health and medicine.

ANG 6436 Issues in Heritage Tourism (3)

The purpose of this course is to introduce students to the theoretical and practical issues in heritage tourism and the business of heritage resource management from an anthropological perspective.

ANG 6447   **Selected Topics in Urban Anthropology (3)**
Current topical issues in Urban Anthropology. Open to non-majors.

ANG 6448   **Regional Problems in Urban Anthropology (3)**
Contemporary problems in Urban Anthropology in the context of a specific region. Open to non-majors.

ANG 6463   **Social Epidemiology Applied Anthropology (3)**
An advanced medical anthropology course on the application of methods and concepts from social epidemiology as relevant to cultural analysis.

ANG 6465   **Regional Problems in Medical Anthropology (3)**
Contemporary problems in Medical Anthropology in the context of a specific region. Open to non-majors.

ANG 6469   **Selected Topics in Medical Anthropology (3)**
Current topical issues in Medical Anthropology. Open to non-majors.

ANG 6490   **Seminar in Cultural Anthropology (3)**
A critical advanced survey of Cultural Anthropology emphasizing contributions to Applied Anthropology, required of all MA students.

ANG 6495   **Oral History and Life History: Approaches to Qualitative Research (3)**
An in-depth survey of the methods, concepts, and practical applications of narrative-based qualitative research, featuring critical readings in case studies, and individual and group projects.

ANG 6497   **Qualitative Research Methods in Anthropology (3)**
This course is designed to acquaint students with the philosophical foundations of qualitative research, and to provide the opportunity for students to develop skills in the variety of data collection methods and analysis typical of qualitative research.

ANG 6511   **Seminar in Physical Anthropology (3)**
A critical advanced survey of Physical Anthropology emphasizing contributions to Applied Anthropology.

ANG 6525   **Human Osteology (3)**
This course involves the detailed examination of the elements of the human skeleton with an emphasis on identifying individual bones and their structures.

ANG 6533   **Anthropology of Human Growth and Development (3)**
Overview of human growth and development from a perspective that combines biological and cultural approaches in anthropology.

ANG 6536   **Bioarchaeology (3)**
Overview of methods and theories used to study the relationship between behavioral, cultural, and environmental factors and human biology, as reflected in human skeletal remains.

ANG 6570   **Nutritional Assessment (3)**
Overview of basic nutritional assessment methods used in anthropology, nutritional sciences, and public health.

ANG 6575   **Neuroanthropology (3)**
This class will provide students with a comprehensive overview of the emerging field of Neuroanthropology.

ANG 6584   **Evolution and Life History Theory (3)**
Life history theory is the study of how organisms evolved to optimize their resources to maximize reproductive success. This course will primarily focus on human life histories and provides the theoretical background of evolutionary life history theory.

ANG 6585   **Theories in Applied Bioanthropology (3)**
A survey of the major theoretical frameworks and quantitative and qualitative methodologies commonly used in biological anthropology research.

ANG 6701   **Contemporary Applied Anthropology (3)**
A critical survey of Applied Anthropology as practiced today in the major branches of Anthropology, focusing on Applied, Medical, and Urban Anthropology. Open to non-majors.

ANG 6705   **Foundations of Applied Anthropology I (3)**
MA Foundations of Applied Anthropology I provides graduate students with an introduction to the philosophical basis of contemporary anthropology.

ANG 6706   **Foundations of Applied Anthropology II (3)**
This course is the second part of a two-course sequence required of all MA students in the anthropology department. This course provides students with foundational understandings of the epistemologies underlying contemporary applied anthropology.

ANG 6730   **Socio Cultural Aspects of HIV/AIDS (3)**
This course is designed to provide an overview of the different social, economic, cultural, political, and ethical issues surrounding the spread of HIV/AIDS around the world.

ANG 6731   **Health and Disasters (3)**
Disasters like Katrina and complex emergencies like Bosnia exacerbate social divisions and impact the health status of individuals, communities, and nations. This course considers mitigation policies and humanitarian responses.

ANG 6732   **Global Health from an Anthropological Perspective (3)**
The aim of the course is to situate the debate about what is 'global health' clearly in an anthropological perspective.

ANG 6733   **Issues in Migrant Health (3)**
This course provides an overview of health issues associated with transnational migration from an anthropological point of view.

ANG 6735   **Reproductive Health (3)**
An in-depth examination of major issues related to sexual and reproductive health in both domestic and international settings, with emphasis on perspectives from medical anthropology, public health, and women studies.

ANG 6739   **Applied Anthropology and International Health (3)**

An advanced international anthropology course on the health issues, organization, people, policies and limitations of the arena of international health.

ANG 6741   **Introduction to Forensic Sciences (3)**
Provides a general introduction to the methods and techniques used in the interdisciplinary field of forensic sciences.

ANG 6745   **Forensic Anthropology (3)**
Provides a general introduction to the methods, theories, and techniques of Biological Anthropology as applied to medico-legal death investigations

ANG 6746   **Investigation of Violent Crimes Against Children (3)**
Advanced instruction for students to help them to understand the definitions of various forms and aspects of neglect, abuse, exploitation, abduction, and murder involving child victims.

ANG 6766   **Research Methods in Applied Anthropology (3)**
Research design, data collection, and data analysis for Applied Anthropologists with urban and medical interests. Emphasis will be on non-quantitative research methods. Open to non-majors.

ANG 6770   **Crime Scene Reconstruction (3)**
Surveys theories and methods of crime scene management and administration for violent crimes. Specifically it is designed to explore the ways in which evidence is recognized, preserved, documented, and collected in cases of violent crimes.

ANG 6771   **The Science of Missing and Unidentified Persons (3)**
Surveys scientific methods for the investigation of missing, endangered, and unidentified persons. Topics include forensic anthropology, archaeology, odontology, forensic pathology, crime scene, victimology, homicide, and facial approximations.

ANG 6772   **Homicide Investigations (3)**
Provide an introduction to the theoretical and practical issues in the field of criminal homicide investigations, and to teach the methods and tools necessary to collect, preserve, interpret and analyze evidence from violent crime scenes.

ANG 6905   **Independent Study (1-19)**
Independent study in which students must have a contract with an instructor.

ANG 6915   **Directed Research Internship (1-19)**

ANG 6971   **Thesis: Master's (2-19)**

ANT 2511L   **Biological Anthropology Laboratory (1)**
This is a lab companion to an overview of biological anthropology. The students will be doing laboratories which are relevant to the class topics covered in the lecture hall in ANT 2511.

ANT 4183C   **Archaeological Science (4)**
This course focuses on the application of scientific methods of analysis to archaeological materials including bone, stone, pottery, and metal. Methods include absolute dating, remote sensing, optical and SEM microscopy, elemental and isotope analysis. Laboratory

sections provide hands-on experience with a variety of archaeological materials and analytical methods.

ANT 4520C   **Forensic Anthropology (4)**
This course is designed to familiarize students with forensic anthropology through lectures and lab work. Students will learn human skeletal biology for personal identification and cause of death. This course is restricted to majors and is not repeatable.

APK 6104   **Developmental Exercise Physiology (3)**
The course covers normal growth and physiological development in children and adolescents with an emphasis on the changes in physiological adaptations with exercise as a result of maturation.

APK 6109   **Cardiorespiratory Aspects of Exercise Physiology (3)**
Covers selected topics regarding cardiorespiratory aspects of exercise physiology. Some of the topics to be covered include: gas exchange and transport during exercise; aerobic metabolism, and acute & chronic adaptations to exercise training.

APK 6111   **Advanced Exercise Physiology (3**)
The course will address advanced principles of basic and applied exercise physiology. Cardiovascular and respiratory physiology and physiological responses of these systems to acute and chronic exercise will be discussed, as well as thermal stress.

APK 6116   **Neuromuscular Aspects of Exercise Physiology (3)**
Covers selected topics regarding neuromuscular aspects of exercise physiology. Some of the topics to be covered include: neuromuscular anatomy and physiology, theory of skeletal muscle contraction, protein synthesis and degradation.

APK 6406   **Psychology of Exercise (3)**
Covers selected topics regarding the psychological aspects of exercise. Topics to be covered include: stress, anxiety, depression, mood, pain, exertion, and body image. Research methodology will be an important consideration throughout.

ARC 5175   **Computer Technology (3)**
Introduction to the application of computer technology in current architectural practice. The exploration of available software, programs, and computer services for word processing, information handling, specification writing, feasibility analysis, cost estimating, economic performance and life cycle cost analysis, project management (network programming and analysis), computer graphics, computer aided design and drafting.

ARC 5216   **The Building Arts (3)**
Introduction to the man-made environment. The study and profession of architecture. The various facets of the process of shaping the built environment as it manifests itself in the different roles and specialization of the experts involved the process, and in the various academic courses that prepare the architect for practice.

ARC 5256   **Design Theory (3)**

Survey of major schools of thought in design theory, methods of design and problem-solving, and design research. The nature of the design activity and its recurring difficulties. The nature and different types of problems. Traditional approaches to problem-solving and design in architecture; recent systematic as well as intuitive approaches to problem-solving based on developments in other fields. Scientific method; the systems approach and design.

ARC 5361   Core Design I (9)
First of two semester Design Fundamentals/Design Graphics sequence focusing on design abstractions and analysis of the factors influencing conceptual design. Emphasis is placed on ordering principles, pattern recognition and utilization, and figure-ground relationships. Development of craftsmanship, drawing as a means to design, and perceptual acuity are stressed.

ARC 5362   Core Design II (9)
Second of a two semester Design Fundamentals/Design Graphics sequence focusing on synthesis of design concepts and application of ordering principles in architectural design. Emphasis is placed on developing an understanding and awareness of architectural elements and compositions. Students examine the work of significant architects and use it as a basis for design exploration. Graphic documentation, diagramming, and model studies are stressed.

ARC 5363   Core Design III (6)
Study of the various phases of the building delivery and design process, and of different approaches to ordering that process in a systematic fashion. The student will use one such systematic approach in the investigation and development of design solutions for a project of moderate scale and complexity. Studies of built form ordering principles, mass/void relationships, scale and proportion, color, texture, contextual relationships, meaning/imagery, and building technology (awareness of structural organization, services networks, construction processes and materials). Aspects of human behavior as design determinants.

ARC 5364   Advanced Design A (6)
Application of orderly design processes to building projects of moderate complexity and scale. Continued investigation of the relationship between human behavior and the environment. Analysis and integration of site relationships into the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for accessibility, fire escape, etc.

ARC 5365   Advanced Design B (6)
Investigation of the interaction between user requirements, environmental determinants, site and urban context conditions, technological factors, and design intentions in the development of design solutions for projects of medium scale and complexity. The analysis, design, and coordination of the various resulting systems, including structural, circulation, service networks, space zoning and use, environmental control systems at the interface between interior and exterior of a building. Representation of these relationships and systems in diagrams and models, and their manifestation in design and construction details.

ARC 5366   Advanced Design C (6)
Design of multi-purpose buildings of medium to large scale and complexity. Issues of community and neighborhood design as they relate to the design of buildings.

Restoration and adaptive re-use of existing historic buildings. Focus on thinking through as well as documenting the complete building system and process.

ARC 5467   Materials and Methods of Construction (3)
Overview of properties of primary construction materials and systems that make up building structures and enclosures. Emphasis on elements and assemblies relative to various climates, technologies, costs, building codes, and craftsmanship.

ARC 5470   Introduction to Technology (3)
Overview of properties of primary construction materials and systems that make up building structures and enclosures. Emphasis on elements and assemblies relative to various climates, technologies, costs, building codes, and craftsmanship.

ARC 5587   Structures I (3)
Review of static and mechanical principles of materials. Analysis and evaluation for appropriate selection of structural systems and elements. Analysis and design of timber and steel structures, based on moment, shear, and deflection. Fundamentals of wind and seismic design as they apply to wood and steel construction. Truss analysis, beam and column behavior.

ARC 5588   Structures II (3)
Introduction to the concepts and theories of structural analysis and design of reinforced concrete systems and elements, including practical application in building construction. Pre stressing, post-tensioning, hybrid assemblies. Fundamentals of wind and seismic design. Formwork, placement, and assembly techniques.

ARC 5689   Environmental Technology (3)
Comprehensive overview of mechanical systems for buildings including: water and waste: fire protection and suppression; heating, cooling and controls; electric power distribution and illumination; communications; transportation systems, and acoustics.

ARC 5731   Architectural History I (3)
Overview of the built environment from prehistory through the Middle- Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context. Varieties of methodological approaches to the analysis of historical architecture. The focus will be on the built environment of Europe and the Mediterranean basin.

ARC 5732   Architectural History II (3)
Overview of the built environment from the Renaissance to the present. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological, and economic context. Study of various methodological approaches to the analysis of historic architecture, and development of student's own approach. Emphasis will be on the built environment of Europe and America.

ARC 5789   Modern Architecture History (3)

Exploration of the philosophic, economic, aesthetic, social, historical and moral imperatives used by modern architects and historians in their attempt to design the appropriate physical environment for a new social order. The course will investigate the writings and works of the proponents of the modern style of architecture and study the "New Architecture" as defined by those who broke tradition and expressed the new era using modern construction materials and techniques.

ARC 5793   History Abroad (3)
Summer study abroad. Location and description varies from year to year.

ARC 5794   Florida Architectural History (3)
An examination of the environmental, sociological, technological, political, economic, cultural, and other factors that influenced the discovery, growth, and urbanization of Florida as manifested by its architecture.

ARC 5920   Architectural Design Studio Abroad (5)
Summer study abroad. Location and description varies from year to year.

ARC 5931   Special Studies in Architecture (1-5)
Variable titles offered on topics of special interest.

ARC 6176   Advanced Computer Technology (3)
Elective course dealing with further development of CAD skills, focusing on three-dimensional modeling. A wide range of software programs is included which explores painting and shading, surface textures, 3D detail studies, perspectives, and oblique representations.

ARC 6287   Professional Practice I (3)
Introduction and overview of professional practice, emphasizing business, organization, management, and marketing. Legal, economic, and ethical aspects of project procurement, design services, and delivery. Contracts, owner-contractor-architect roles and responsibilities.

ARC 6288   Professional Practice II (3)
Continued overview of professional practice, emphasizing legal, economic, and ethical aspects of practice. Project planning, funding, administration, risk management, and performance. Topics include: estimating, financing, life-cycle cost analysis, information resources and management.

ARC 6367   Advanced Design D (6)
Comprehensive studio problems emphasizing the integration of disciplinary and professional skills through the formulation of architectural propositions grounded in critical, speculative, and creative research.

ARC 6372   The Neighborhood (3)
Introduces students to the range of urban and suburban neighborhood typologies. We will discuss the purpose of the neighborhood as a physical and social construct, the history of neighborhoods, and the meaning of the neighborhood in present.

ARC 6373   **Community Design Studio (6)**
(Varies depending on topic) The Community Design Studio is a six credit hour physical design lab course. Its focus is on design at the scale of urbanism – the metropolitan region, the city, the district, the block, the street, and the building complex.

ARC 6397   **Introduction to Urban Design Theory, Methods, & Processes (3)**
Introduction to the concepts, methods, and manifestations of urban design and city-building. Focus on both traditional city and modern city conditions. Student will gain a basic understanding of the design structure, order, function and character of cities and towns and assess various qualitative aspects of these conditions. Relationships between processes of architecture, landscape architecture, site planning, preservation and other relevant acts of city-building will be considered as referential points-of view in assessing certain complexities of urban morphology.

ARC 6398   **Introduction to Community and Urban Design (3)**
Introduce community and urban design as an academic discipline and professional practice that incorporates architecture, planning, landscape architecture, real estate development, and engineering. Major topics include urban form, function, and perception.

ARC 6471   **Advanced Topics in Materials and Methods (3)**
Analysis and design of advanced construction assemblies. Specific focus on application and integration of multiple systems and components. Research in new materials and methods. Documentation and model and analysis.

ARC 6481   **Design Development (3)**
The summary course of the building technology sequence in which construction, structural and environmental technologies are integrated within an architectural design project. Emphasis is placed on poetic and technical aspects of building systems.

ARC 6692   **Advanced Topics in Environmental Technology (3)**
Analysis and preliminary design of advanced environmental control systems; specific focus on architectural applications; integration with structural and construction systems. Research of special aspects of ET systems, computer simulation and analysis techniques.

ARC 6930   **Special Topics in Urban and Community Design (1-6)**
Special topics related to urban and community design and planning issues.

ARC 6936   **Research Methods in Architecture (2)**
A seminar course with the primary purpose of providing tools to conduct the independent research necessary for the two-semester, independent Master's Thesis requirement.

ARC 6971   **Master's Thesis (5)**

This represents the most significant project and provides for a demonstration of the ability to synthesize learned skills into a convincing independent work of professional quality. 10 credit hours of ARC 6971 is required. See also the USF Graduate Catalog.

ARC 6974   **Master's Project Planning (2)**
The Master's Project (ARC 6971) will call for the student's independent selection, organization, programming and design of a complex project. This course aims at preparing students for these tasks by exploring potential topics for master's projects and theses, introducing the concepts of architectural facility programming, methods of gathering, organization, analysis and evaluation of information needed for the project, and by studying the process of writing proposals for the master's project that clearly communicate the problem or task, goals and objectives, the proposed approach and procedure, the expected outcome, as well as the work plan and schedule for such a project and the time and resources required. At the end of the course, students will have prepared an acceptable master's project proposal which will allow them to proceed with the master's project during the following term.

ARC 6976   **Terminal Master's Project (5)**
Students will independently investigate an architectural topic of personal interest. The requirements include the submission of a research and design document and the preparation of juried presentation of the work.

ARC 2112L   **Architectural Freehand Drawing Methods (4)**
This course provides an introduction to basic freehand drawing with an emphasis on observational drawing, mapping, gesture, and drawing as a means of orientation. The student is introduced to a wide range of drawing methods, media and concepts.

ARC 2131C   **Introduction to Architectural Design and Graphics (4)**
An introduction to fundamental "critical thinking" and graphic communication skills in architecture.

ARC 2135C   **Introduction to Architectural Design and Graphics II (4)**
This course explores fundamental issues of space-making and perception of space, scale and habitation. In addition, this course builds on the skills and knowledge developed in the first introductory course through analysis and interpretation of specific works.

ARH 5813   **Methods of Art History (4)**
This course introduces students to various methods which art historians have used to analyze the form and content of individual works of art, and to various modes of historical explanation.

ARH 5836   **Collection and Exhibition Management (3)**
This class will introduce students to the basic principles of collections care and management and to the intellectual and practical tasks of preparing an exhibition. Sessions will include art handling, registration and condition reporting, preparing works of art for transit, environmental standards for collections storage and exhibition, and the professional responsibilities of the curator.

ARH 6055 **Art History (1-4)**
A contract for research in any elective area of Art History.

ARH 6798 **Seminar in Art History (4)**
Var. Specialized topics in art history.

ARH 6891 **Paris Art History (4)**
This course will explore issues central to the history and criticism of art through the rich and visual culture that Paris offers. The goal of this course is to provide students with an experience of the cultural life of the city through an exploration of its major art collections, monuments, art collections and historical sites. Thematically-organized topic will include: art and national identity, patronage, orientalism, the birth of the avant-garde and the role of the museum in the evolution of modernism and modern art.

ARH 4475C **Contemporary Issues in Art (3)**
A study of the principles and techniques of educational measurement as applied to the teaching of physical education; study of the functions and techniques of measurement in the evaluation of student progress toward the objectives of physical education.

ARH 4721C **History of Printmaking (3)**
The history of Western printmaking from the Middle Ages to contemporary times, with an emphasis on art making technology and research, cultural perspectives and theoretical/critical analytical capabilities. The course is open to majors and non-majors. It is not repeatable for credit.

ART 5910 **Research (1-4)**

ART 6688 **Electronic Media (4)**
Advanced projects in the exploration of the issues and practices involved in the creation of experimental computer art at the graduate level. Emphasis on individual creative expression. May be repeated.

ART 6811 **Paris Art Studio (3)**
This course will explore the experience of modern life in the city as a source for art making. Projects will encourage students to encounter the dense and varied space and time of Paris toward a better understanding of the part that this city has played in the shaping of modern and postmodern sensibilities. We will draw upon a range of avant-garde strategies that have imagined and conceptualized Paris by movement through city spaces and close observation of the ordinary and extraordinary aspects of everyday life.

ART 6816 **MFA Professional Practices (3)**
MFA students will analyze their experiences and explore options available to visual artists after completion of their degree. Restricted to majors; not repeatable for credit.

ART 6895 **Graduate Seminar I (3)**
This seminar will expand students understanding of the complexities of contemporary art. Students will develop an awareness of current critical theories through readings, writings and discussions. Restricted to majors and is non-repeatable.

ART 6896   **Graduate Seminar II (3)**
This course facilitates a critical awareness of the self-reflexive nature of artistic vision within a larger cultural context including the relevance of one's work in relationship to contemporary art theory. Restricted to majors and is non-repeatable.

ART 6897   **Critical Writing Seminar (3)**
Significant texts of the 20th Century and contemporary criticism introduce multiple lenses through which art is encountered, inviting self-identification within a broad range of engaged positions. This forms the core of the MFA Research Project Proposal.

ART 6907   **Independent Study (1-19)**
Independent study in which student must have a contract with an instructor.

ART 6911   **Directed Research (1-19)**
Directed Research in which student must have a contract with an instructor

ART 6937   **Graduate Instructions Methods (1-4)**
Special course to be used primarily for the training of graduate teaching assistants.

ART 6940   **Selected Topics in Art (1-4)**
Variable credit depending upon the scope and magnitude of the work agreed to by the student and the responsible member of the faculty.

ART 6956   **MFA Research Project (2-19)**
Development/Finalization of MFA Research Project, including the planning and realization of an exhibition and a written document articulating ideas, processes, and sources related to the project. Usually taken during last year.

ART 6971   **Thesis: Master's (2-19)**

ART 2201C   **Concepts and Practices I (3)**
Introduce students to diverse art studio practices and concepts where topics include forms of communication, sourcing inspiration, and critical theory. Studio projects are augmented by lecture, discussion, reading, writing and critical analysis.

ART 2203C   **Concepts and Practices II (3)**
Continuation of ART 2201 building on diverse art studio practice and concepts including crafting an artistic self, measuring success, and examining the artists' role. Art projects are augmented by lecture, discussion, reading, writing and critiques.

ART 2301C   **Beginning Drawing (3)**
Projects exploring the methods, media, and concepts of drawing.

ART 2400C   **Beginning Printmaking (3)**

This course is designed as an introduction to the medium of printmaking. It concentrates on the technical production of various print media including: intaglio, relief, monoprint and serigraphy (screen printing).

ART 2500C   **Beginning Painting (3)**
Projects in painting with emphasis on the exploration of methods and media and the development of individual concepts.

ART 2701C   **Beginning Sculpture (3)**
Projects in sculpture with emphasis on contemporary theory and issues, the development of individual concepts and the exploration of materials, tools and processes.

ART 2750C   **Beginning Ceramics (3)**
An introduction to the use of ceramic materials as a means of self-expression and critical exploration.

ART 3310C   **Intermediate Drawing (3)**
An extension of the skills and concepts introduced in Beginning Drawing with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

ART 3380C   **Selected Topics in Drawing (3)**
Selected Topics in Drawing is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3403C   **Intermediate Printmaking (3)**
This course concentrates on developing intermediate skills in printmaking with particular emphasis on conceptual topics. The course is intended for majors. Repeatable up to 15 hours.

ART 3461C   **Selected Topics in Printmaking (3)**
Selected Topics in Printmaking is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3513C   **Selected Topics in Painting (3)**
Selected Topics in Painting is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3530C   **Intermediate Painting (3)**
An extension of the skills and concepts introduced in Beginning Painting with an emphasis on individual experimentation and the development of advanced critical and technical skills in the discipline. Repeatable up to 15 hours.

ART 3610C   **Digital Modeling (3)**
Exploration of 3D digital modeling techniques for the creative arts. Provides study in the history, theory, and practices of 3D digital modeling. Students' model, texture, and light models in a 3D environment.

ART 3612C **Beginning Video, Animation and Digital Arts (3)**
An introductory exploration of the use of video, animation, and digital art as media for making contemporary art. Emphasis is on all levels of production, concept development, and the history and theory of media, moving image, sound, and animation.

ART 3613C **Live Action Filmmaking (3)**
Students develop a comprehensive understanding of Independent Cinema by producing short film projects. Topics include scriptwriting, professional production tools and practices, and exhibition. Non-repeatable. For majors and non-majors with prerequisite.

ART 3616C **Computer Animation (3)**
Hands-on exploration of issues, principles, and practices involved in the creation of 2D animation. Traditional methods are combined with animation and imaging software. Focus is on individual creative growth.

ART 3709C **Intermediate Sculpture (3)**
This course expands upon the principles and processes introduced in Beginning Sculpture, developing a higher level of technical competence and critical sophistication. Repeatable up to 15 hours.

ART 3712C **Multiples, Molds, and Bronze casting (3)**
Continued studies and projects in sculpture with an emphasis on the nature of multiples explored through advanced mold making and bronze casting. This course may not be repeated for credit. The conceptual implications of the multiple will be taught through reading, lecture, discussion and demonstration.

ART 3761C **Intermediate Ceramics (3)**
Intermediate problems in ceramics and emphasis on the exploration of methods and media and the development of individual concepts. Repeatable up to 15 hours.

ART 3781C **Selected Topics in Ceramics (3)**
Selected Topics in Ceramics is an intermediate course providing focused exploration of content specific to the discipline. It furthers the development of skills and critical discourse in the field. Majors only. Repeatable up to 15 hours.

ART 3843C **Site, Installation, and Performance (3)**
Continued studies and projects in sculpture with an emphasis on site-specific sculpture, installation and performance. A critical and cultural awareness of contemporary issues and media in sculpture will be developed through studio projects assigned readings, discussions, critiques and demonstrations. The course may not be repeated for credit.

ART 4320C **Advanced Drawing (3)**
Continued projects in drawing.

ART 4402C **Advance Printmaking (3)**

This course is designed as an advanced printmaking studio and emphasizes content and meaning in visual imagery. The student is encouraged to work in a specific printmaking medium (intaglio, relief, lithography or screen printing) and develop a cohesive series of images.

ART 4520C   **Advanced Painting (3)**
Continued projects in painting.

ART 4614C   **Advanced Video, Animation and Digital Arts (3)**
This upper level course builds upon the concepts students encountered in the introductory level graphic design courses and focuses upon web content creation and animation techniques.

ART 4634C   **Visual Design for the Internet (3)**
This upper level course builds upon the concepts students encountered in the introductory level graphic design courses and focuses upon web content creation and animation techniques.

ART 4710C   **Advanced Sculpture (3)**
Continued problems in sculpture. Repeatable.

ART 4782C   **Advanced Ceramics (3)**
Continued problems in ceramics.

ART 4970C   **Senior Thesis (4)**
The creation of a coherent body of advanced level artwork that is supported by a written document describing processes working procedures, research, context and content of the artwork itself.

ART 5390C   **Drawing (4)**
Advanced problems in various drawing techniques. Emphasis on individual creative expression. Repeatable.

ART 5448C   **Intaglio (4)**
Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media.

ART 5580C   **Painting (4)**
Research in Painting.

ART 5740C   **Sculpture (4)**
Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. Repeatable.

ART 5790C   **Ceramics (4)**
Advanced problems in the various ceramic techniques, including throwing and glaze calculation. Repeatable.

ART 6391C **Drawing (4)**
Advanced graduate research in drawing.

ART 6449C **Intaglio (4)**
Advanced graduate research in intaglio process.

ART 6581C **Painting (4)**
Advanced graduate research in painting.

ART 6791C **Ceramics (4)**
Advanced graduate research in ceramics.

ART 6792C **Sculpture (4)**
Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. Repeatable.

ASL 2140C **Basic American Sign Language (4)**
Introduction to American Sign Language (ASL) as used in the deaf community. General discussion of ASL structure and introduction to various manual communication systems and philosophies. Emphasis on building a basic vocabulary. One hour of laboratory course work is included. Open to all majors.

ASL 2150C **Intermediate American Sign Language (4)**
A continuation of the basic course which expands the student's signing skills and introduces American Sign Language (ASL) idioms. Provides a greater opportunity for skill development in ASL structure and idiomatic usage. One hour of laboratory course work is included.

ASL 4161C **Advanced American Sign Language (3)**
A continuation of the study of American Sign Language (ASL) at the advanced skill level. Added emphasis on idioms, body language, and facial expression as an integral part of ASL. An hour of laboratory course work is included.

ASL 4201C **American Sign Language 4 (3)**
This course is a continuation of the study of American Sign Language (ASL) at the highly advanced level. It provides added emphasis on skill development of the language, including storytelling and poetry. One-hour laboratory course work is included.

ASL 4301C **Structure of Sign Language (3)**
This course is a basic introduction of semiotic and linguistic consideration of American Sign Language (ASL). It includes aspects of phonology, morphology, syntax, semantics, and discourse of ASL. A one-hour laboratory is incorporated into the coursework.

ATR 2010C **Care and Prevention of Physical Injuries (3)**

Principles and techniques of conditioning athletes for competition; prevention and care of injuries in physical education and athletic activities.

BCH 5045   Biochemistry Core Course (3)
A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates.

BCH 5105   Biochemistry Laboratory Rotations (1-3)
A course in which first year graduate students rotate through selected professor's laboratories to learn techniques, become familiar with ongoing research in the Department and facilitate the selection of a mentor.

BCH 3023L   Basic Biochemistry Laboratory (2)
Practical work in determination and characterization of important biomolecules. Lec.-lab.

BOT 3015C   General Botany (4)
A general survey of the plant kingdom. Introduction to plant anatomy, morphology, physiology, genetics, reproduction, classification, evolution and ecology. This course is a combined lecture and lab class. A lab fee will be assessed.

BOT 3152C   Field Botany (3)
A field course emphasizing Identification and classification of native and naturalized flowering plants of Florida including historical, climatic, and floristic aspects of plant communities. Fieldwork required. Lecture and Laboratory.

BOT 3373C   Vascular Plants: Form and Function (4)
Introduction to morphology, physiology and evolution of vascular plants, integrating form and function to understand diversity. Lecture and Laboratory.

BOT 4184C   Biology of Coastal Plants (4)
A field course in coastal plants with emphasis on ecology and functional morphology. Fieldwork will stress the ecological aspects of plants in the coastal environment of Florida. Fieldwork required. Lecture and Lab.

BOT 4404C   Psychology (4)
An introduction to freshwater and marine algae, their classification, distribution and ecology. Lecture and laboratory. This course is a combined lecture and lab class. A lab fee will be assessed.

BOT 4434C   Mycology (3)
A survey of the fungi with emphasis on their taxonomy, morphology, physiology and economic importance. Lec.-lab.

BOT 4714C   Plant Taxonomy (4)

An introduction to plant taxonomy, including the principles and methods of systematic botany and classification. Lab and field exercises provided experience in plant identification. Emphasis on native and introduced plants of peninsular Florida.

BOT 4810C   Economic Botany (3)
Study of the uses of plants by man for food, chemicals, fibers, and medicines.

BSC 5425   Genetic Engineering and recombinant DNA Technology (3)
This lecture-based course will use a problem solving approach, provide fundamental knowledge of scientific concepts and principles that form the basis of experimental methodologies in genetic engineering and recombinant DNA technology. For majors/non-majors.

BSC 6457   Modern Basic Tools of Research (2)
An introduction to modern core research facilities and methodologies used in cancer research. Lec., Lab., Dem. Department Approval Required.

BSC 6905   Independent Study (1-19)
Independent study in which student must have a contract with an instructor.

BSC 6910   Directed Research (1-19)

BSC 6930   Lectures in Contemporary Biology (1)
This Biology lecture series includes a diversity of contemporary topics including: molecular regulatory mechanics, evolutionary genetics, organismal physiology and community ecology.

BSC 6932   Selected Topics in Biology (1-4)

BSC 6935   Graduate Seminar in Biology (1)

BSC 6936   Scientific Grant Writing (3)
Provides in-depth study of a single aspect of cancer biology. Topics offered vary by semester.

BSC 6945   Graduate Instruction Methods (1-3)
Special course to be used primarily for the training of teaching assistants.

BSC 6971   Thesis: Master's (2-19)
Thesis: Master's

BSC 2010L   Cellular Processes Laboratory (1)
Laboratory portion of Biology I Cellular Processes relating to cellular and subcellular structure and function. Mitosis, meiosis, and Mendelian genetics will be stressed.

BSC 2011L   Biodiversity Laboratory (1)

Laboratory portion of Biology II Diversity relating to organismal structure and function. Microscopy, as well as, plant and animal development will be stressed.

BSC 2093C   **Human Anatomy and Physiology I (4)**
Basic biochemistry, cell structure and function, tissues, anatomical terminology, anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems. Lecture and Laboratory.

BSC 2094C   **Human Anatomy and Physiology II (4)**
Anatomy and physiology of the autonomic nervous, endocrine, circulatory, lymphatic, immune, respiratory, digestive, excretory, and reproductive systems. Lecture and Laboratory.

BSC 3402L   **Experimental Biology Lab (2)**
Introduction to the philosophy & methodology of scientific practice by classroom discussion and laboratory as well as field experience. Students learn: philosophical & practical difference between physical/historical science, hypothesis generation/testing, etc.

BSC 4313C   **Advanced Marine Biology (4)**
A detailed analysis of marine environment in the Tampa Bay or surrounding area. Field and laboratory work will provide direct experience with the system.

BSC 4444L   **Genomics Laboratory (1)**
Laboratory exercises linked to the Genomics lecture course.

BUL 5332   **Law and the Accountant (3)**
A comprehensive study of commercial law as it affects the practice of accounting.

BUL 5842   **Risk Management and Legal Compliance (3)**
This course is designed for non-accounting students who need to understand, monitor and control risks. The content of this course spans corporate governance, risk strategy and legal/regulatory compliance including analysis of significant laws/regulations.

BUL 6652   **Regulatory & Reporting Environments (3)**
Discusses various ways in which companies are regulated, including public, private and self-regulatory matters. Voluntary and involuntary regulation is discussed, as well as ethical issues. Review of securities and other reporting requirements are analyzed. Private regulation is considered, such as encountered in contractual relationships, professional organizations and industry groups is studied. Management issues due to securities and exchange laws (compliance, reporting & other communications), corporate governance matters (legal aspects, stakeholders, independence, transparency), and other legal matters (agency, workplace equity, governmental regulation) are covered.

Other economic, social, cultural, environmental and political impacts are considered as affecting the contemporary business organization.

CCJ 6118   **Introduction to Criminology Theory (4)**
An introduction to, and comparison of, major historical and contemporary theories that seek to explain criminal behavior or the existence of crime in society.

CCJ 6406   **Theory, Practice, and Research in Law Enforcement (3)**
This issue-oriented course explores the relationships among theory, practice, and research as these are reflected in the problems and challenges that confront law enforcement.

CCJ 6459   **Grant Writing for Criminal Justice Administration (3)**
Its purpose is to provide MACJA students with the skills to write a grant proposal that could be submitted to a research agency such as the National Institute of Justice. However, the skills learned will be transferable to other public service agencies.

CCJ 6485   **Criminal Justice and Public Policy (3)**
In this course, students will learn about the structure, function, theory and key issues of the criminal justice system. Students will also acquire the skills necessary to analyze public policy in criminal justice.

CCJ 6624   **Seminar in Violence (3)**
This course utilizes psychological, sociological, and biological perspectives to help students to understand different types of violent offenders and various intervention strategies.

CCJ 6638   **Seminar in Nature and Causes of Crime (3)**
Examination of some of the issues green criminologists study and investigate why it is important to study these issues from a criminological perspective. Topics include crime against animals, forests, and water.

CCJ 6654   **Seminar in Drugs and Crime (3)**
The objective of this course is to provide the student a comprehensive understanding of the dynamics of drug use in American society.

CCJ 6669   **Seminar in Social Inequality and Crime (3)**
In this course, students will examine one of the most persistent and divisive issues in criminal justice—racial, and to a lesser extent ethnic, disproportionality in the U.S. criminal justice system (CJS).

CCJ 6705   **Research Methods in Criminology (3-4)**
Introduction to the basic methods of criminological research; overviews philosophy of science, research ethics, research design issues such as sampling and measurement, and methods of data collection, including survey, experimental, and evaluation research.

CCJ 6706   **Quantitative Analysis in Criminology I (4)**

Introduction to data management utilizing computer statistical packages and elementary statistical techniques used in criminological research: descriptive and inferential statistics, group comparisons, measures of association, linear regression.

CCJ 6707   Quantitative Analysis in Criminology II (3)
Intermediate-level data analysis and statistical techniques applied to problems in criminology. Emphasis on multivariate techniques, including multiple regression, path analysis, and nonlinear models.

CCJ 6708   Quantitative Analysis in Criminology III (3)
This course familiarizes students with advanced multivariate linear and nonlinear statistical procedures appropriate for analyzing criminological data.

CCJ 6905   Directed Independent Study (1-12)
Independent study in which student must have contract with instructor.

CCJ 6910   Direct Research (1-19)

CCJ 6930   Current Issues in Corrections (3)
This course is designed to review and analyze the major issues and dilemmas that confront corrections today, including overcrowding, inmate rights, privatization, control of gangs, control of inmates, and the availability or programs and services. Attention will also focus on the strategies and/or controversies associated with these issues.

CCJ 6931   Seminar in Criminological Theory (3)
This course is designed to provide an in-depth analysis of specific theoretical issues in criminology.

CCJ 6932   Issues in Criminal Justice Administration (3)
This course will focus on some of the most significant issues facing today's criminal justice administrator.

CCJ 6935   Topics in Criminology and Criminal Justice (3)
Analysis and discussion of topics of major concern in criminology and criminal justice that are not covered in regular courses.

CCJ 6936   Current Issues in Law Enforcement (3)
This course will focus on some of the most significant issues facing law enforcement agencies today. Some topics included will be: police use of deadly force; review of police conduct; police unionization; police corruption; media relations; civil liability; and community/problem-oriented policing.

CCJ 6937   Pro Seminar in Criminology (1)

Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.

CCJ 6971   Thesis: Master's (2-19)

CGS 6210   Computer Hardware Systems for Education (3)
This course focuses on the development of an understanding of microcomputer hardware that allows individuals to teach as well as make decisions concerning purchase, repair, and appropriate use. Topics include: basic concepts of digital electronics, the operation of a digital computer system, major categories of computer peripherals, historical development of electronic computers, and selection and maintenance of computers in an educational setting.

CHM 5225   Intermediate Organic Chemistry I (3)
This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.

CHM 5226   Intermediate Organic Chemistry II (3)
An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Semester II.

CHM 5452   Polymer Chemistry (3)
Fundamentals of polymer synthesis, structure, properties, and characterization.

CHM 5621   Principles of Inorganic Chemistry (3)
Chemical forces, reactivity, periodicity, and literature in organic chemistry; basic core course.

CHM 5931   Selected Topics in Chemistry (1-3)
The following courses are representative of those that are taught under this title: Natural Products, Stereochemistry, Reactive Intermediates, Photochemistry, Instrumental Electronics, Advanced Lab Techniques, Heterocyclic Chemistry, etc.

CHM 6036   Chemical Biology (3)
Current research directions in chemical biology. Topics include chemical and biosynthesis of peptides, proteins and nucleic acids, genetic and protein engineering, combinatorial chemistry, targeted probes and imaging, biorthogonal reactions, etc.

CHM 6138   Mass Spectrometry (3)
This course covers the topic of mass spectrometry from physical principles and theory to implementation and method development.

CHM 6150   Advanced Analytical Chemistry (3)
A study of complete analytical process, including sample handling, separations, the analysis step, and statistical interpretation of data. Emphasis placed on separations and statistics. Lec.

CHM 3235　　**Spectroscopic Analysis of Organic Compounds (3)**
This course provides the student with a thorough understanding of the theory and use of spectroscopic techniques (MS, IR, UV-vis, and NMR,) and their use in identification of organic compounds from the spectroscopic data from techniques discussed.

CHM 6250　　**Advanced Organic Chemistry I: Synthesis (3)**
Detailed consideration of modern synthetic methods. Lec.

CHM 6263　　**Advanced Organic Chemistry II: Physical-Organic (3)**
Organic reaction mechanisms emphasizing the interpretation of experimental data. Lec.

CHM 6279　　**Introduction to Drugs Discovery (3)**
Explores the entire drug discovery process, from initial target identification and hit generation through lead optimization and clinical trials to FDA approval. Case studies will be used to illustrate the process.

CHM 6440　　**Reaction Kinetics (3)**
The course covers macro- and microscopic reaction kinetics; rate laws of model reactions; enzyme catalysis; reactions in solutions, gases or on solid surfaces; collision and transition state theories; potential energy surfaces; and unimolecular reactions.

CHM 6480　　**Advanced Quantum Mechanics I (3)**
Basic theoretical concepts and mathematical framework; applications to simple systems.

CHM 6810　　**Methods of Instruction in Higher Ed Chemistry (3)**
This course presents pedagogical approaches associated with evidence-based effective instruction for postsecondary chemistry education.

CHM 6811　　**Classroom Assessment Practices in Chemistry (3)**
This course addresses the theory and practice of assessments in chemistry. The course will focus on the design, implementation, and evaluation of classroom assessments and the rationale for considering alternative assessments.

CHM 6907　　**Independent Study (1-19)**
Independent study in which students must have a contract with an instructor.

CHM 6935　　**Graduate Seminars in Chemistry (1)**
Required every semester (when offered) for all students enrolled in Chemistry graduate program. Requires participation in and attendance at the weekly departmental seminar.

CHM 6936　　**Chemistry Colloquium (1)**

Frequent (usually weekly) small-group analysis of current developments.

CHM 6937   Discipline- Based Education Research Colloquium (3)
This course involves two types of presentations that are typically expected of graduate students: a research talk and a literature review.

CHM 6938   Selected Topics in Chemistry (1-3)
Representative titles taught include: Symmetry and Group Theory, Photochemical Kinetics, Quantum Mechanical Calculations, Advanced Chemical Thermodynamics, Reaction Mechanisms, Advanced Instrumentation, Separations and Characterizations, Spectroscopy, etc.

CHM 6945   Investigating Chemical Education Research in the United States (3)
Introduction to the field of Chemical Education Research including the types and kinds of research conducted, primary publication venues, seminal and recent research contributions.

CHM 6946   Graduate Instruction Methods (1-4)
Special course for the training of teaching assistants.

CHM 6971   Thesis: Master's (2-19)

CHM 6973   Directed Research (1-19)

CHM 6978   Advanced Research in Chemistry (3)
This is a required core course for all of our graduate students as a means for them to gain familiarity in the Chemistry department's graduate program and to develop competency in presentations, writing, and instructional methods.

CHM 2045L   General Chemistry I Laboratory (1)
Laboratory portion of General Chemistry I. Introduction to laboratory techniques; study of properties of elements and compounds; synthesis and analysis of natural and commercial materials.

CHM 2046L   General Chemistry II Laboratory (1)
Laboratory portion of General Chemistry II. Continuation of chemistry laboratory.

CHM 2210L   Organic Chemistry Laboratory I (2)
Laboratory portion of Organic Chemistry I. Introduction of organic laboratory principles and techniques. Lec.-lab.

CHM 2211L   **Organic Chemistry Laboratory II (2)**
Continuation of organic chemistry laboratory.

CHM 2414C   **Science of Cooking (3)**
An active, experiential-learning environment of interdisciplinary explorations of science as a process, information, and techniques underlying contextually interesting topics pertaining to delicious substances.

CHM 3120C   **Elementary Analytical Chemistry (4)**
Fundamentals of gravimetric, volumetric, spectrophotometric analysis. Lec.-Lab.

CHM 3415C   **Physical Chemistry Methods (4)**
This class will familiarize chemistry majors with the analytical and numerical math of physical chemistry and the use of specialized software for symbolic and numerical math and visualization.

CHM 3610L   **Intermediate Inorganic Chemistry Laboratory (1)**
Illustrative laboratory work concerning the fundamental principles of inorganic chemistry including atomic structure, bonding, transition metal chemistry, structural consequences and spectroscopic methods.

CHM 4130C   **Methods of Instrument Analysis (4)**
Theory and applications of instrumental methods in chemical research, chemical synthesis and analysis; electrochemical and calorimetric techniques, separation methods, spectroscopy, statistical analysis of data, computer data handling, and individual projects. Lec.-lab.

CHM 4131C   **Methods of Chemical Investigation II (4)**
Continuation of CHM 4130C. Lec.-lab.

CHM 4410L   **Physical Chemistry Laboratory (1)**
A physical chemistry laboratory with emphasis on modern techniques and instruments. Lab.

CHS 2440L   **General Chemistry for Engineers Lab (1)**
Laboratory portion of General Chemistry for Engineers. Introduction to laboratory techniques, study of properties of elements, synthesis and analysis of natural and commercial materials.

CHS 4301L   **Clinical Laboratory (2)**
Laboratory experience in some of the most important clinical determinations. Lec.-Lab.

CJC 6020   **Theory, Practice, and Research in Corrections (3)**

Examination of the interrelationships between theory and practice in corrections, as these are affected by empirical research and systematic program evaluation.

CJE 6025   **Policy Organization, Behavior, and Administration (3)**
Graduate seminar focusing on the topics of police behavior, organization, and administration.

CJE 6029   **Advanced Seminar in Law Enforcement (3)**
Students integrate theory and empirical data to critically analyze issues in law enforcement practice and policy.

CJE 6268   **Minorities and Crime (3)**
This course provides an overview and discussion of issues surrounding the relationship between minority groups and the criminal justice system. It focuses on overt and institutional racism and discrimination and its relationship to the justice system.

CJE 6624   **Introduction to Digital Evidence (3)**
This course is designed to facilitate development of the basic knowledge and skills necessary to recognize, identify, collect, and preserve digital evidence in any kind of criminal investigation. Focus is upon a wide array of digital technologies.

CJE 6625   **Network Forensic Criminal Investigations (3)**
As applied to criminal investigations, this course focuses on forensic security issues involving access to data stored on networked computer systems and the transmission of data between systems.

CJE 6626   **Digital Forensic Criminal Investigations (3)**
This course will introduce students to digital forensics as practiced by local, state, and federal law enforcement. Students will gain hands on experience with several digital forensic tools in this laboratory-based course.

CJE 6627   **Digital Evidence Recognition and Collection (3)**
Instructs participants in the basics of recognizing potential sources of electronic evidence, preparing them to respond to an electronic crime scene, and to collect items of evidentiary value to be used in court proceedings.

CJE 6688   **Cybercrime and Criminal Justice (3)**
Introduction to the topic of criminality in online environments. Topics include hacking, online identity theft, fraud, trade in illicit substances/items, sexual crimes online, and responses to cyber criminality.

CJE 6716   **Criminal Justice Graduate Capstone Seminar (3)**
In this capstone seminar students will be required to demonstrate an in-depth knowledge of a specific problem within their agency as well as a proposed solution(s).

CJL 6421   **Law, Crime and Justice (4)**

An exposition of historical and contemporary legal principles, procedures, and issues as reflected in Constitutional provision, statutes, and case law.

CLP 6166 **Psychopathology (3)**
Exploration of current approaches to the understanding of pathological behavior and implications for theories of personality. A survey of treatment methods is included.

CLP 6318 **Prevention Science & Health Psychology (3)**
Introduction to current theories, research, and practice in prevention science and health behavior research. Evaluation of the contributions of psychology & prevention science to a wide range of evidence-based health promotion & prevention interventions.

CLP 3438 **Psychological Assessment: Theory and Research (1-4)**
Courses cover theory, research, and applications of psychological assessment in areas, such as interviewing, intellectual and cognitive functioning, neuropsycho-diagnostics, and personality testing.

CLP 6443 **Assessment of Infant-Family Mental Health (3)**
Introduction to mental health assessment with children birth to three and their coparents, with an emphasis on observational methods, relationship assessment, caregiver interviewing, standardized measures, case formulation and family-centered feedback.

CLP 6462 **Working with Families of Infants and Toddlers (3)**
Addresses principles and emerging promising practices for intervening to promote coparenting of children aged 0-3 in nuclear, fragile, extended and kinship families; high conflict post-divorce families; military families; and other diverse family systems.

CLP 6477 **Infant Family Mental Health (3)**
The class will address the theoretical bases of infant mental health infant development and infant caregiver relationships with an emphasis on coparenting and family relationship dynamics that support infant and toddler development in cultural context.

CLP 6478 **Develop Disabilities/Disorders of Childhood and Adolescence (3)**
This graduate level course is designed to provide students with a foundation in concepts and research in the scientific study of developmental disabilities and other disorders of childhood and adolescence.

CLP 6623 **Professional and Ethnical Issues in Psychology (3)**
This graduate course is designed to expose students to the professional, ethical, and legal problems that face psychologists and through the course of their practice as clinicians, researchers, and educators.

CLP 6937 **Topics in Clinical Psychology (1-3)**
Courses on topics, such as humanistic psychology, community psychology, and clinical neuropsychology.

COM 5930 **Topics in Communication Studies (3)**
Topical issues in communication.

COM 6001   **Theories and Histories of Communication (3)**
An introduction to the history and theory of communication as a discipline: its relationship to the arts and sciences, and a survey of the historical development of the field, emphasizing current issues in theory, research, and practice.

COM 6017   **Gender in the Workplace (3)**
This course focuses on the workplace as a site of gendered communication practices. A variety of work settings will be analyzed in terms of how they construct gender identities, reinforce public-private distinctions and maintain traditional career models.

COM 6025   **Health Communication (3)**
Application of communication theory and research to the health context including provider-patient communication, health information campaigns, and health beliefs and behavior. Special attention to the value issues in health communication.

COM 6045   **Communicating Leadership (3)**
Effective leadership today focuses less on control and more on the strategic use of communication to build relationships and guide behavior. This course examines the various ways leaders can communicate more effectively in contemporary organizations.

COM 6121   **Organizational Communication (3)**
A study of communication theory and behavior within organizational settings: role of communication, communication climates, communication networks, leadership.

COM 6248   **Historical Perspectives on Communication (3)**
Explores prominent figures and theoretical movements in area of Communication (Interpersonal or Organizational Communication, Cultural Studies, Rhetorical Studies, or Performance Studies). [Repeatable for credit as topics vary.]

COM 6306   **Action Research (3)**
Action research is rooted in engagement, involving collaboration with community or organizational partners who will be affected by the research. Through hands-on projects we learn principles of action research and explore communication and ethical issues.

COM 6313   **Interpreting Communication Research (3)**
This course is designed to give students tools to help them interpret the mainstream research literature in communication and to judge research on a quality continuum. No assumptions are made about student understanding of quantitative research methods.

COM 3645   **Contemporary Cultural Studies (3)**
Examines theoretical issues and interpretive approaches for exploring questions of knowledge, identity, experience, meaning and value in modern culture through the study of communication.

COM 6400   **Communication Theory (3)**

An examination of communication theory through selected reading in the work of major theorists past and present.

COM 6418   **Communication and Systems Practice (3)**
Systems theories offer possibilities for understanding interconnections and emergence, identities and environments, and stability and change, with communication processes being central. We explore social systems principles by linking theory and praxis.

COM 6605   **Media Studies (3)**
Systems theories offer possibilities for understanding interconnections and emergence, identities and environments, and stability and change, with communication processes being central. We explore social systems principles by linking theory and praxis.

COM 6724   **Communication Training in Organizations (3)**
Provides holistic understanding of how communication training is developed and conducted in organizations. Students learn to assess communication training needs, design/deliver effective communication training programs, and evaluate their effectiveness.

CPO 5934   **Selected Topics in Comparative Politics (3)**
Studies specifics substantive areas in Comparative Politics, such as political economy or the politics of specific countries or regions.

CPO 6077   **Social Movements (3)**
Introduces students to the main theoretical perspectives of social movement scholarship and investigates core social movements in the US and beyond.

CPO 6091   **Seminar in Comparative Politics (3)**
Extensive examination of the major theories and approaches used in the study of Comparative Politics. Seminar format.

CRW 6025   **Special Topics in Creative Writing (3)**
This course will offer coverage of current topics in creative writing based on student demand and instructor interest. Topics offered may include memoir, novel writing, screenwriting, and editing and publishing.

CRW 6130   **Fiction Writing (3)**
A study of the process of fiction writing and the artistic demands associated with its forms, from micro fiction to the novel.

CRW 6164   **The Craft of Fiction (3)**
A study in the forms and technique of fiction writing. Students will examine how novels and stories are constructed, analyze craft (plotting, characterization, point of view) and

the relationship of form and craft, and study the variety of approaches to storytelling (realism, magic realism, minimalism, and metafiction).

CRW 6236   **Nonfiction Writing (3)**
An exploration of the different types of nonfiction writing, such as memoir, travel, nature, Commentary, book review, essay, and biography.

CRW 6331   **Poetry Writing (3)**
A study of the process of poetry writing and the demands associated with its form, both free verse and metrical.

CRW 6352   **The Craft of Poetry (3)**
An intensive examination of established schools of poetic writing: their themes, imagery, and approach to subject matter. Students also will write and submit original poetry for private and group constructive evaluation.

CRW 6726   **Practicum in Literary Editing and Publishing (3)**
Introduction to the publishing industry, including book publishing, literary magazines, editing, agents, book design and packaging, book marketing and publicity, interviewing, and book reviewing. Students assist in publication of a literary magazine.

CST 6920   **Non-Credit Graduate Study (0)**
This course is used for students on educational experiences to maintain continuous enrollment/good standing (i.e, Peace Corps).

CST 6934   **Special Topics in Graduate School: Research Practicum (3)**
Variable titles offered on topics of special interest pertaining to research practices.

CST 6935   **Special Topics in Graduate School: Professional Development (1-3)**
Variable titles offered on topics of special interest pertaining to professional development.

CYP 6109   **Co-parenting and Systems Change for Infant-Family Mental Health (3)**
A review of theories, research, comprehensive change strategies and everyday practices for collaboration with infants, co-parents, families, community members and professionals to transform systems and communities for infant-family mental health.

DAE 4340L   **Dance Pedagogy: Internship (1)**
This course is designed to meet the needs of students interested in teaching at the secondary level (Middle/High School). It provides an internship experience where students have the opportunity to develop their teaching skills in a public school setting.

DEP 6058   **Developmental Psychology (3)**
Basic survey of research and theory in human developmental processes.

DEP 6607   **Typical and Atypical Development (3)**

Introduction to theory and research on both typical and atypical development of individuals from birth to late life.

DIG 6007   **Trends in Digital Humanities (3)**
Intensive study of one or more current issues in digital humanities. Involves readings in theory, discussion leading, reverse engineering, and participation in current Digital Humanities project.

DIG 6178   **Introduction to Digital Humanities (3)**
Introduction to the interdisciplinary field of Digital Humanities. Examines contemporary theories and debates at the intersection of technology and humanities research and learning, provides practical experience with specific DH tools and methods.

DIG 6585   **Digital Humanities Capstone Project (3)**
Student designs and implements a significant demonstration segment of a practical Digital Humanities project (or serves in an internship and documents it with a portfolio). A written proposal for the project is also required.

DIG 6818   **Feminist Digital Humanities (3)**
This course offers an introduction to foundational concepts and analytical tools in the study of feminist digital humanities and conducts key feminist digital humanities projects using feminist literature.

DIG 6886   **Digital Pedagogy (3)**
Introduction to wide range of foundational concepts & digital tools in digital pedagogy. Designed for English majors & English students, focus is on what the digital can offer to theorizing & teaching of reading, writing, & research in humanities studies.

DIG 3119C   **Digital Drawings (3)**
Exploration of digital vector and raster based illustration and design. Students synthesize traditional drawing and painting skills with digital tools. Includes study of digital imaging, drawing systems, color theory, and idea generation.

DIG 3306C   **3D Animation (3)**
Hands-on exploration of 3D animation. Through a series of structured experiments, exercises and projects students produce short animated films. Emphasis is on 3D workflows, animation principles, visual storytelling, dynamic motion, and performance.

DIG 3323C   **Digital Sculpture (3)**
Hands-on exploration of high-polygon digital sculpting for art and design. Students digitally sculpt figures and organic forms for 2D images, animation, 3D environments, and digital fabrication. Includes study of history, theory, and practices.

DIG 3465C   **Digital Storytelling (3)**

This is an intermediate course focused on digital storytelling for animation and film. Students explore story development, storyboarding, and the creation of animatics. Includes study of pre-production and conventions of cinematography.

DIG 6834C **Digital Antiquity (3)**
This course provides a hands-on, project based introduction to digital technologies as they are used in the study of the ancient world.

DSC 6020 **Terrorism and Homeland Security (3)**
This course will introduce you to the phenomena of contemporary terrorism and extremism. Emphasis will be placed on extremism as a foundation for terrorist behavior, types of terrorism, and how governments and law enforcement agencies respond to terrorism

EBD 6215 **Advanced Theories and Practices in Emotional Handicaps (3)**
In-depth study of specific behavioral disorders of children and youth, with an emphasis on educational implications and interventions.

EBD 6216 **Educational Strategies for Students with Behavior Disorders (3)**
Advanced methods and materials for planning, implementing, and evaluating educational interventions with students with behavior disorders. For certification.

EBD 6246 **Educating Students with Autism (3)**
This course provides an overview of the characteristics, etiology, and prevalence of autism spectrum disorders, along with the knowledge and skills necessary to support the learning of children with autism spectrum disorders.

EBD 6943 **Supervised Practicum in Behavior Disorders (1-12)**
Supervised graduate practicum experiences with children who have behavior disorders. For students seeking certification only.

ECO 5060 **MBA Essentials: Economics (0)**
A survey course designed to familiarize students with basic economics principles and how they apply to individuals, firms, and the overall economy. This course looks at both micro and micro aspects of the economy.

ECO 6005 **Introduction to Economic Concepts for Managers (3)**
A graduate level introduction to the economic foundations of decision making, this course addresses the fundamental tools of micro and macroeconomic analysis and how they can be applied to firms operating in both domestic and global markets.

ECO 6115 **Microeconomics I (3)**
Microeconomic behavior of consumers, producers, and resource suppliers, price determination in output and factor markets, general market equilibrium.

ECO 6120   **Economics Policy Analysis (3)**
Conditions for efficient resource allocation in a market economy; how inefficiency arises in markets and government; ways to reestablish efficiency; social welfare and equity. Introduction to benefit-cost analysis.

ECO 6205   **Macroeconomic Theory and Policy (3)**
Determination of income, employment, wages, prices, and interest rates, contemporary policy issues, long-run economic growth.

ECO 6206   **Macroeconomics I (3)**
Advanced macroeconomic analysis of income, employment, prices, interest rates and economic growth rates.

ECO 6305   **History of Economics Thought (3)**
Current of modern economic thought in the last hundred years.

ECP 6405   **Mathematical Economics I (3)**
This course provides the basic mathematical background necessary to undertake graduate-level work in economics. Several topics from calculus and linear algebra are covered.

ECO 6419   **Managerial Analysis (3)**
A combination of statistical methods and micro-economic analysis and their application for managers of organizations. The course uses statistics and economic reasoning to help managers better understand consumer behavior and cost measures for the firm.

ECO 6424   **Econometrics I (3)**
Theory and use of multiple regression to estimate relations in causal models, use of standard software packages.

ECO 6425   **Econometrics II (3)**
Advanced econometric techniques; model building, estimation and forecasting; design and execution of research projects.

ECO 6505   **Public Finance (3)**
Effects of tax and expenditure policies on resource allocation and income distribution.

ECO 6525   **Public Sector Economics (3)**
The economic role of government in the allocation of resources in the presence of market failure.

ECO 6705   **International Economic Issues (3)**
Analysis of international economic relations and institutions. Analysis of the effects of changing economic conditions and policy on the climate for international business and investment.

ECO 6706   **International Trade: Theory and Policy (3)**
Causes of international trade, international trade policy, economic integration, trade problems of developing countries, and role of multinational corporations in world trade.

ECO 6708   **Global Economic Environment of Business (2)**
Determination of prices, employment, and output in domestic and international settings.

ECO 6716   **International Monetary Economics (3)**
International macroeconomic relationships, foreign exchange market, the international monetary system, balance of payments adjustments, macroeconomic policy in the open economy.

ECO 6906   **Independent Study (1-19)**
Independent study. Student must have a contract with an instructor.

ECO 6917   **Direct Research (1-19)**

ECO 6936   **Selected Topics in Economics (1-4)**
This course content will depend on student demand and instructor's interest.

ECP 6205   **Labor Economics I (3)**
Labor demand and supply, unemployment, discrimination in labor markets, labor force statistics.

ECP 6305   **Environmental Economics and Policy (3)**
An economic analysis of business's and the government's approach to managing environmental issues. The focus of the course is on the analysis of case studies of specific environmental issues using fundamental efficiency analysis.

ECP 6405   **Industrial Organization I (3)**
Structure of industry and its effect on economic efficiency.

ECP 6408   **Economics of Organization (3)**
Theory of the evolution of firms and other hierarchies as alternatives to markets. Topics include the market mechanism as a coordinating system, agency theory, risk-sharing and incentive mechanisms, ownership versus control of organizations, and organizational forms. Intended for PhD and MA in Economics students.

ECP 6415   **Issues in Regulation and Antitrust (3)**
Issues concerning rationale, structure and performance of government regulation and antitrust policy.

ECP 6456 **Law and Economics (3)**
Impact of Tort, Criminal, Property, and Contract Law on the allocation of resources.

ECP 6535 **Analysis of Health Care Issues (3)**
Evolution of medical care industries and government healthcare policies. International comparisons. Measures of cost benefit and of cost-effectiveness.

ECP 6536 **Economics of Health Care I (3)**
Analysis of the supply and demand for health care, health insurance and the pharmaceutical industry.

ECP 6614 **Urban Economics (3)**
Economics of growth and development of urban areas, interurban location patterns.

ECP 6624 **Regional Economics (3)**
Geographical allocation of resources within and among regions, location of households and firms, inter-regional migration of labor and capital, regional growth and development, regional policy.

ECP 6702 **Managerial Economics (2)**
This course presents the microeconomic theory of price determination in an exchange economy with special emphasis on the behavior of firms in various market structures.

ECS 6015 **Economic Development (3)**
The course studies human economic development focusing on explaining cross-country and intertemporal differences in living standards in the world. The course focuses on the microeconomic aspect of economic development.

ECT 5386 **Preparation and Development for Teaching (4)**
The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.

ECT 6197 **Enhancing Career and Technical Education Curriculum (3)**
Enhancing career & technical education curriculum including broadening mission, goals & outcomes, integration with academics, work-based learning, contextual learning, and appropriate technology & certifying student mastery. Open to majors & non-majors.

ECT 6661 **Trends and Issues in Career and Technical Education (3)**
Historical influences and current trends and issues in career and technical education. Emphasis on forces significantly shaping the course of CTE and its relationship with workforce development and academic education. Open to majors and non-majors

ECT 6766 **Emerging Workplace Competencies (3)**

An interactive exploration of emerging workplace competencies through research, analysis, and work-based experiences for the purpose of professional development and program improvement.

ECT 6767   Improving Career and Technical Education Programs (3)
The purpose of the course is to facilitate the development of essential understandings on the nature and use of action research strategies as a means to support improvement strategies involving data collection and analysis, and reporting skills.

ECT 6926   Staff Development (1-5)
Implementation of new procedures addressed to discrete developmental needs of the staff as identified by an educational agency.

ECT 6930   Seminar (3)
Focuses on special topics, interaction with visiting scholars, recent research and major initiatives within the profession.

ECT 6948   Practicum: Industrial-Technical Education (3-6)
A problem-centered field study in the local community, school, government, office, social agency, business, or industry.

ECW 5315   Program Management: Diversified Cooperative Training (3)
Organization, coordination, and budgeting of adult, cooperative, and special programs.

ECW 6205   Administration of Local Programs: Vocational (3)
Organization, personnel selection and assignment, and establishment of policies and procedures for local vocational programs within federal, state and local requirements.

ECW 6206   Supervision of Local Programs: Vocational Education (3)
A study of the factors involved in the supervision of instruction including plans for teacher education, improvement of instruction, coordination of activities, and personnel relations.

ECW 6695   School Community Relations (3)
Maintaining positive relations between career and technical education programs and stakeholders, enhancing CTE image, interacting positively with customers, positive relations with businesses and marketing the program. Open to majors and non-majors.

ECW 6696   Equity and Access in the New Economy (3)
Examine workplace/workforce education regarding equity and access issues of gender, race, class and age through reflective practice, research, dialogue, field experience, product development with implications for education, training, personal and systems change.

EDA 6061   Principles of Educational Administration (3)

Educational administration as a profession. Consideration of organization, control, and support of the educational system.

EDA 6106   **Administrative Analysis and Change (3)**
Change and change strategies in formal and informal organizations are foci. Students will develop change strategies and will apply them to selected situations.

EDA 6192   **Educational Leadership (3)**
Administration course that addresses change, influences, and planning systems. Also examines personnel functions for administrators.

EDA 6194   **Educational Leadership II: Building Capacity (3)**
Three major themes to improve schools within a clear/compelling moral purpose: 1) communities of differences; 2) teacher development through professional community building; and 3) learners and learning through capacity building at the school level.

EDA 6195   **Policy Development (3)**
Contemporary research of diffusion of innovations, political power in policy decision making. Role of establishing educational policies.

EDA 6213   **Culturally Relevant Leadership (3)**
This course prepares culturally responsive leaders to attend to diverse needs of all students. It is organized with the understanding that school leaders are moral stewards and public intellectuals who reflect notions of instructional accountability.

EDA 6232   **School Law (3)**
Basic essentials of School Law. A review of court decisions affecting American education with emphasis on Florida State statutes.

EDA 6242   **School Finance (3)**
Financial support of education by local, state, and federal sources, with emphasis on Florida; Introduction to educational budgeting.

EDA 6262   **Planning Educational Facilities (3)**
Problems in the planning, construction and use of educational facilities. Visitation and /or evaluation of selected schools.

EDA 6271   **Data-based Decision Making Strategies for Educational Leadership (3)**
Beginning with a truncated review of purposes and applications of statistical methods utilized in academic, legislative, and district-level research, this course acquaints students with various ways of framing data-based questions and interpreting data.

EDA 6274   **Technology and Data Analysis for school Leaders (3)**

Course focuses on current research principles, methods and practices in education and learning technologies. Content will focus on the role of research in methods of constructing hypothesis, developing research designs, selecting procedures for observation.

EDA 6503   The Principalship (3)
Organization and administration of the school. Emphasis on the competencies necessary for leadership and management by the principal as the administrator and instructional leader.

EDA 6910   Directed Research (1-19)

EDA 6931   Case Studies in School Administration (3)
Helps prospective administrators understand administrative problems, propose feasible solutions, and evaluate courses of action. Develops skill in decision making.

EDA 6945   Administration Practicum (3-8)
Field experiences in school systems for identifying and analyzing educational problems and their solutions. Application of concepts developed in the student's program.

EDA 6971   Thesis: Masters/Educational Specialist (2-19)

EDE 6076   Teacher Leadership for Student Learning (3)
Prepares teachers as facilitators as they explore leadership roles in the K-12 contexts, including exemplary practitioner, curriculum decision-maker, researcher, advocate, and facilitator or job-embedded professional development.

EDE 6225   Problems in Curriculum and Instruction: Elementary (1-3)
For teachers, supervisors, and administrators. Curricular and instructional problems of the elementary school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.

EDE 6303   Instructional Planning for Maximizing Elementary Student Leadership (3)
The purpose of this course is to explore approaches to instructional planning that maximize student learning by using student data to meet the diverse needs of elementary learners.

EDE 6326   Instructional Planning for Diverse Learners (3)
Introduction to the theories and practices that support children's learning. Includes accessing resources that support teaching, developing lessons, designing appropriate assessments, and the elements that influence instructional decision-making.

EDE 6328   Development & Management of Diverse Learners (3)

The course is designed to deepen candidates' understanding of child growth/development in the classroom contexts of learning and behavior management for diverse and exceptional populations. Candidates will participate in a field experience for 12 hrs/wk.

EDE 6346   Teaching and Learning with Technology in Elementary Classrooms (3)
The purpose of this course is to support teachers in developing their own knowledge, comfort, and practice with technology as learners and support them in designing meaningful instructional experiences for K-12 students.

EDE 6365   Culturally Responsive Pedagogy for Elementary Student Learning (3)
This course provides the opportunity for the learner to develop the knowledge, skills, process, and understanding of the techniques and methods needed to develop as a culturally responsive teacher.

EDE 6366   Professional Development for Student Learning (3)
This course prepares effective teacher leaders for facilitating job-embedded educator learning with a specific focus on P-6 student learning.

EDE 6458   Reflecting on Instructional Decision Making (1-3)
Develops the students' abilities to reflect upon teaching practice and evaluate instructional decisions on K-6 student learning. The first hour is taken with the practicum. The second hour is to be taken in conjunction with final internship.

EDE 6486   Teacher Research for Student Learning (3)
Familiarizes practicing teachers with the application of research methodologies to strengthen teaching & learning in elementary schools. This course cultivates the literacy skills the educators need for professional accountability for student learning.

EDE 6506   Managing & Differentiating the Instructional Environment in Elem Schools (3)
Prepares coaches for facilitating preservice & in-service educator learning with specific focus on P-6 student learning.

EDE 6556   Coaching for Student Learning (3)
Prepares coaches for facilitating preservice & in-service educator learning with specific focus on P-6 student learning.

EDE 6906   Independent Study: Elementary/Early Childhood Education (1-6)
Independent Study in which students must have a contract.

EDE 6946   Practicum Field Experience (3)

This intensive practicum experience is designed to complement foundational MAT course work and is completed during the second block of the MAT program. This course is restricted to majors and is not repeatable. S/U only.

EDE 6971   **Thesis: Masters/Educational Specialist (2-19)**

EDF 6120   **Child Development (3)**
This course provides an overview of educational, emotional, hereditary, intellectual, social, and physical factors influencing child growth and development.

EDF 6133   **Child & Adolescent Development and Learning (3)**
This course examines child and adolescent growth and development with specific emphasis on investigative methods and application to instruction organization/management of learning environments.

EDF 6165   **Group Processes for Educational Personnel (1-3)**
Application of group process research to the needs of professional educators and training officers.

EDF 6166   **Consulting Skills for Staff Development (1-3)**
Knowledge and skill training for consulting with organizational clients to solve educational problems and design learning environments or programs.

EDF 6211   **Psychological Foundations of Education (3)**
Selected topics in psychology of human development and learning, related to schools and educational settings.

EDF 6213   **Biological Bases for Learning Behavior (3)**
Human biological development and its influence upon learning and behavior.

EDF 6215   **Learning Principles Applied to Instruction (4)**
Learning Principles and their application to classroom instruction.

EDF 6217   **Behavior Theory and Classroom Learning (4)**
Theory and practical applications of behavior modification; introduction to experimental methods for behavior modification; operant methods in behavior and development; analysis and field work.

EDF 6281   **Workshop and Conference Design (3)**
Theory and practical applications of behavior modification; introduction to experimental methods for behavior modification; operant methods in behavior and development; analysis and field work.

EDF 6284   **Problems in Instructional Design for Computers (3)**
This course focuses on the systematic design of instructional courseware, including analysis, media selection, and evaluation. Topics include instructional strategies, screen design, response analysis, feedback and interactivity.

EDF 6288   **Instructional Design I (3)**
Instructional design models/theories and their systematic application to instructional goals.

EDF 6354   **Human Development and Personality Theories (4)**
A study of psycho-social and cognitive development throughout a person's life span with an analysis of the major personality theories.

EDF 6407   **Statistical Analysis for Educational Research I (4)**
Theory and application of statistical procedures to problems in education: (1) descriptive statistics, (2) Probability-sampling distributions, (3) Inferential statistics-interval estimation, tests of significance (z, t, F-one way ANOVA). Coordinated use of computer included.

EDF 6432   **Foundation of Measurement (3)**
Basic measurement concepts, role of measurement in education, construction of teacher-made tests and other classroom assessments, interpretation of standardized tests, and fundamental descriptive statistics for use in test interpretation.

EDF 6446   **Development and Validation of Tests in Education (3)**
Design, construction, and validation of state-wide tests. Special emphasis on domain sampling, item response theory, item scaling, item fit, and constructing, maintaining, and updating item banks.

EDF 6461   **Foundations of Applied Evaluation (3)**
Fundamentals of evaluation approaches and practices; tools & techniques used in evaluation; standards of quality for professional practice; evaluation ethics; appropriate evaluation uses; and impact of evaluation on decision making.

EDF 6481   **Foundations of Educational Research (3)**
Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies.

EDF 6492   **Applied Educational Program Evaluation (3)**
Design, development, implementation, interpretation, and communication of both formative and summative educational program evaluation studies.

EDF 6517   **Historical Foundations of American Education (3)**
History of the origins and development of American education, events, and movements that have shaped school policies and practices, and their relationship to contemporary developments.

EDF 6531   **History of Childhood (3)**
History of modern childhood, including diversity of childhood experiences and social construction of age categories.

EDF 6552   **The Role of Education in a Democracy (3)**

This course will focus on the common conceptions of democracy, equality, freedom, liberty, and equity and what these conceptions imply for educational aims and practice.

EDF 6606   **Socio-Economic Foundations of American Education (4)**
Socio-economic factors as they relate to the work of professional educators and the role of public education in American society.

EDF 6697   **Learning and Linguistic Diversity in a Transitional Context (3)**
This course will explore the relationships between immigration, identity, and language. The course will take a transnational approach, which presumes that people, language, and culture are subject to dynamic change within the globalized world.

EDF 6705   **Gender and the Educational Process (3)**
Course is designed to enable public school personnel, teachers, counselors, administrators, and other professionals to identify those aspects of public education that perpetuate sex role stereotyping. Emphasis will be placed on how the law and formal and informal affirmative action activities can be employed to correct sexism in schools.

EDF 6736   **Education, Communication, and Change (3)**
Developments in communication as a process of social change as it affects students, teachers, and traditional school arrangements.

EDF 6765   **Schools and the Future (4)**
Estimates of future demands upon schools; critique of current paradigms, techniques, and literature.

EDF 6809   **Intro to Comparative and International Education (3)**
This course provides an examination of the major issues surrounding comparative and international perspectives in education.

EDF 6863   **Contemporary Issues and Trends in International Education (3)**
This course focuses on current IB research, trends, issues, as well as international, national, and state/provincial legislation concerning schools and the potential impact on IB schools.

EDF 6864   **International Perspectives and Practices in Gifted and Talented (3)**
This course focuses on historical and current conceptions of giftedness and talent development. Historical and current practices in the education of gifted and talented learners will also be examined.

EDF 6883   **Issues in Multicultural Education (4)**
Lecture/discussion course, open to both majors and non-majors; address both fundamental concepts and timely issues in multicultural education and working with culturally diverse students.

EDF 6906   **Independent Study: Educational Foundations (1-6)**
Independent study in which students must have a contract with an instructor.

EDF 6935   **Wellness Programming Seminar (2)**
This course familiarizes students with the array of extant programs to facilitate wellness and prevent problems that often affect college students. Through review and critique of such programs, participants will be able to design and administer wellness programs in their professional roles.

EDF 6938   **Selected Topics (1-4)**
Exploration and demonstration of knowledge in an area of special interest to the student and/or in an area for which the student needs to demonstrate a higher level of competence. Designed to fit the needs of each student.

EDF 6941   **Practicum in Measurement, Evaluation, and Research (1-4)**
Practicum provides individuals in the M.Ed.in Measurement and Evaluation opportunities to apply research and evaluation skills in applied settings (e.g., local school districts, Centers within the University). May be repeated up to 8 hours.

EDF 6944   **Field Experience (1-4)**
Demonstrate skills in the practice of the student's specialty. Objectives will be defined by the needs of the individual student.

EDF 6971   **Thesis: Masters/Educational Specialist (2-19)**

EDG 5014   **Introduction to Standards Based Education (1)**
This course is designed to introduce students to standards-based education, linking program outcomes for student learning with the relevant state and national educational standards.

EDG 6285   **School Curriculum Improvement (3)**
Open only to teachers in service. Complete faculty participation required.

EDG 6344   **Project T.E.A.C.H. (Teacher Effectiveness and Classroom Handling) (3)**
Topics and techniques in verbal communication skills, questioning, paraphrasing, positive support skills, problem solving, counseling techniques, non-confrontation strategies, group dynamics, and discipline decision making.

EDG 6436   **Cybersecurity in the Schools (3)**
Knowledge in developing and implementing cybersecurity policies that govern schools and districts.

EDG 6447   **Instructional Design and Classroom Management (3)**
Examines the legal issues affecting classroom/school management, school safety, professional ethics, & elementary school methods; explores best practices of a variety of teaching/management strategies deemed appropriate for diverse elementary settings.

EDG 6627   **Foundations of Curriculum and Instruction (3)**
Open to all graduate students. Introductory course in curriculum and instruction at the graduate level, basic to all specialized courses in the field. Emphasis on foundations, design, basic concepts, theory, and trends of curriculum from early childhood through secondary levels.

EDG 6906   **Independent Study (1-19)**
Independent study in which students must have a contract with an instructor.

EDG 6931   **Selected Topics in Education (1-4)**
Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic.

EDG 6935   **Seminar in Curriculum Research (1-3)**
Critical evaluation of current research and curriculum literature, design and analysis of individual research topics leading to satisfaction of research requirements.

EDG 6947   **MAT Final Internship (1-9)**
Critical evaluation of current research and curriculum literature, design and analysis of individual research topics leading to satisfaction of research requirements.

EDG 6971   **Thesis: Masters/Education Specialist (2-19)**

EDG 6975   **Project: Master's/Specialist (1-9)**
Individual scholarly project planned and completed with the approval of the advisor and program committee.

EDH 6051   **Higher Education in America (3)**
For current and prospective faculty, administrators, policy analysts, and staff seeking to learn about American higher education. The topics addressed include the history, recent developments, and projections for the future of various aspects of higher education, including its missions, purposes, students, faculty and staff, administration, finance, organization, governance, and role in American society.

EDH 6081   **Junior College in American Higher Education (3)**
Philosophical and cultural bases for definition of its role and contemporary issues, such as control, financing, and curricular patterns. Emphasis on the place and problems of the community junior college.

EDH 6406   **Ethics and Higher Education (3)**
The purpose of this course is to assist students in developing a detailed ethical framework that will guide their actions and decision-making as they serve in leadership and teaching positions in higher education. Areas of emphasis include (a) learning selected philosophies of ethics; (b) exploring student, faculty, and classroom ethical issues; (c) discussing administrator/board ethical issues; (d) examining the college or university as an ethical organization.

EDH 6906   **Independent Study (1-19)**

Independent study in which students must have a contract with an instructor. Rpt. S/U.

EDH 6938   **Seminar in College Teaching (3)**
Implications of learning theory and student characteristics for teaching at the college level. Types of teaching procedures, innovation, evaluation, student freedom, and responsibility for learning.

EDH 6947   **Internship in Higher Education (1-6)**
This course provides higher education program graduate students with an extensive, semester-long, field experience in a two- or four-year college, under the dual guidance of a campus-based supervisor and a USF higher education program faculty member. The internship experience must relate to the student's goals in the doctoral program. Students should be at or near the end of their graduate program.

EDM 6256   **Problems in Curriculum and Instruction: Middle School (1-3)**
For teachers, supervisors, and administrators. Curricular and instructional problems of the middle school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.

EDM 6622   **Client Centered Middle Schools (3)**
Combination lecture/discussion/independent study course that examines in depth the current research on needs/characteristics of the early adolescent and its implications for both organization of the middle grade school and its delivery of curriculum and instruction.

EDM 6624   **Effective Instruction for Middle Schools (3)**
Combination lecture/discussion/individual study course that examines in depth the current research on both alternative instructional strategies and assessment practices that are successful with middle level students.

EDM 6935   **Middle School Issues Seminar (1-3)**
Combines discussion/individual study seminar modeling the advisory concept in a university setting and examining the current research on a variety of important trends/issues affecting middle level education.

EDS 6050   **Principles and Practices of Educational Supervision (3)**
Three major themes to improve schools within a clear/compelling moral purpose: (1) communities of differences; (2) teacher development through professional community building; and (3) learners and learning through capacity building at the school level.

EDS 6131   **Clinical Supervision (3)**
Trains administrators, supervisors, and peer teachers in observing and diagnosing teacher classroom performance, writing remedial plans, conducting post observation conferences, and evaluating performance.

EDS 6239   **Problem in Supervision (3)**
Analysis of instructional problems in schools. Emphasis on supervisory tasks, case studies, and the application of problem solving techniques and strategies.

EEC 6055   **Advocacy and Leadership in Early Childhood Education (3)**
This course focuses on developing leadership skills and knowledge necessary to help individuals build coalitions and design effective public policy/advocacy initiatives. This course is open to graduate non-majors and is repeatable for 3 hours credit.

EEC 6205   **E.C.: Curriculum and Authentic Assessment (3)**
This course focuses issues, strategies and research associated with curriculum and authentic assessment. This course is open to graduate non-majors and is repeatable for three hours credit.

EEC 2565   **Early Childhood Programs and Advanced Curriculum (3)**
Historical traditions and contemporary programs and curriculum models analyzed with an emphasis on dominant practices, methodologies, and current research that influences curriculum development in programs serving young children. Open non-majors/RTHC.

EEC 6415   **EC: Diversity in Home and School (3)**
Focuses on issues of diversity that affect classroom practices with emphasis on analyzing and synthesizing pertinent literature and research. This course is open to graduate non-majors and is repeatable for three credit hours.

EEC 6517   **Social Justice in Early Childhood Education (3)**
This course uses a social justice lens to examine the impact of diversities on social functioning and development of young children. Research skill development includes analysis of social policies. Course is open to non-maj and is rpt for 3 credit hours.

EEC 6525   **Early Childhood Program Development and Administration (3)**
An analysis of current educational programs for young children with emphasis on designing, developing, and administering a program commensurate with the needs of young children. This course is open for non-majors and is repeatable for 3 credit hours.

EEC 6626   **EC: Play and Learning (3)**
This course includes an analysis of play theories, the role of play in the total development of young children, and the role of play as a curricular tool and implications for program planning and evaluation. Open non-majors/RTHC.

EEC 6678   **Research Seminar: Issues and Trends in Early Childhood Education (3)**
This course is designed to create an awareness of developing trends and issues facing the field of early childhood education. Relevant research is reviewed and possible avenues for advocacy are explored. Course open to non-majors, repeatable for 3 credit hours.

EEC 6926 **Workshop in Early Childhood Education (3)**
Individual problems and innovations related to methods and materials of instruction in early childhood.

EEX 5705 **Seminar in Preschool Handicapped (2)**
Intended to familiarize the education student with the wide range of needs and services of the preschool children with disabilities and their families and how they coordinate with educational services.

EEX 5752 **Working with Families: A Pluralistic Perspective (3)**
The impact of the socio/cultural environment on the education of at-risk children and children with disabilities; family systems theory, principles of multi-cultural education, strategies for working effectively with families of school-age children, diverse cultures and family structures represented in school populations today.

EEX 6025 **Trends and Issues in Special Education (3)**
Survey of all exceptionalities including current trends and issues related to the field of special education.

EEX 6051 **Creating Positive Learning Environments for Students with Disabilities (6)**
This course presents an overview of assessment, behavior management, and instructional planning for students with disabilities. It also incorporates content about the historical and legal foundations of special education and theories and research that focus on defining, describing and intervening with students who have learning disabilities, behavior disorders, mild-moderate mental retardation, mild to moderate developmental disabilities, and physical disabilities.

EEX 6065 **Collaborative Transition and Career Planning for Students with Low Incidence Disabilities (3)**
This course offers an analysis of collaborative, interdisciplinary transition planning strategies and explores issues surrounding the development and use of functional, community-based curriculum for adolescents with severe or profound disabilities.

EEX 6222 **Advanced Psychoeducational Assessment of Exceptional Students (3)**
Theory and methodology associated with norm-referenced, criterion-referenced, curriculum-based, ecological, and psych neurological assessment procedures for exceptional students.

EEX 6224 **Developing Individualized Educational Programs for Students with Disabilities (6)**
This 6-hour course reinforces and extends competencies in assessment, behavior management, legal and ethical foundations of special education, instructional planning, and working with families, collaboration, and characteristics of disabilities. Content emphasizes knowledge and skills needed by teachers who are working with students who have mild disabilities and those from diverse cultural, socioeconomic and ethnic areas.

EEX 6234 **Identification and Assessment of Individuals with Low Incidence Intellectual Disabilities and ASD (3)**

Critical analysis of the processes in place to identify students with severe/profound intellectual disabilities and/or autism spectrum disorder (ASD). Explores curriculum instruction and assessment in a least restrictive environment.

EEX 6245　**Transitional Programming for the Adolescent and Young Adult Exceptional Student (3)**
Procedures for implementing educational programs with exceptional adolescents. Includes educational programming, alternative programs, community resource coordination, career/occupational education, and advocacy.

EEX 6247　**Implementing Programs for Students with Disabilities (6)**
Course emphasizes instructional approaches for implementing reading, math, language arts and social skills instruction in conjunction with classroom management for students with emotional, learning and/or cognitive disabilities. Majors only. Not repeatable.

EEX 6248　**Instructional Approaches for Exceptional Populations (3)**
In-depth study of instructional strategies that are effective when teaching students with emotional disturbance, mental retardation, and learning disabilities. Content includes techniques for curriculum adaptation, IEP development; direct, data-based and metacognitive strategy instruction; and micro-computer applications.

EEX 6307　**Qualitative Research in Special Education (3)**
Graduate research seminar that introduces students to the philosophies, methods, epistemologies & ethical foundations of qualitative research for those interested in students with disabilities & their families; nonrestrictive; repeatable for credit.

EEX 6476　**Curriculum and Instruction for Students with Low Incidence Disabilities (3)**
Analysis of current issues and best practices in assessment for teaching, curriculum content, and instruction for students with severe disabilities and the provision of educational services within inclusive general education settings and home communities.

EEX 6511　**Administration of Exceptional Student Programs (3)**
Procedures that local, state, and national administrators may use to implement services for exceptional students.

EEX 6602　**Observational Methods and Functional Assessment (3)**
Provide students with instruction in functional assessment procedures and direct observation methods to be used consistent with the principles of applied behavior analysis in mental health and education settings.

EEX 6612　**Management and Motivation of Exceptional and At-Risk Students (3)**
Available to non-majors. Focuses on approaches to classroom management and motivational strategies when working with exceptional students. Content includes applied behavior analysis techniques, psychoeducational approaches, and social skills training.

EEX 6619　**Positive Behavior Support Low Incid. Intellectual Disab. & ASD (3)**
Knowledge and skills necessary to develop, implement, and evaluate the impact of positive behavior support for students with intellect. disab and/or autism spectrum

disorder. Communicative function of challenging behaviors, teaching new skills & prevention

EEX 6706   **Education of the Preschool Handicapped Child (3)**
Education of children ages birth through five with special needs. Basic concepts, curricular intervention strategies, and organizational structures are covered.

EEX 6732   **Consultation and Collaboration in Special Education (3)**
Theories of consultation and collaboration. Overview of service delivery models in special education.

EEX 6767   **Assistive Technology for Students with Low Incidence (3)**
This course is an introduction to educational and assistive technology used for instruction of students w/ low incidence disabilities with emphasis on students w/ asd. Strategies for at devices include augmentative/alternative communication systems.

EEX 6906   **Independent Study: Special Education (1-6)**
Independent study in which students must have a contract with an instructor.

EEX 6939   **Advanced Seminar: Paradigms, Practices, and Policies in Special Education (3)**
An advanced graduate seminar stressing cross-categorical relationships. Topics include research that deals with paradigms for providing service, service models, and legal mandates.

EEX 6943   **Practicum in Exceptional Student Education (1-4)**
Supervised field work in exceptional student education with children (including preschool handicapped) who have learning disabilities, mental handicaps, emotional and behavioral disabilities, physical disabilities, or multiple disabilities.

EEX 6971   **Thesis: Masters/Educational Specialist (2-19)**

EGI 5051   **Nature and Needs of the Gifted (3)**
This survey course examines the characteristics and educational needs of children and youth who are gifted, including those from special populations. Emphasis is on giftedness as defined historically, nationally and locally. The course also explores changing views of intelligence and talent development related to policy and practice in gifted education as well as the processes of identification and programming.

EGI 5307   **Theory and Development of Creativity (3)**
Exploration of the concept of creativity, its factors, measurement, and application to education. Opportunities are given to work with children in a laboratory setting and to prepare materials to be used with small groups of children.

EGI 6232   **Advanced Educational Strategies for the Gifted (3)**
Curriculum adjustments, methods and techniques, as well as classroom organizations necessary for teaching students who are gifted will be the focus of this course. Emphasis will also be on curriculum in gifted programs within the context of school reform and restructuring.

EGI 6415   **Consultation, Counseling, and Guidance Skills for Gifted Students (3)**
Primary emphasis of this course will be to provide an awareness, knowledge, and understanding of the unique guidance and counseling needs of students who are gifted and talented or from special populations.

EGI 6936   **Seminar in Education of the Gifted: Special Population (3)**
This seminar will provide a critical survey of the research, issues, policy, ethics, and practices related culturally diverse, economically disadvantaged, limited, English proficient, twice exceptional, highly gifted, or very young.

EGI 6943   **Supervised Practicum in Gifted Education (1-12)**
Planned experiences working with students who are gifted, program development and administration, or an individualized inquiry of a specific issue related to gifted education.

ELD 6015   **Advanced Theories and Practices in Specific Learning Disabilities (3)**
Various conceptual and/or theoretical models are reviewed; current trends and issues related to education of children with specific learning disabilities.

ELD 6147   **Educational Strategies for Student with Specific Learning Disabilities (3)**
Advanced educational procedures and materials development for the student with specific learning disabilities. For certification.

EME 5317   **Technology Leadership in Education (3)**
Selecting, organizing, and using major types of instructional technology and equipment in various school curricula and educational programs. Explores the transformational power of emerging technologies in schools.

EME 5403   **Computers in Education (3)**
A survey course designed to introduce practicing teachers to microcomputer technology and its function in the classroom to augment the teaching and learning processes. Objectives include the use and evaluation of educational software, classroom use of computers, instructional computing research, generic applications software (word processors, database managers, etc.), programming, disk operating systems, and microcomputer hardware.

EME 6016   **Digital Citizenship and Online Safety (3)**
This course provides an overview of basic digital citizenship concepts and a critical view of online safety issues with a focus on youth and educational settings.

EME 6053   **Internet in Education (3)**
The course is completely online. Topics include: educational resources, copyright and safety issues, webpage construction (HTML), and evaluation of websites.

EME 6055   **Current Trends in Instructional Technology (3)**
Development of concepts, strategies, and materials for the use of computer technology in the enhancement of instruction. The course explores the impact that computer technology can have on the nature of the teaching/learning process.

EME 6076   **Introduction to Online Teaching and Learning (4)**
The course will explore the principles of the online teaching and learning community and instructor competencies used in facilitating online courses.

EME 6157   **Game Design & Development for Learning (3)**
Students learn about the structure of computer games, and the design and development of games for learning. Students work in interdisciplinary teams designing/developing a game for learning**.**

EME 6207   **Web Design (3)**
This course focuses on the design and development of instructional and informational web sites.

EME 6208   **Interactive Media (3)**
Focuses on the design, development, and implementation of interactive media in instructional settings. Examples include interactive presentations, digital audio & video, digital photography, virtual worlds, as well as basic web publishing.

EME 6209   **Digital Video (3)**
This course addresses concepts issues and practices associated with creating effective instructional DVD videos Included in the course topics are production mgmt storyboarding camera lighting techniques editing graphics hardware systems.

EME 6215   **Instructional Graphics (3)**
Advance knowledge and application of the principles underlying the design and use of graphics in instructional settings.

EME 6235   **Technology Project Management (3)**
Introduction to the basic processes of project management for instructional design projects. Students will be introduced to organizational issues, methods of planning, and techniques for managing the business and creative processes.

EME 6346   **Data Visualization in Education (3)**
Students will learn how to communicate effectively using data in reporting. In addition, students will be able to create graphs, images, diagrams, and animations to convey messages to differing constituents in educational settings.

EME 6347   **Digital Media and Learning (3)**
In this course students will be introduced to the sociological and critical literatures on instructional technology, primarily via the Digital Media and Learning (DML) research network.

EME 6348   **Predictive Learning Analytics (3)**
This course will examine how educational professionals can leverage data to promote student success. Student will learn how to use data modeling to effectively identifying at-risk students and create programs to support those students.

EME 6356   **Introduction to Big Data and Learning Analytics (3)**

This course will explore the design and implementation of large databases used for educational planning, evaluation, and assessment. In addition, the course will investigate the analysis of data for the purposes of optimizing student learning.

EME 6419   **Motivational Design for Learning Technology (3)**
This course explores the design principles of learner motivation in technology-enhanced learning environments. Students will learn various motivational design concepts and also be engaged in the motivational design process.

EME 6425   **Technology for School Management (3)**
This course provides information and skills necessary for administrators and teachers to effectively use the computer and application software to manage information. Students use programs such as word processors, database managers, and spreadsheets to facilitate management tasks at the school and classroom level. In addition, general computer education topics are covered which provide for the computer literacy of school administrators.

EME 6457   **Distance Learning (3)**
This online course about distance learning is designed to provide an integrated framework to explore theory within practice. The course will explore all types of distance and distributed learning—not just online learning.

EME 6613   **Development of Technology-Based Instruction (3)**
Application of computer-based instructional design principles to the development of technology-based instruction. This course also incorporates state-of-the-art materials and methods involving digital technologies.

EME 6614   **Games Analytics for Learning (3)**
Students first learn theory & practice of game analytics, i.e., using games to gather data for assessment of learning; then fine-tune a game with iterative cycles of formative evaluation & revision; and finally gather a data set & analyze it.

EME 6817   **Data in Assessment and Accreditation (3)**
This course will explore the role of data in assessment and accreditation. Educational practitioners will gain an understanding of how assessment can inform their work and how data collection and analysis can be critical to a successful accreditation.

EME 6906   **Independent Study in Instructional Technology (1-6)**
Independent study under the direction of an IT faculty member. Student must have contract with instructor.

EME 6930   **Programming Languages for Education (3)**
Development of concepts, strategies, and materials for using programming languages in educational settings. Separate sections will focus on different programming languages such as LOGO, BASIC, Hyperscripting, Pascal, Advanced Pascal.

EME 6936   **Applications of Computers as Educational Tools (3)**
Selected topics in the application of computing and related technology to the teaching and learning processes. Separate sections will focus on topics such as

telecommunications, image and sound processing, interactive media, artificial intelligence, data acquisition, and information systems.

EME 6971 **Thesis: Masters/Ed. Specialist (2-9)**
The purpose of the thesis/project (Education Specialist student requirement) is to provide an opportunity for the student to apply knowledge gained in the program to the resolution of significant needs arising from professional practice.

EME 6972 **Online Teaching and Learning Master's Project (2)**
Students work to design and create an online course in the Learning Management System of the university synthesizing theoretical work completed in the program.

EMR 6052 **Advanced Theories and Practices in Mental Retardation (3)**
In-depth study of the complex social and biological aspects of mental retardation with particular reference to effects on education.

EMR 6255 **Educational Strategies for the Mentally Retarded (3)**
In-depth study of the specific curriculum and methodological problems in teaching students with mental retardation. For certification.

ENC 6261 **Professional and Technical Communication (3)**
We`ll engage with Professional writing as a workplace practice, as a theoretical locus, as a historical object, a protean disciplinary endeavor that spans several departments, and a pedagogical practice.

ENC 6319 **Scholarly Writing for Publication in English Studies (3)**
Methods of writing and publishing scholarly articles, monographs, and textbooks in rhetoric and composition, literary scholarship, and criticism. Required for Literature majors.

ENC 6333 **Contemporary Rhetorics (3)**
This course examines the impact of postmodern theories on theory and practice of rhetoric—particularly the rhetoric of rhetoric and composition. The course examines ways post-modern rhetoric lends itself to the developing media and complexity theory.

ENC 6336 **Studies in the History of Rhetoric (3)**
Examines the evolving relationship between rhetoric and composition from antiquity to the present.

ENC 6421 **Studies in Rhetoric and Technology (3)**
Examines the intersection of Rhetoric and technology, with emphasis on contemporary critical issues in composition studies.

ENC 6422 **New Media Production (3)**
Beyond familiarity with the ethical and epistemological implications of new media, 21st century rhetoricians require knowledge of new media communicative tools and techniques. They include html, css, javascript,blogging, podcasting, vblogging,and Flash.

ENC 6700 **Studies in Composition Theory (3)**

Major theories and models of composing. Selected theorists include Rohman, Emig, Sommers, Flowers, and Hayes.

ENC 6720   **Studies in Composition Research (3)**
Examines and evaluates a broad range of important research studies conducted in composition and a variety of research techniques such as descriptive statistics, qualitative research design, and measurement and evaluation. Instruction in how to conduct composition research.

ENC 6740   **Theory and Development of Writing Programs (3)**
Operating theories of and administrative procedures for implementing writing programs on various levels; focuses on remedial, freshman, advanced, and technical writing programs as well as writing centers.

ENC 6745   **Teaching Practicum (3)**
To supplement and deepen theoretical and practical experiences during the first teaching semester. To combine and apply different theoretical approaches to teaching writing in actual classroom practice.

ENG 6005   **Scholarly Research and Writing (3)**
PhD students will improve their skills with advanced research methods in preparation for writing the prospectus and dissertation, work on conference papers and journal articles, and research the job market and the challenges that face new faculty.

ENG 6009   **Introduction to Graduate Study (3)**
New graduate students will read about the discipline, learn the methods of scholarly research and inquiry, and adjust their academic skills for graduate-level work. The course will also introduce them to some key research databases and resources.

ENG 6018   **Studies in Criticism and Theory I (3)**
This course examines selected controversies in literary criticism and scholarship from the classical period to 1800, including problems of imitation, the quarrel between Ancients and Moderns, the ethics of the imagination, and the roles of women critics.

ENG 6019   **Studies in Criticism and Theory II (3)**
This course focuses on important trends in contemporary literary criticism with the major theoretical texts that inform these trends.

ENG 6067   **History of the English Language (3)**
This course traces the evolution of the English Language from its early Germanic and Scandinavian roots to its emergence in time as tantamount to a universal language. The course uses literary works to show the stages of dramatic change.

ENG 6145   **Rogue Cinema (3)**
Examine films by revolutionary filmmakers who have deviated significantly and strategically from earlier traditions, considering how these filmmakers challenged cinematic, intellectual, aesthetic, and cultural codes beginning in 1915.

ENG 6916   **Directed Research (1-19)**

ENG 6939   **Graduate Seminar in English (3)**
Intensive small-group discussion as well as shared and individual guided research in one
of the student's areas of concentration.

ENG 6946   **Internship (3)**
This course consists of supervised work-and-learning experience in professional and
technical communication or related fields under the direction of a University faculty
member and an employee of a participating firm.

ENG 6971   **Thesis: Master's (2-19)**

ENL 5137   **British Novel 1900 to the Present (3)**
This course provides advanced study of trends and influences in longer British fiction
from about 1900 to the present It traces the development of the novel form focusing on
works and authors considered to have made major contributions to British fiction.

ENL 6206   **Studies in Old English (3)**
A study of Old English language, prose style, poetry.

ENL 6216   **Studies in Middle English (3)**
Selected focused studies in language and in various authors and writings, 1100-1500;
Chaucer, the Pearl poet, Everyman, ballads, drama.

ENL 6226   **Studies in Sixteenth-Century British Literature (3)**
Selected focused studies in sixteenth-century British literature; Shakespeare, Sidney,
Spenser, Marlowe, and others.

ENL 6228   **Studies in Seventeenth-Century British Literature (3)**
Selected focused studies in British literature, 1600-1660; Bacon, Donne, Jonson,
Herbert, Milton, and others.

ENL 6236   **Studies in Restoration and Eighteenth-Century British Literature (3)**
Selected focused studies in Restoration and Eighteenth-Century British literature:
Dryden, Defoe, Pope, Swift, Fielding, Sheridan, Johnson, Boswell, and others.

ENL 6246   **Studies of the English Romantic Period (3)**
A study of pre-Romantic and Romantic prose, fiction, nonfiction, and poetry.

ENL 6256   **Studies in Victorian Literature (3)**
A study of Victorian poetry, fiction, non-fictional prose, and drama.

ENL 6276   **Studies in Modern British Literature (3)**
A study of Irish and English drama, the modern novel, poetry, criticism, and the short
story.

ENT 6016   **New Venture Formation (3)**

An introductory entrepreneurship course. Students learn to develop venture ideas, evaluate venture opportunities and understand financial, marketing, and managerial needs of a venture.

ENT 6116   **Business Plan Development (3)**

Course is designed to enable students to prepare and present a business/venture plan. Students can prepare a plan for their own venture or a "client organization."

ENT 6119   **Mergers and Acquisitions: An Entrepreneurial Perspective (3)**

This course introduces students to the serious professional art and science of doing successful deals. Students are introduced to all aspects and stages of the merger/acquisition process and how to effectively manage the inherent challenges.

ENT 6126   **Strategies in Technology Entrepreneurship (3)**

Students will learn that entrepreneurial opportunities are both identified in the existing socioeconomic environment and created through innovation. Students will learn theory based models and their application through case studies and a final project.

ENT 6186   **Strategic Market Assessment (3)**

This course is designed to enable the student to gain an in-depth understanding of the techniques used to analyze market opportunities for new inventions and intellectual properties.

ENT 6415   **Fundamentals of Venture Capital and Private Equity (3)**

The purpose of the course is to convey five primary areas of knowledge: learning to think like an investor, the capital raising process, how to perform business valuations, securities law, and what venture capitalists do.

ENT 6507   **Social Entrepreneurship in Emerging Markets (3)**

This course explores fundamental business approaches and issues in the emerging markets of Latin America with special emphasis on the link between sustainable economic development and the development of entrepreneurial skills in women.

ENT 6508   **Social Entrepreneurship I (3)**

A course focused on the design and growth of mission-driven enterprises that use market-based approaches to solve today's social or environmental problems.

ENT 6509   **Social Entrepreneurship II (3)**

The second part of a two-course sequence. In this course students will incorporate their organizations and work on launching, establishing, growing, and leading their mission-driven social enterprises.

ENT 6606   **New Product Development (3)**

This course is designed to prepare both business and engineering students to contribute to the development of strategies and tasks relevant to new product introductions. The skills developed will enable students to analyze and develop product strategies.

ENT 6930   **Special Topics in Entrepreneurship (3)**

A special topics section for students pursuing their MS in Entrepreneurship and Applied Technology. Faculty will periodically offer elective courses on topics of interest.

ENT 6947   **Advanced Topics in Entrepreneurship (3)**
Provides students the opportunity to apply the skills and knowledge acquired in previous entrepreneurship courses. Students gain practical experience through an internship or writing a business plan.

ENY 3004C   **Introduction to Entomology (4)**
An introduction to general aspects of insect morphology, development, and classification. The identification of local forms will be emphasized. Fieldwork required. Lecture and Laboratory.

ENY 5505C   **Aquatic Entomology (4)**
Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Fieldwork required. Lecture and Laboratory.

EPD 5051   **Advanced Theories in Motor and Physical Disabilities (3)**
Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.

EPD 5321   **Educational Strategies for Physically and Multi-handicapped Students (3)**
Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.

EPD 6944   **Supervised Practicum in Motor Disabilities (3-12)**
Supervised graduate practicum encompassing teaching and supervising experiences in public/private educational or vocational programs for students with physical disabilities in the classroom, hygiene, and educational implications.

ESE 5342   **Teaching the Adolescent Learner (3)**
Emphasis is placed on adolescent developmental and learning needs linking them to practices in the classroom appropriate to the diverse secondary education population (ESOL, special education, multicultural, at-risk, etc.) in preparation for planning responsive standards-based instruction.

ESE 5344   **Classroom Management for a Diverse School and Society (3)**
This course covers practical, theoretical, philosophical and ethical aspects of school and society, the education profession, and secondary schools with particular focus on classroom management, school violence, school safety, educational law and other critical social issues.

ESE 6256   **Problems in Curriculum Instruction: Secondary (1-3)**
For teachers, supervisors, and administrators. Curricular and instructional problems of the secondary school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.

ESE 6906   **Independent Study: Secondary Education (1-6)**

Independent study in which students must have a contract with an instructor.

EVR 5956   **Methods of Sustainable Development (3)**
Sustainable development includes preservation of natural resources, aspects of social justice and preservation of communities while pursuing economic growth. This course focuses on sustainable development theory, especially at the international level.

EVR 6072   **Florida Springs (3)**
This course introduces students to the relationship between groundwater systems and Florida springs. It will examine human activities that threaten springs as well as the struggle to develop policy initiatives to protect and restore the state's springs.

EVR 6101   **Geomorphology for Environmental Scientists (3)**
Course will explore the evolution of landscapes, natural processes that alter Earth's surface, and rates of change in the surficial environment. The course will emphasize topics relevant to environmental scientists in Florida - esp. soils, karst, & coasts.

EVR 6115   **Global Climate Change (3)**
This course examines physical processes of global climate change.

EVR 6116   **Coastal Hazards and Resilience (3)**
Vulnerability to natural hazards and the effects of climate change, including sea level rise has greatly increased. This course examines the vulnerability of coastal communities and strategies for adaptation and resilience.

EVR 6216   **Advances in Water Quality Policy and Management (3)**
Conceptual structure and practical implementation of U.S. watershed-based water quality regulations and policies. Practical application of scientific information and quantitative methods in management/policy decisions for water quality protection.

EVR 6320   **Environmental Management (3)**
This course introduces the students to environmental management from technical and non-technical perspectives. The major topics covered will be water and air quality, environmental sustainability, collaboration and building consensus.

EVR 6408   **Wildlife Ecology (3)**
Population ecology, animal behavior, food resources, habitat resources, wildlife diseases, predation, competition, wildlife and water, wildlife and soils, hunting and trapping, exotic wildlife, urban wildlife, and conservation.

EVR 6876   **Wetlands, People and Public Policy (3)**
This course begins with a review of the basic physical characteristics of wetlands, but the emphasis is upon human relationships with wetlands, past and present. Discussion of contemporary economic, legal and political issues associated with wetlands.

EVR 6908   **Environ Science, Policy And Mgmt Independent Study (1-3)**
The courses offered under Independent Study will provide students with a greater range of more detailed information about Environmental Science, Policy, Ethics, Economics, Law and Management.

EVR 6921   **Scholarly Presentation of Environmental Research (1-2)**
Discussion and practice in methods of writing, presenting, and defending cross-disciplinary environmental research. Written and oral assignments on communicating research objectives, methods, results, theory, and analysis of policy relevance.

EVR 6922   **ESP Capstone Seminar (3)**
A capstone graduate course that integrates issues related to science, policy and management in making decisions. Each semester, the program selects an environmental issue to serve as a case study. Some anticipated themes include global warming, water quantity and quality, air pollution and restoration.

EVR 6930   **Research Colloquium in Environmental Science and Policy (1)**
Scholarly presentations by invited academic researchers and leading policy decision-makers.

EVR 6931   **Environmental Soils, Water and Land Use (3)**
This course gives an overview of the relationships between soils, water, and land-use. Students will also be exposed to contemporary science-based and technological solutions used for environmental applications.

EVR 6934   **Grad Environ Sci, Policy & Mgmt Selected Topics (3)**
Selected topics, issues and problems in Environmental Science and Policy.

EVR 6936   **Seminar in Environmental Science (3)**
A seminar course that reviews a major theme or themes in environmental science that integrates knowledge and research from various scientific disciplines.

EVR 6937   **Seminar in Environmental Policy (3)**
Critical assessment of environmental policy and regulatory formulation, implementation, evaluation, and revision in the context of scientific, technological, institutional, political, social and economic factors; case studies of major U.S. policies.

EVR 6946   **Major Themes in Environmental Science (3)**
This is a seminar course that reviews major themes in environmental science that integrates knowledge and research from various scientific disciplines. This course adopts and implements an interdisciplinary and integrative approach.

EVR 6971   **Thesis: Master's (2-19)**

EVR 2001L   **Environmental Science Lab (1)**
A laboratory course linking the human and physical/biological world. The lab will develop an understanding of population and resource interactions and complement the lecture course. Field trips.

EVT 6971   **Thesis: Masters/Educational Specialist (2-19)**

EXP 6608   **Cognitive Psychology (3)**

A survey of the research and theory dealing with higher memory, language, and the higher mental processes. Core requirement for all graduate students in Psychology.

EXP 4204C   Perception (3)
Topics include sensory and physiological bases of perception and how people process relevant information in their environments.

EXP 4680C   Cognitive Psychology (3)
Survey of methods, empirical findings, and theoretical interpretations of human learning, information processing, verbal learning, and judgment and decision-making.

FIL 3427C   Beginning Film (3)
Intermediate problems in film with emphasis on the exploration of materials and media and the development of individual concepts.

FIL 4433C   Advanced Film (3)
More advanced projects in filmmaking to further develop works both technically and conceptually.

FIL 5469C   Cinematography (4)
Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions.

FIN 5006   MBA Essentials: Finance (0)
The role of the finance within the corporation; financial statement analysis; discounted cash flow analysis; valuation of financial assets; and financial planning.

FIN 6246   Advanced Money and Capital Markets (3)
The study of the role of financial markets, instruments, and institutions in the economy. It includes the study of flow of funds, interest rate determination, and the pricing of capital assets.

FIN 6326   Bank Management (3)
Theory, policy and practice of commercial bank management with emphasis on strategic issues and decision making in an expanding financial services environment.

FIN 6406   Financial Management (2-3)
The study of processes, decision structures, and institutional arrangements concerned with the acquisition and utilization of funds by a firm. The course includes the management of the asset and liability structures of the firm under both certainty and uncertainty.

FIN 6416   Advanced Financial Management (3)
A synthesis of the theory and the practice of corporate finance. Particular attention is given to the role of the agency problems and agency cost in explaining why the observed consequences of financial decisions often deviate from those predicted by traditional theory.

FIN 6418   Advanced Financial Management (3)

This course is designed to provide the student with an understanding of short-term financial management which includes decision making concerning sources and uses of cash flows to support short-term operations.

FIN 6425   **Financial Policy (3)**
A case study approach to financial policy and strategy with emphasis on the firm's major financial decisions.

FIN 6427   **Corporate Financial Planning (3)**
This course is an introduction to financial planning methods. It will provide techniques to forecast the financial statements of a company, capital budgeting, cash flow analysis and valuation. It is a Finance application class for MBA students.

FIN 6455   **Financial Modeling and Analytics (3)**
The course offers advanced knowledge of finance and skills of using Excel for financial modeling and financial analysis. Finance concepts will be covered in class, and then modeled and analyzed in Excel.

FIN 6465   **Financial Statement Analysis (3)**
This course provides an understanding of the relationship between financial statements produced in accordance with generally accepted accounting principles (GAAP) and the information such statements contain that is useful to stakeholders.

FIN 6466   **Financial Analysis (2)**
Financial analysis focuses on how information disseminated that is by a company is used by such stakeholders as managers, stockholders, creditors, and financial analysts when making decisions concerning the firm's value.

FIN 6515   **Investments (3)**
An examination of the risks and returns of alternative investment media within the framework of various valuation models. Special attention is given to the investment process and the criteria for investment decisions.

FIN 6537   **Financial Options & Futures (3)**
This course covers financial futures and options markets and the fundamental properties and the pricing principles of these instruments. In addition, hedging and risk management strategies are covered in the course.

FIN 6595   **The Efficiency of Financial Markets (3)**
Students develop an understanding of the data and computer technology resources available for use in analyzing financial markets. Traditional financial models and theories are examined and evaluated via statistical and regression analysis.

FIN 6605   **International Financial Management (3)**
The course provides a foundation for the understanding of financial management of international business. The subjects covered relate to: international finance, multinational business finance, and financial market theory.

FIN 6804   **Theory of Finance (3)**

A systematic and rigorous course in the theory of finance. Topics will include the theory of choice and the allocation of financial resources, the theory of optimal investment decisions and the theory of risk and uncertainty in financial decisions. It will also cover the theoretical concepts underlying financing decisions and the cost of capital.

FIN 6906   **Independent Study (VAR)**
Students must have a contract with an instructor.

FIN 6915   **Directed Research (VAR)**

FIN 6934   **Selected Topics in Finance (1-4)**
Depending upon the scope and magnitude of the work required. Includes special lecture series.

FLE 5145   **Language Principles, Acquisition and Teaching (3)**
Restricted to Education majors and not repeatable for credit. Overview of applied SLA theory and components of language. Methods & techniques of comprehensible instruction and the development of oral proficiency and literacy skills for LEP children.

FLE 5291   **Technology in the Foreign Language Classroom (3)**
This course is intended to prepare foreign/second language teachers to provide pedagogically sound and technologically enhanced instruction for foreign language and second language students in the K-16 realm. Basic computer literacy is recommended.

FLE 5313   **Methods of Teaching Foreign Language and ESOL in the Elementary School (3)**
This course is designed to provide training in the theory and methods of teaching foreign languages and ESOL in the elementary school (FLES) to both pre- and in-service teachers.

FLE 5331   **Methods of Teaching Foreign Language and ESOL in the Secondary School (3)**
This course provides for the development of knowledge and skills necessary to prepare students to assume roles as foreign language (FL) and ESOL teachers at the secondary school level. It represents the second part of a sequence of methods courses.

FLE 5345   **Teaching English Language Learners K-12 (3)**
This course is restricted to Education majors and is not repeatable for credit. It is designed to prepare preprofessional teachers to provide linguistically and culturally appropriate instruction, assessment, and learning opportunities for LEP students.

FLE 5366   **ESOL Education in Content Areas (3)**
Enables participants to meet the special linguistic & cultural educational needs of limited English proficient (LEP) students in content area classes. Provides a theoretical & practical foundation for ESOL competencies in courses include ESOL infusion.

FLE 5895   **Dual Language Education (3)**
This course is for teachers who are interested in bilingual education. The aim is to deconstruct the philosophical, theoretical, political, social and educational underpinning of instruction (K-16) when it is delivered through two languages.

FLE 5946   **Practicum in Foreign Language/ESOL Teaching (3)**
This course prepares students for their internship by providing a structured pre-internship experience while meeting regularly in a university class. Opportunity to see teachers in action.

FLE 6167   **Cross-Cultural Issues in Teaching ESOL (3)**
Designed for K-12 & adult educ environment to help participants develop awareness & understanding of the major cultures represented by the different language groups within the State of Florida (teach cultural awareness & cross-cultural understanding).

FLE 6639   **Second Language Reading and Literacy (3)**
Explores theoretical issues in L2 language and literacy learning from a sociocultural perspective and covers seminal perspectives on L2 language development.

FLE 6665   **Current Trends in Secondary Foreign Language Education (3)**
Designed for experienced classroom teachers, theoretical and practical implications of recent programs and methodology. Instructional practices in the teaching of foreign languages. Individual projects.

FLE 6829   **Graduate Instruction Methods (1-4)**
Special course to be used primarily for the training of graduate teaching assistants.

FLE 6906   **Independent Study in Foreign Language Education (1-6)**
Independent Study in which students must have a contract with an instructor. Rpt. S/U

FLE 6932   **Selected Topics in Second Language Acquisition (3)**
This course would provide a flexible format to offer specialized courses in second language acquisition not available in the regular curriculum. This would allow faculty to address issues at the frontiers of the field in second language acquisition. Repeat as topics vary

FLE 6947   **Internship for Secondary Education in Foreign Language (6)**
 Students will work with a cooperating teacher and university supervisor to complete their internship requirements in a classroom setting assigned by the university.

FOL 5906   **Directed Study (1-3)**

FOW 6805   **Bibliography (1)**
Research methods. Includes familiarity with major journals and bibliographies, with a practicum.

FRE 5425   **Advanced Written Expression (3)**
Course is designed to give advanced training in free composition in French.

FRE 5566   **Contemporary France (3)**
An advanced course in French civilization and culture including a study of recent social, artistic and political trends as well as various current intellectual movements. Text and discussions in French.

FRE 6910   **Directed Research (1-19)**

FRE 6971   **Thesis: Master's (2-19)**

FRW 5222   **Classical Prose and Poetry (3)**
Emphasis on Malherbe, Descartes, Pascal, La Fontaine, and Boileau.

FRW 5226   **20th Century Poetry and Theatre (3)**
Valery, Claudel, Anouilh, Motherland, Sartre, Ionesco.

FRW 5286   **The 20th Century Novel (3)**
Proust, Gide, Mauriac, Malraux, Camus, Robbe-Grillet.

FRW 5314   **Classical Drama (3)**
Corneille, Moliere, and Racine.

FRW 5415   **Literature of the Middle Ages (3)**
Major genres, including epics, Arthurian romances, drama and lyric poetry. Reading in modern French translation.

FRW 5425   **Literature of the Renaissance (3)**
A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.

FRW 5445   **18th Century Literature (3)**
The classical tradition and the new currents of thought in the Age of Enlightenment.

FRW 5535   **Romanticism and Early Realism (3)**
A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac.

FRW 5556   **Naturalism and Realism (3)**
A detailed study of realism and naturalism with emphasis on Flaubert, Zola, les Goncourt, Maupassant, and Daudet.

FRW 5745   **French Literature of Quebec (3)**
Overview of the main representative literary works in French from Quebec in all genres (poetry, drama, novel, short story) as well as a survey of the main traits of Quebec history & culture. Open to non-majors. Not repeatable for credit. Taught in French.

FRW 5755   **African and Caribbean Literature (3)**
An overview of the main representative literary works in French from North and SubSahara Africa as well as the Caribbean. Open to non-majors and not repeatable for credit. Course taught in French.

FRW 5829   **An Introduction to Modern French Literary Criticism (3)**
A graduate elective 3 credit course entirely taught in French, which offers a survey of the main trends and methods in 20th Century literary criticism, the French having been at the avant-garde of the field.

FRW 5934   **Selected Topics (1-3)**
Study of an author, movement or theme.

FRW 6405   **Old French (3)**
An introduction to the Old French language and literature. Readings from representative texts.

GEA 6195   **Seminar in Advanced Regional Geography (3)**
Analytic study of a selected region of the world.

GEA 6215   **Seminar in North American Geography (3)**
Advanced survey of historical and contemporary issues in North American geography including: west and non-west exchange, revolutionary transformation, nation-building, regional disparities, and continental relations among states.

GEA 6406   **Seminar in Latin American and Caribbean Geography (3)**
Readings and discussions organized around an examination of regional and systematic analysis of selected topics of Latin American and Caribbean geography. Emphasis is on combining physical and cultural analysis of this region.

GEA 6504   **Seminar in European Geography (3)**
Readings and discussions organized around an examination of regional and systematic analysis of selected topics of European Geography. Emphasis is on combining physical and cultural analysis of this region.

GEA 6745   **Asian Geography Seminar (3)**
Analysis of regional divisions and spatial variations within Asia. Examines the significance of Asia in the global context. Focus on political, economic, cultural, and historical geographies, including development, environment, religion, and gender.

GEB 6118   **Business Enterprise (3)**
The course applies knowledge in finance, marketing, management and accounting in determining how a business enterprise is formed and operated. The course will emphasize pre-business feasibility studies, start-up, management and succession or termination.

GEB 6215   **Communication Skills for Managers (2)**
One of six Advanced Tools courses required for the MBA, Communication Skills for Managers focuses on developing the oral and written communication and presentation skills essential to projecting a professional image and influencing others.

GEB 6224   **Improvisation in Business Organizations (3)**
Facilitates learning and skill building based on organization studies research on business improvisation. Students will participate in a variety of experiential exercises and cases from organizational behavior and theatrical improvisation.

GEB 6226   **Leadership Speaker Series (1)**

This course addresses a range of issues that impact how leaders craft strategies, create commitment, communicate effectively, delegate, and lead by example. A diverse group of individuals will deliver thought-provoking presentations and lead discussions.

GEB 6228 **Management through Constructive Persuasion (3)**
Effective persuasion is the ability to deliver a message that leads to others' support, which includes consensus building, motivating and convincing others. The course explores persuasion methods and applies them in a contemporary business setting.

GEB 6255 **Advanced Negotiation (3)**
The purpose of this course is to highly develop student knowledge and skills in the practical application of basic and advanced business negotiation process and strategy.

GEB 6265 **Advanced Facilitation (3)**
The purpose of this course is to teach students how to use advanced facilitation strategies and skills to prevent, manage, and resolve common business group dynamic problems, as well as to master the art of effective work team communication in a corporate environment.

GEB 6368 **Global Business Environment (3)**
An overview of how international business operates in the changing global environment. The course looks at emerging patterns of international trade, foreign investment and international competitiveness for both large corporations and small firms.

GEB 6445 **Social, Ethical, Legal Systems (2)**
A study of the influence of social, cultural, legal, and political environment of institutional behavior, including the changing nature of the business system, the public policy process, corporate power, legitimacy and managerial autonomy, and organizational reactions to environmental forces.

GEB 6457 **Ethics, Law and Sustainable Business Practices (3)**
Examines ethical and legal responsibilities of business for triple bottom line performance of prosperity, social justice, and concern for the natural environment.

GEB 6458 **Managing Global Sustainability (3)**
A course that focuses primarily on the business perspective of business sustainability so that students can better understand the business rationale for sustainability. The course will examine business as it addresses the environment and sustainability.

GEB 6527 **Lean Six Sigma (3)**
In this course students gain experience with process improvement from a Lean and Six Sigma perspective. The course shows Lean as a management philosophy to eliminate waste, and Six Sigma as tools and ideas to reduce variation and improving quality.

GEB 6865 **Business Problems Analysis (3)**
This is a capstone class that is delivered using case method. Business cases can be written or life. The delivery of the class can include but not limited to book reports, discussions, debates and lecture.

GEB 6895   **Integrated Business Applications (3-4)**
Part I of advanced study of business decision-making processes under conditions of risk and uncertainty, including integrating analysis and policy formation at the general management level.

GEB 6896   **Integrated Business Applications II (3)**
Part II of advanced study of business decision-making processes under conditions of risk and uncertainty, including integrating analysis and policy formation at the general management level.

GEB 6898   **MBA Capstone for Analytics, Compliance & Cybersecurity (3)**
An MBA capstone course that combines case discussions of real world situations in the areas of analytics, cybersecurity and risk management with a substantial individual project.

GEB 6930   **Selected Topics (1-3)**
The content and organization of this course will vary depending on student demand and faculty interest.

GEO 6058   **Geographic Literature and History (3)**
The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals.

GEO 6113   **Qualitative Research Methods (3)**
This course explores a variety of qualitative research methods utilized by scholars in the social sciences and environmental studies, to include interviews, mapping, participant observation, surveys, visual techniques and document and archival analysis.

GEO 6115   **Advanced Field Techniques (3)**
Field examination of one region. Students will complete field work in human and physical geography in a selected area.

GEO 6116   **Perspectives on Environmental Thought (3)**
Analysis of the evolution of the major schools of environmental thought from antiquity to present-day green analysis, deep ecology, ecofeminism, and post-modern ecology.

GEO 6119   **Geographical Techniques and Methodology (3)**
Analytic study of a technique or investigation into an aspect of methodology.

GEO 6166   **Multivariate Statistical Analysis (3)**
Examination of advanced statistical approaches used by geographers. Descriptive, spatial and inferential statistics and multi-variate analysis are highlighted**.**

GEO 6215   **Geomorphology Seminar (3)**
An advanced examination of geomorphic processes and landforms with an emphasis placed on concepts related to the formation and evolution of landscapes on a variety of scales.

GEO 6217   **Karst Geomorphology (3)**
An in-depth examination of the geomorphic aspects of karst landforms. The objectives, methods and results of karst geomorphic studies in which both field and laboratory analysis have been applied to geomorphic problems are reviewed.

GEO 6255   **Weather, Climate, and Society (3)**
This course explores the societal impacts of weather as well as the human impact on weather and climate. Students lead and participate in discussions on topics such as weather hazards, extreme temperature and human physiology, historical civilization and extreme climate, economic value of forecasts, weather modification, urbanization and other land use change, anthropogenic aerosols, past and future climates.

GEO 6263   **Soils Seminar (3)**
Examination of how earth systems influence soil formation and variation. Details analysis of soils climosequences, biosequences, toposequences, lithosequences, chronosequences, and anthrosequences.

GEO 6286   **Advances in Water Resources (3)**
Water resources policies are viewed from theoretical and practical perspectives focusing on management strategies in different physical and human environments.

GEO 6288   **Hydrological Systems (3)**
A systematic approach to hydrology using the drainage basin as the fundamental unit of analysis is used to explore form and process, while modeling stream flows.

GEO 6345   **Technological Hazards and Environmental Justice (3)**
Examination of theories, debates, methods, and models that improve our understanding of human vulnerability to technological hazards and risks, with emphasis on issues of fairness and equity in the distribution and impact of hazards.

GEO 6347   **Natural Hazards (3)**
Analysis of natural hazards integrating principles of physical, social, economic, political, and technical forces that affect extreme geophysical events.

GEO 6428   **Seminar in Advanced Human Geography (3)**
Analytic study of a problem selected from aspects of the human landscape (urban, political, economic, population, settlement).

GEO 6475   **Political Geography Seminar (3)**
Advanced investigation of geopolitical issues including: the human construction of territoriality, ethnic relations, the making of nations and states, the geopolitics of localities, and environmental policy making.

GEO 6545   **Economic Geography Seminar (3)**
An intensive examination of selected issues in economic geography including: regional development and decline; spatial labor market trends; business locational analysis; and comparative economic policy.

GEO 6605   **Contemporary Urban Issues (3)**

Advanced survey of urban issues such as: industrial restructuring and urban development, inner-city ethnic relations, the geopolitics of urban governance, and urban culture.

GEO 6627   **Site Feasibility Analysis (3)**
A project-oriented geographic examination of urban real estate development and site feasibility practices. Hands-on course including concepts of real estate development patterns, urban growth, and site specific factors related to feasibility of specific developments.

GEO 6704   **Advanced Transportation Geography (3)**
Review of transportation issues and analysis, focusing on modeling and planning for flows of goods and people. Provides a hands-on approach to use of GIS for such analysis.

GEO 6908   **Independent Study (1-19)**
Independent study in which students must have a contract with an instructor.

GEO 6918   **Directed Research (1-19)**

GEO 6944   **Internship in Geography (3)**
The internship in Geography is designed to provide students the opportunity to work in an appropriate governmental agency to gain practical field experience**.**

GEO 6947   **Directed Teaching (1-6)**

GEO 6970   **Geographic Research Design (3)**
This course stresses conducting geographic research within the scientific method. It includes both quantitative and qualitative research. Specific topics include sample design, data collection, oral presentations, written proposals and a thesis.

GEO 6971   **Thesis: Master's (2-19)**

GEO 2200L   **Introduction to Physical Geography Lab (1)**
Laboratory portion of Introduction to Physical Geography (GEO 2200).

GEO 3164C   **Research Methods in Geography (3)**
Statistical analysis in geographic research.

GEO 4114C   **Geographic Techniques and Methodology (3)**
Selected topics in various geographic techniques and methodologies and their application.

GEO 4204C   **Topics in Physical Geography (3)**
Intensive study of a topic selected from physical geography.

GEO 6209C   **Physical Geography Seminar (3)**
Analytic study of one or more topics from physical geography. Selected problems may include hydrology, physiography, meteorology, climatology, soils, vegetation, etc.

GER 5845   **History of the German Language (3)**
A diachronic approach to the study of the German language. The course traces the history and development of the language from Indo-European through Germanic, Old, Middle, and New High German.

GER 6060   **German for Reading (3)**
Designed to provide a reading ability in German that will support research in other disciplines.

GER 6908   **Independent Study (1-19)**
Independent study in which student must have a contract with an instructor.

GEW 5606   **Faust (3)**
Sources, form, content, and literary significance of Urfaust and Faust.

GEW 5934   **Selected Topics (1-3)**
Study of an author, movement or theme.

GEY 5476   **Program Evaluation in an Aging Society (3)**
Students develop knowledge of the purposes of evaluation research and the approaches and methodologies necessary to evaluation aging services programs and organizations.

GEY 5501   **Health Care Operations in Long Term Care (3)**
Addresses the health care operations of long term care facilities with a special emphasis on nursing homes and assisted living facilities Specifics include leadership management of people resources physical plant and quality improvement.

GEY 5504   **Assisted Living Facility Management (3)**
The course covers the material for students to sit for and pass the State of Florida Assisted Living Core examination to become a licensed assisted living administrator.

GEY 5620   **Sociological Aspects Of Aging (3)**
Examines, within a sociological frame of reference, the interrelationships between the aged (or aging) and the structure and function of the social system and its major institutionalized subsystems.

GEY 5630   **Economics and Aging (3)**
Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security and other support systems.

GEY 5642   **Perspectives on Death and Dying (3)**
Study of the various psychological, medical, legal, and religious problems caused by dying and death, and how individuals and groups have responded in the past and present.

GEY 6206   **Family Caregiving in Aging and Chronic Illness (3)**

The course will address the mental and physical health consequences, cultural diversity issues, and stress process models of caregiving, as well as clinical and public policy interventions to assist family caregivers of adults with chronic illness.

GEY 6221   **Ethical and Legal Issues in Aging (3)**
A consideration of major ethical and legal issues in aging and their implications for policies, priorities, and services.

GEY 6222   **Elder Abuse Assessment and Intervention (3)**
The course provides an overview of elder abuse assessment and intervention, essential knowledge for all professionals who work with or encounter older adults.

GEY 6230   **Principles of Health Care Risk Management and Patient Safety (3)**
This course provides an overview of the various aspects of health care risk management and how the risk varies by health care setting. Case studies and exercises provide students with "real world" situations they are likely to encounter.

GEY 6321   **Gerontological Case Management (3)**
This course examines the function of case management in meeting the care needs of the older adult. Elements of the case management process as well as ethical and legal issues in case management are covered. Not repeatable; not restricted to majors.

GEY 6325   **Social Policy and Planning for Gerontologists (3)**
This course is designed to provide an empirical and analytical base for understanding the major issues and trends involved in existing and proposed programs and services in the field of aging at local, state, and federal levels.

GEY 6362   **Geriatric Interdisciplinary Team Training (3)**
This course addresses the importance of interdisciplinary teams in today's health care and social service delivery systems for older adults. Issues include formation of teams, critical issues of aging, team care plans, and monitoring team functioning.

GEY 6402   **Statistical Methods in Aging Research (3)**
The major goal of this course is to deliver fundamental quantitative research concepts that are useful in aging research. Other goals include hands-on exposure to secondary data analysis.

GEY 6403   **Multivariate Statistical Analysis for Aging Research (3)**
This course will give students experience with many of today's advanced statistical techniques. Primary emphasis will be on the description of these methods of analysis, situations in which their application is most appropriate, and hands-on experience.

GEY 6450   **Gerontological Research and Planning (3)**
Social research and planning methods in the field of gerontology. Directed to the consumers of research findings-person whose positions call for the ability to interpret, evaluate, and apply the findings produced by others.

GEY 6461   **Retirement and Long Term Care Housing for Elderly (3)**

This course will focus on population trends, housing and environment theory, need and availability of affordable housing with services, adapting homes for elders, and a number of age-related housing solutions. Not restricted to majors; not repeatable.

GEY 6500   **Seminar in Principles of Administration (3)**
This course deals with management problems and practices in the administration of institutions in the field of aging. Consideration is given to federal and state legislation, the management of people, and fiscal management.

GEY 6600   **Human Development and Aging (3)**
Normal aging, change and basic psychological processes will be examined from a human development perspective. Emphasis will be on middle aged and older adults in relation to Life Cycle Changes and Counseling Approaches.

GEY 6607   **Alzheimer's Disease Management (3)**
This course will provide instruction on effective approaches for providing care to persons with Alzheimer's disease and related disorders, successful behavior management, and operating a dementia program. Not restricted to majors; not repeatable.

GEY 6613   **Physical Change and Aging (3)**
Common, normal and pathological physical changes associated with aging will be discussed as they affect behavior. Aspects of physical and mental illness and pharmacology with gerontological relevance will be surveyed.

GEY 6614   **Aging and Mental Disorders (3)**
Examines mental disorders among older adults and special problems faced in geriatric assessment and intervention. Reviews DSM criteria and their application to older patients, including case studies of geriatric patients with complex comorbidities

GEY 6616   **Mental Health Assessment and Intervention with Older Adults (3)**
Designed to provide the mental health counselor with a basic understanding of evaluation principles and the application of assessment approaches to older adults.

GEY 6617   **Gerontological Counseling Theories and Practice (3)**
Examination of mental health treatment modalities and approaches to counseling with older adults. Personality theories and their relationship to counseling will be included emphasizing the development of a treatment plan through the integration of assessment data.

GEY 6618   **Gerontological Group and Family Counseling (3)**
An advanced course directed at clinical practice with older adults. Appropriate techniques and skills will be integrated with models of psychotherapy, counseling, and personality development. Primary focus will be on intervention with groups, families, and couples.

GEY 6626   **Health, Ethnicity, and Aging (3)**

This course addresses aging among diverse racial and ethnic populations, cultural competency and health disparities inaccess to and utilization of services among persons from diverse racial and ethnic populations. Not restricted to majors; not repeatable.

GEY 6627   Women and Aging (3)

The purpose of this course is to examine older women's lives from a feminist perspective. Factors such as longer life expectancy and gender differences in health trajectories result in a disproportionate share of older women in the United States.

GEY 6643   End of Life Care for Dementia Patients (3)

This course addresses progressive degenerative dementias: Alzheimer's disease, dementia with Lewy bodies, vascular and fronto-temporal dementia, and will address treatment, medical, ethical and legal questions. Not restricted to majors. Not repeatable.

GEY 6646   Gerontological Issues and Concepts (3)

This course presents the concepts, theories, and issues relevant to our aging society. Emphasis will be placed on generalized knowledge of the aging process, and implications for the individual, family, government, and society in general. Students will engage in spirited debate and gain important background that will prepare them for their other graduate work in Gerontology. Social Work, and related fields.

GEY 6901   Directed Reading (1-4)

A reading program of selected topics under the supervision of a faculty member.

GEY 6910   Directed Research (1-4)

GEY 6934   Special Topics in Gerontology (3)

Courses on topics such as preretirement, mental health, human services organization, and senior center administration.

GEY 6940   Field Placement (1-6)

An internship in an agency or organization engaged in planning or administering programs for older people of in providing direct services for older people.

GEY 6941   Field Placement in Mental Health (1-6)

A highly structured supervised counseling experience providing mental health services to older adults.

GEY 6971   Master's Thesis (3-6)

The Master's Thesis for the MA in Gerontology is a research project designed to result in an original research product.

GIS 5049   GIS for Non-Majors (3)

An introduction to the concepts underlying digital thematic mapping and geographical information systems (GIS) for non-geography majors and non-geography graduate students.

GIS 5075   Global Positioning Systems (3)

Examination of the theory, operation and application of Global Positioning Systems (GPS).

GIS 6039   **Remote Sensing Seminar (3)**
Analytic study of selected topics in remote sensing. Discussions around topics include data acquisition, sensor systems, multispectral and radar image analysis, change detection, and integration of remote sensing with GIS.

GIS 6100   **Advanced Geographic Information Systems (3)**
Spatial problem solving utilizing GIS mapping and statistical methods. The course is designed to give students hands-on experience in using computerized techniques for geographic analysis.

GIS 6103   **Programming for GIS (3)**
Examination of the concepts and techniques for customization of Geographical Information Systems (GIS) using object-oriented programming.

GIS 6112   **Spatial Database Development (3)**
Development and management of spatial data for use in a Geographic Information System (GIS), including creating, editing, modifying and validating spatial data.

GIS 6306   **Environmental Applications of Geographic Information Systems (3)**
Examination of GIS applications in agriculture, forestry, wildlife management, biodiversity conservation, environmental assessment, water resources, and pollution modeling. Use of advanced GIS analysis techniques relevant to the specific applications.

GIS 6307   **GIS Seminar (3)**
Analytic study of selected topics in GIS. The course will familiarize students with case studies involving GIS applications in environmental studies, coastal modeling, and urban planning.

GIS 6355   **Water Resources Applications of GIS (3)**
Examination of GIS applications in water resources, including watershed analysis, pollution modeling, and water resources modeling. Use of advanced GIS analysis techniques relevant to the specific applications.

GIS 2010C   **Map Interpretation (3)**
Analysis and synthesis of various types of maps and map projections.

GIS 4035C   **Remote Sensing of the Environment (3)**
Analysis of satellite images and aerial photographs for studies of the environment.

GIS 4043C   **Geographic Information Systems (3)**
An introduction to the concepts underlying Geographical Information Systems, with an emphasis on analytical capabilities of such systems in both raster and vector domains**.**

GIS 4300L   **Environmental Modeling with GIS Laboratory (1)**

Laboratory exercises linked to the use of geographic information systems (GIS) for environmental modeling associated with the Environmental Modeling with GIS lecture course.

GIS 4302C   **GIS for Sustainability (4)**
Focus on the application of GIS for sustainable planning and development; policymakers & planning agencies increasingly use spatial data/methods to aid in their decisions; this course is relevant to anyone interested in issues for sustainable development.

GIS 5034C   **Introduction to Remote Sensing (3)**
An introduction to the basic concepts, principles and practices of photogrammetry and remote sensing and their applications in natural resource management, measurements of structural parameters, and environmental monitoring.

GIS 6038C   **Remote Sensing (3)**
Study of digital image processing techniques. Topics include filtering techniques, geometric and radiometric normalization, and classification algorithms with emphasis on developing.

GLY 5786   **Geological Field Excursion (2)**
Lectures and 2-3 week field excursion to study regional geology, structure and lithogenesis of geologically complex terrain. Mapping and outcrop description techniques are emphasized. Destination of trip varies. Trip requires camping and vigorous physical activity. Lec.-field trip.

GLY 5865   **Statistical Models in Geology (3)**
Application of statistical methods to geological problems. Emphasis on sampling plans, nature of geologic distributions, and application of analyses of variance to solving geological problems. Lec.

GLY 5932   **Selected Topics in Geology (1-4)**
Each topic is a course under the direction of a faculty member. All areas of geology included.

GLY 6075   **Greenhouse-Icehouse Earth (3)**
This course is designed to investigate the differences between green- and icehouse climates through an examination of both the data employed to reconstruct past climates and the impact these changes have had on the Earth System.

GLY 6246   **General Geochemistry (3)**
Age, formation and evolution of the earth with application of basic chemical concepts and processes that govern the distribution of elements in geologic environments.

GLY 6255   **Tracer Geochemistry (3)**
The use of trace elements and isotopic ratios as tools for understanding geologic processes. The collection and interpretation of trace element/isotopic data. Lecture/Discussion/Lab.

GLY 6492   **Hydrogeology Internship Project (3)**

Internship project in applied hydrogeology. Required for hydrogeology-internship MS program (minimum 3 hours).

GLY 6557 Facies Models (3)
Characterization of facies models for stratigraphic sequences representing terrestrial, transitional and marine sedimentary environments. Emphasis on textures, structures and composition of strata and their environmental interpretation in the rock record.

GLY 6573 Fluvial Hydrology and Geomorphology (3)
The course covers the mechanics of open channel flows, primarily to understand the potential energy available to do work, and the geomorphic responses to work, including channel initiation, sediment transport, and channel adjustment.

GLY 6739 Selected Topics in Geology (1-4)
Each topic is a course directed by a faculty member. All areas of geology are included.

GLY 6824 Ecohydrology (3)
This course covers hydrological processes along the atmosphere-plant-soil continuum and the ways in which hydrological processes control ecological structure and function.

GLY 6828 Ground-Water Geochemistry (3)
Chemical behavior of ground water. Includes interaction of water with aquifer materials, chemical effects of waste disposal, use of chemical tracers, and transport of hazardous chemicals. Methods of sampling and data interpretation are emphasized. Lec.

GLY 6836 Numerical Modeling of Hydrogeologic Systems (3)
An advanced graduate course in numerical modeling of hydrogeologic systems. Topics include flow and mass transport, modeling, model calibration, model assessment. Current public domain computer codes are used, including MODFLOW, MT3D, MODPATH and LICODE.

GLY 6905 Independent Study (1-19)
Independent study in which student must have a contract with an instructor.

GLY 6910 Directed Research (1-19)

GLY 6971 Thesis: Master's (2-19)

GLY 2000L Essentials of Geology Laboratory (1)
Fundamental concepts and skills of modern geology, including rock and mineral identification, analysis of geologic maps, field analysis, and applications of computers in Geology.

GLY 2100L History of Life Laboratory (1)
Laboratory study of the history of life.

GLY 3104C Stratigraphy and Paleontology (4)

The study of "deep time", including how it is measured, how it is correlated over the Earth's surface, and how important physical, biologic, and chemical geologic processes have varied with time. Lec.-Lab.

GLY 3311C   **Mineralogy, Petrology, Geochemistry (4)**
Igneous and metamorphic rocks of modern and ancient tectonic environments. Rock-forming processes at plate margins and intraplate sites. Essentials of hand specimen and microscopic mineralogy. Required field trip. Lec-lab.

GLY 3402C   **Structural Geology and Tectonics (4)**
Plate tectonic theory and its implication re: the formation of structural features on outcrop and regional scales. Field and geophysical tools for structural analysis. Required field trip. Lec-Lab.

GLY 3552C   **Sedimentary Rocks and Processes (4)**
A lecture and laboratory class that discusses sedimentary processes, formation and classification of sedimentary rock, and the sedimentary rock record. Examination of the rock record to solve problems in sedimentary geology.

GLY 4324C   **Physical Volcanology (4)**
Physical volcanology explores the nature of volcanism on Earth and nearby planets. Topics in magma production and ascent, eruption dynamics, volcanic hazards, and volcano monitoring will be covered in lecture, laboratory, and independent exercises.

GLY 4554C   **Sedimentary Environments (4)**
A lecture lab course on principles of weathering, production, erosion, transport, and deposition on the earth's surface, and the resulting sedimentary environments. Morphologic and sedimentologic characteristics of major earth sedimentary environments are discussed, along with several field trips.

GLY 4720C   **Aqueous and Environmental Geochemistry (4)**
Physical, chemical and biological processes affecting fluids of the lithosphere, oceans and atmosphere. Water as a geologic medium and global entity. A systems approach. Lecture/Lab.

GLY 4822C   **Hydrogeology (4)**
Ground water flow systems, ground water geology, introduction to numerical and analytical models of ground water flow. Lec.-lab.-field trips.

GLY 6285C   **Analytical Techniques in Geology (3)**
Use and application of analytical methods including X-ray, atomic absorption, ICP/MS, TEM, SEM, and other geochemical techniques. Interpretation and statistical analysis of the data acquired. Lec/Lab.

GLY 6285L   **Properties of Earth Materials (3)**
Physical and chemical characteristics of geological materials and methods of analysis (petrography, microscopy, x-ray and electron beam analysis, elemental and isotopic geochemistry). For graduate students with no/limited geologic backgrounds.

GLY 6393C   **Modeling of Volcanic Processes (3)**
Introduce and explore the different modeling approaches used in modern volcanology and learn how to use and apply a model for a particular volcanic phenomena.

GLY 6395C   **Topics in Igneous and Metamorphic Petrology (2-4)**
Detailed study of selected igneous and/or metamorphic rock associations. Targeted sites will vary each semester. Modern methods of geochemical and mineralogical analysis (EPMA, ICP/DCP, XRD) will be employed. May be repeated up to 12 hrs. Lec/Lab.

GLY 6475C   **Principles of Applied Geophysics (4)**
Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to resource exploration, site investigation, and mineral deposits. Lec/Lab. Field trips.

GLY 6575C   **Coastal Sedimentation (3)**
Study of modern coastal sedimentary environments with emphasis on beaches, inlets, deltas, estuaries, and marshes. Analysis of sedimentary process and resulting morphology of sediment bodies. Lec/Lab. Field trips.

GLY 6827C   **Advanced Hydrogeology (4)**
Flow systems, analytical and numerical solutions to ground-water flow problems. Emphasis on the theoretical aspects of ground-water flow systems and their interaction with the geologic framework. Lec/Lab. Field trips.

GRA 2206C   **Typography (3)**
This foundational course explores the structure of letter forms and lettering. This course provides information about the importance of type in the context of graphic design and application for printed and electronic media.

GRA 4547L   **Advanced Graphic Design (3)**
A lab course that concentrates on multi-page and three dimensional designs. Continuation of stress on the design process, professional work, habits and market research and problem solving.

GRA 4930C   **Graphic Design: Senior Studio (3)**
Advanced problems in graphic design, advertising, and multimedia visual communication systems will be discussed and assigned as projects. Focus is upon efficient and effective use of technology in the design production process.

GRA 4955C   **Senior Project: Portfolio (3)**
This course covers the organization and presentation of a design/advertising/graphic portfolio and appropriate related materials. Emphasis is upon portfolio development, professional production, and self-promotional skills.

GRW 5905   **Directed Reading (1-4)**

GRW 5934   **Selected Topics (1-4)**
Study of an author, movement or theme.

HFT 3803C   **Restaurant Operations: Advanced Food & Beverage Management (3)**
Operations of food & beverage establishments as they relate to production, supervision, & cost control in restaurants & catering food svcs, with emphasis on hands-on planning, real time creative thinking, post-event analysis & understanding of financials.

HIS 5114   **Spanish Paleography I (3)**
The purpose of this course is to introduce students to the forms of writing used in early modern Spanish documents, and to introduce students to the sources, tools, and interpretative strategies used by historians who examine these records

HIS 5116   **Spanish Paleography II (3)**
This course provides advanced instruction in deciphering and comprehending the writing used in early-modern Spanish documents, and emphasizes the sources, tools, and interpretative strategies used by historians who examine these records.

HIS 6112   **Analysis of Historical Knowledge (3)**
A study of history as a form of knowledge with emphasis on explanatory models and the relationships of social science theory to the problems of historical analysis.

HIS 6908   **Independent Study (1-19)**
Independent study in which students must have a contract with an instructor.

HIS 6914   **Directed Research (1-19)**

HIS 6925   **Colloquium in History (3)**
Readings and discussions organized around an in-depth examination of selected topics within the fields. Emphasis of the course is on the review of historiographical, methodological, and interpretative advances as they affect the topics under study.

HIS 6935   **Graduate Reading Seminar in History (3)**
Introduce Graduate Students to a wide body of scholarship surrounding the topic of the course. Course topics and titles will vary.

HIS 6936   **Graduate Writing Seminar in History (2-4)**
Designed for Master's level students in their final year who are planning to write a Thesis or preparing a writing sample for their Ph.D. applications, and will train students in historical research practices.

HIS 6939   **Seminar in History (3)**
Research in selected topics within the fields selected by the instructor.

HIS 6971   **Thesis: Master's (2-19)**

HMG 6246   **Organizational Effectiveness in Hospitality (3)**
Examine organizational effectiveness methodologies including Continuous Quality Improvement, Six Sigma, Geri, Hospitality Leadership and Sustainability as they relate to human resources leadership and effectiveness in the hospitality industry.

HMG 6257   **Graduate Seminar in Hospitality Management (3)**

Examine the technical & managerial aspects in hospitality mgmt. Review & examine business departments of enterprises in assessing mgmt's goal of effective & efficient control. Discussions include energy conservation, waste mgmt & pollution control.

HMG 6259   Lodging Management (3)
This course examines research, critical issues, and trends in the lodging industry from a strategic perspective. This course is the application of research to practical and theoretical issues in the lodging industry.

HMG 6267   Restaurant and Foodservice Management (3)
This course allows students to apply the principles of management, analysis, and planning that they have learned in their prior required coursework to issues in multi-unit restaurant and foodservice operations.

HMG 6296   Strategic Mgmt & Competitive Strategy for Hospitality & Tourism (3)
The course is designed to provide students with an opportunity to develop and hone their analytical and interpretive skills using strategic management principles and practices in a hospitality & tourism business setting.

HMG 6335   Graduate Seminar in Club Management (3)
This seminar course allows students to apply the principles of management, analysis, and planning that they have learned in their prior required coursework to issues in club operations.

HMG 6446   Hospitality Information Systems (3)
The course focuses on managing information systems as a strategic asset to mold competitive strategies and change organizational management processes.

HMG 6467   Managerial Accounting and Finance for the Hospitality Industry (3)
Managerial accounting & financial management as practiced in the hospitality industry is covered. It applies principles of finance & accounting to decision-making that can be applied to the hospitality industry.

HMG 6477   Financial Management for the Hospitality Industry (3)
Managerial accounting & financial management as practiced in the hospitality industry is covered. It applies principles of finance & accounting to decision-making that can be applied to the hospitality industry.

HMG 6507   Hospitality & Tourism Information Systems & Technology (3)
Diverse facets of hospitality/tourism information systems and technology will be discussed. The role of Chief Information Officer (CIO), concept of open system, planning & managing e-commerce, global distribution systems, resources appl. software, etc.

HMG 6555   Electronic Marketing for Hospitality & Tourism (3)
Focusing on advanced electronic marketing theory, strategy, & techniques for the hospitality industry. Highlighting critical issues facing e-marketers in the industry, legal/ethical implications, database, consumer information & corporate e-responsibility.

HMG 6586   Research Methods & Statistics for Hospitality (3)

The objective of this course is to learn development of hospitality research projects and application of statistical data analysis tools.

HMG 6596 **Marketing Leadership for Hospitality & Tourism (3)**
Advanced marketing strategies and tactics known to be effective in the hospitality and tourism industry for developing sustainable competitive advantage such as strategic pricing, revenue management, customer loyalty programs, proven communication mixes.

HMG 6606 **Hospitality Law & Hotel Management Contracts (3)**
Functions of the law, legal environment, legal reasoning, and contract negotiation at a high level will be presented. Students will represent "Owners" or "Operators" in teams of two and conduct mock hotel management contract negotiations.

HMG 6756 **Graduate Seminar in Convention and Exhibition Mgmt. (3)**
This seminar course allows students to apply the principles of management, analysis, and planning that they have learned in their prior required coursework to issues in convention and exhibition management.

HMG 6908 **Independent Study (1-6)**
The Independent Study course in the School of Hotel & Restaurant Management permits a graduate student to enrich his/her interest in a particular area of specialized hospitality knowledge, research, and/or practice.

HMG 6916 **Masters Professional Project (3-6)**
This course is an independent study under the direction of a faculty supervisor. The project is designed to demonstrate analytical skills that students have acquired during their graduate education.

HMG 6938 **Special Topics in Hospitality (1-6)**
Special Topics course to be used for new courses to be taught as a trial basis or until approved, etc. All topics are to be selected by instructor and department Dean. This is a graduate level Special Topics course.

HMG 6946 **Graduate Internship (1-6)**
Coordinated hospitality training combines practical experience with integrated academic analysis of principles, theory, and standard practices applied to operational situations. Approval from Advisor/Dean to take graduate internship.

HMG 6972 **Master's Thesis (1-6)**
Independent Study under the direction of the thesis advisor. Individual discussion format & Comprehensive review of the thought process, hypothesis, development, research methodology, data collection, data analysis, etc. Restricted to Majors/repeatable.

HUM 6453 **Studies in American Arts and Letters I (3)**
Study of selected works dealing with the development of cultural patterns on the western frontiers and their effects on aesthetic judgment. From 1790 to 1890.

HUM 6456 **Studies in Latin American Arts and Letters (3)**
Analysis of selected Latin American works of art in their cultural context.

HUM 6465 **Studies in American Arts and Letters II (3)**
Examples from the arts and letters of the U.S.; analyses of their relationships to the concepts of progress and aesthetic judgment. From 1890 to present.

HUM 6475 **Studies in Contemporary Arts and Letters (3)**
Concentration on major artists and recent trends.

HUM 6493 **Studies in Classical Arts and Letters (3)**
Examples from the arts and letters of ancient Greece and their relationships to Aegean myths, religions, and philosophies. Classical Greek influences on later cultures.

HUM 6494 **Studies in Medieval Arts and Letters (3)**
Studies in medieval philosophies, visual arts, music, literature, and architecture and their interrelationships.

HUM 6495 **Studies in Renaissance Arts and Letters (3)**
Masterpieces and major artists of the Renaissance in Continental Europe and England.

HUM 6496 **Studies in Enlightenment Arts and Letters (3)**
Studies in painting, sculpture, music, literature, and architecture in relation to philosophical determinism and political absolutism.

HUM 6497 **Studies in Nineteenth Century Arts and Letters (3)**
Examples from the arts and letters of the nineteenth century, their relationship to philosophical, social, and historical developments, and to the arts and letters of the twentieth century.

HUM 6583 **Global Cinema and New Media to 1960 (3)**
Offers an advanced introduction to the first 65 years of international film history. This course explores aesthetic and narrative practices in various film genres, movements, and national cinemas.

HUM 6584 **Global Cinema and New Media since 1960 (3)**
Offers an advanced introduction to international film history after 1960. This course explores aesthetic and narrative practices in various film genres, movements, and national cinemas.

HUM 6585 **Film and New Media Auteurs (3)**
Films studied will be organized around a director or a movement. Cinema will be treated as a collaborative medium best approached from an interdisciplinary perspective, integrating visual, narrative, dramatic, and musical analysis. Course repeatable up to 6 times (total of 18 hours).

HUM 6586 **Film Theory (3)**

This course emphasizes methodological issues in the analysis of films as cultural texts. Theoretical approaches include formalism, structuralism, genre theory, feminist theory, psychoanalysis, Marxism, and queer theory.

HUM 6587   **National Cinemas (3)**
Course will explore key films, filmmakers, and cinematic techniques and approaches of selected national cinema styles from around the globe.

HUM 6588   **Themes and Genres in Film and New Media (3)**
Courses in "Themes and Genres" will focus on specific film styles, genres, and approaches such as horror, avant-garde cinema, and documentary. Students will explore the complex relationships between the formal properties of specific cinematic genres/style.

HUM 6801   **Theories and Methods of Cultural Studies (3)**
This course examines the relationship between the arts and society by introducing various approaches to the study of literature, art, and culture that are of contemporary relevance to graduate students in the liberal arts and humanities.

HUM 6814   **Introduction to Graduate Study (3)**
An introduction to graduate study in humanities and cultural studies. This course introduces incoming graduate students to the research interests of the departmental faculty and the program emphases, including textual analysis and analytical writing.

HUM 6815   **Research Seminar (3)**
A course emphasizing the practical aspects of research in the liberal arts including analyzing primary sources, assembling a bibliography, synthesizing secondary sources, and defining an argument. Topic varies.

HUM 6870   **Teaching Practicum in Humanities (1-3)**
Required for Teaching Assistants of Humanities courses. Workshops, meetings, and individual conferences treat topics related to teaching interdisciplinary courses focusing on the critical study of literature, music, and the arts. Credits do not count toward the MLA degree.

HUM 6909   **Independent Study (1-19)**
Independent study in which student must have a contract with an instructor.

HUM 6915   **Directed Research (1-19)**

HUM 6939   **Selected Topics in Humanities (1-3)**
Each topic is a course of study in a subject not covered by a regular course.

HUM 6940   **Internship in Humanities (1-3)**
A structured, out-of-class learning experience providing firs-hand, practical training in Humanities-related professional careers in the community.

HUM 6971   **Thesis: Masters (2-19)**

In consultation with an advisor, the student plans, organizes, and writes a thesis on a topic in interdisciplinary arts and ideas.

IDH 5956   **Honors Project (3)**
Advanced Honors Project. Repeatable up to 12 hours.

IDH 5975   **Honors Thesis (3)**
Advanced Honors Thesis. Repeatable up to 12 hours.

IDS 5177   **The Atelier, Its Management and History (3)**
This class will consider the history of printmaking and other forms of collaborative art production through the prism of the atelier and its management.

IDS 5178   **Problems in Museum Studies (3)**
This class is designed as both an academic and theoretical course to introduce students to the museum profession and develop critical thinking skills required to solve problems in the rapidly changing typography of museums. Students will develop managerial and administrative skills as they meet with and discuss the job descriptions of curators, educators, collection managers, marketing professionals, exhibit designers, registrars, and fundraisers.

IDS 5921   **Teaching Assistant Training (0)**
Instruction in course design, including delivery, methodology, policies, and teaching strategies and methods.

IDS 5922   **Preparing for College Teaching (0)**
The focus is on teaching college classes, and doing it well. Best practices in a number of topics related to course design and delivery will be examined. The goal is to prepare you for college teaching.

IDS 6207   **Renewable Transportation Fuels (3)**
The course will analyze the market status and prospects, the production technologies, the economics and finance, and the regulatory and environmental aspects of renewable transportation fuels with a focus on sustainable fuels from biomass and algae.

IDS 6208   **Renewable Power Portfolio (3)**
The course will analyze the market status and growth potential of the portfolio of renewable power sources, the production technologies, the economics/financing, infrastructure integration and smart grid issues, and regulatory and environmental aspects.

IDS 6210   **Bioresources for a Sustainable Future (3)**
Agricultural and biological resources (bioresources) for producing food, bio-based products, and renewable energy are presented and discussed along with their environmental and climate change impact using an integrated food-energy-water nexus approach.

IDS 6215   **Seminar in Global Sustainability (3)**

The purpose of this interdisciplinary seminar in sustainability is to broaden student's knowledge and understanding of global determinants and potential solutions to sustainability issues.

IDS 6233   Concepts and Principles of Sustainability (3)
This course discusses basic concepts and principles of sustainable development. It discusses systems thinking and different sustainability perspectives such as local/global and historical/future. Best practices will be analyzed through case studies.

IDS 6234   Systems Thinking: The Key to Sustainability (3)
The course develops the critical system thinking skills to solve sustainability challenges. It covers quantitative system analysis techniques including environmental impact assessment, life-cycle assessment, cost-benefit analysis and decision analysis.

IDS 6235   Economics and Finance for Sustainability (3)
The course provides sustainability practitioners an overview of how economics and finance enhance sustainability. The emphasis is on environmental economics and innovative finance; students learn how scarce natural resources can be optimally allocated.

IDS 6236   Sustainable Tourism Development: Principles & Practices (3)
Focuses on environmentally and socially responsible tourism strategies and innovations. Emphasizes establishing policies and management plans to identify and reduce the environmental impact created by tourism facilities and services.

IDS 6237   Ecotourism & Sustainable Tourism Mgmt Coastal/Marine Habitat (3)
Introduction to environmental management from technical and non-technical perspectives. The major topics covered will be water and air quality, environmental sustainability, collaboration, and building consensus.

IDS 6238   Communicating the Value of Sustainability (3)
Provides 1) an understanding of the challenges of communicating about sustainability; 2) a theoretical framework for analyzing these challenges; and 3) practice at applying that knowledge to their writing.

IDS 6245   Sustainable Water Resource Management: Doing More with Less (3)
This course provides an overview of the challenges and strategies for sustainable water resource management for coordinated planning, development and management of water resources. It will discuss technical, legal and institutional frameworks.

IDS 6246   Water Sensitive Urban Design for Sustainable Communities (3)
Comprehensive introduction to Water Sensitive Urban Design an interdisciplinary approach that encompasses urban water management, management of ecosystem services and urban/landscape design.

IDS 6247   Water Resources Planning (3)
Provides overview of water resources planning and introduces water resources planning and management tools. It will also teach students water quality, water and wastewater treatment technologies. Students will apply tools to develop water resources plans.

IDS 6270   **Sustainable Food Production (3)**
Overview of global food production systems including both traditional and sustainable agriculture, animal husbandry, and aquatic farming practices, their impact on ecosystems and the environment, and solutions for feeding a rapidly growing population.

IDS 6271   **The Future of Food: Environment, Health and Policy (3)**
This interdisciplinary course will introduce students to food as an operational component of the environment, human health, and public policy throughout the world and discuss historical perspectives, current issues, and future outlooks of food security.

IDS 6272   **Research Methods for Sustainability (3)**
Course teaches the process and procedures for a hands-on, in-depth experience with the tools, methodologies and the underlying rationale for inquiry so students can responsibly design and conduct original research in their field of study or concentration.

IDS 6368   **Strategic Communication (1)**
The course is a two-day dynamic and interactive 1-credit executive education course that provides practical policy-oriented practitioner's experience to participants who desire to enhance their skills to communicate effectively in a globalized world.

IDS 6369   **Strategic Global Negotiations (1)**
The course provides a practical policy-oriented practitioner's experience to participants who desire to enhance their skills to negotiate effectively in a globalized world dealing with real issues of conflict resolution and peace-building.

IDS 6908   **Directed Reading/Directed Independent Study (1-3)**
Individual study by students under the direction of a faculty member. Topics vary and are usually selected on an individual basis.

IDS 6918   **Directed Independent Research (1-3)**
Research projects or certain aspects of research carried out by student(s) under the supervision of an instructor intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and research.

IDS 6935   **Capstone Research Project (3-6)**
Students will identify the sustainability subject of their capstone project or pick from an existing selection of projects, discuss the scope and methodology with their faculty supervisor, and obtain their consent on a form supplied by the College.

IDS 6938   **Special Topics/Seminars (1-6)**
Special topics related to sustainability.

IDS 6946   **Sustainability Internship (3-6)**
The Sustainability Internship allows students to develop and practice skills related to global sustainability in developed and/or developing countries.

IDS 6947   **Service Learning (0-3)**

Students will learn about civic engagement, and gain knowledge about the relevant content area and its application through the context of their field experience, while making a valuable community contribution.

IDS 6948   **Gallery and Museum Internship (2-6)**
The 6 credit hours internship program conducted in various area museums is a professional program designed to give students the opportunity to engage in a comprehensive study of the contemporary museum.

IDS 6951   **Sustainability Project (3)**
This is the final project for the Master of Arts in Global Sustainability students.

INP 6057   **Industrial Psychology (3)**
An introduction to the major areas of Industrial-Organization Psychology, including topics on selection and placement, training, criterion development and performance appraisal, job satisfaction and motivation, and organizational theory and structure.

INP 6935   **Topics in Industrial-Organizational Psychology (3)**
Courses on topics such as industrial psychology, evaluation of performance in industry, and human factors.

INR 5012   **Globalization (3)**
Examination of globalization's impact on international relations, including literature from political science, anthropology, geography, sociology, and economics that impacts the study of the nation-state system and power. Open to majors and non-majors.

INR 5086   **Issues in International Relations (3)**
Explores specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics.

INR 6007   **Seminar in International Relations (3)**
Advanced study of international relations, including survey of basic literature, analysis of numerous theoretical and methodological approaches, and analysis of major issues.

INR 6036   **Seminar in International Political Economy (3)**
Advanced study of the development and politics of the international economic system focusing on theoretical and empirical analysis of cooperation and conflict in trade, aid, and investment relationships.

INR 6107   **American Foreign Policy (3)**
Objectives, formulation, and execution of foreign policy; critical issues and problems confronting the United States. Study of various conceptual, methodological, and theoretical approaches.

INR 6690   **Research Seminar in Globalization (3)**
Examination and presentation of research from multiple disciplines that address a wide-range of issues related to globalization, including those that concern governance and human development. Seminar format. Open to majors and non-majors.

ISC 3403C   **Physical Science Fundamentals for Teachers (4)**
This course is develops future science teachers' knowledge of the physical (chemistry, and physics) sciences commonly found in 5-9 school curricula, with a focus on effective research based physical sciences pedagogy.

ISM 6021   **Management Information Systems (2)**
An introduction to the fundamentals of information systems including an examination of information technology terminology and concepts, alternative methodologies for developing information systems, and the application and impact of information technology in contemporary organizations.

ISM 6046   **Contemporary Issues in Information Systems Management (3)**
An exploration of the variety of legal, ethical, and social issues involving the use of information systems and technology as well as managers' responsibility for ensuring that information resources are adequately protected and appropriately used.

ISM 6056   **Web Application Development (3)**
The course introduces students to developing web-based computer applications. The class also reinforces object-oriented concepts in computer programming.

ISM 6123   **Systems Analysis and Design (3)**
This course includes the foundations and methodologies for analysis of existing systems; the design, development, and implementation of new systems.

ISM 6124   **Advanced Systems Analysis and Design (3)**
This course covers advanced topics of information systems development. Students learn to manage and perform activities throughout the information systems development life cycle. State-of-the-art system development processes, methods, and tools are presented.

ISM 6136   **Data Mining (3)**
This course is designed for the MS in Information Systems graduate student and interested MBA students. The course covers the rapidly evolving data mining techniques that are becoming critical for customer relationship management and other applications

ISM 6137   **Statistical Data Mining (3)**
Development of statistical concepts and methods for mining large business databases.

ISM 6145   **Seminar on Software Testing (3)**
This course will survey and analyze the best practices in industrial testing groups and explore new ideas for improving the testing process. Students gain practical experience with both functional (black box) and structural (clear box) testing methods.

ISM 6155   **Enterprise Information Systems Management (3)**
Development of enterprise transaction processing applications using procedural or object oriented programming languages, relational database management, database sharing, and CASE methodology and project management techniques. Students will work in groups on semester projects.

ISM 6156   **Enterprise Resource Planning & Business Process Management (3)**
This course introduces students to business processes management and enterprise resource planning systems, and their use and implementation in key functional areas of today's global businesses.

ISM 6208   **Data Warehousing (3)**
This course is designed for the MS graduate student and interested MBA students. The course covers the rapidly emerging data warehousing and data mining technologies that are likely to play a strategic role in business organizations.

ISM 6217   **Database Administration (3)**
Advanced principles of Database Administration. Database Organization Models. Disaster Planning for Database Files.

ISM 6218   **Advanced Database Management (3)**
This course covers core business database technologies. Topics include database design, transaction processing, parallelism, and distributed databases. Emerging business intelligence technologies are covered. A database system is used for projects.

ISM 6225   **Distributed Information Systems (3)**
This course will focus on telecommunications, networks, and distributed applications. All forms of communication will be covered. Students will gain exposure to network management systems, local area networks (LANs), and global networks, such as Internet.

ISM 6266   **Software Architecture (3)**
Software architecture has emerged as an explicit field of study for software engineering practitioners and researchers. In this course, we will investigate the growing literature on software architecture and understand the application of software concepts to the development of information systems.

ISM 6305   **Managing the Information System Function (3)**
An advanced study of the management of IT resources including managerial decision making and the impact of IT on business processes and society. Society issues include those such as intellectual property rights, privacy, and ethics.

ISM 6316   **Project Management (3)**
The objective of this course is to become familiar with fundamental issues for managing project management and to develop an understanding of the overall processes of dealing with competing demands in information technology environments.

ISM 6328   **Information Security & Risk Management (3)**
Introduction of frameworks to assess IT risk and implement IT general controls; development of technical skills to secure computer networks.

ISM 6404   **Business Analytics and Big Data (3)**
This course provides an overview of the tools and techniques used for business analytics and big data. It covers descriptive, predictive and prescriptive analytics and essential technologies for managing and processing big data, such as Hadoop, R, NoSQL.

ISM 6405   **Informatics and Business Intelligence (3)**
Organizations use information systems to support the collection and analysis of information in order to strengthen their competitive positions. This course focuses on the technologies, methods and information used to promote IT-enabled decision making.

ISM 6436   **Operations & Supply Chain Processes (3)**
Operations Processes is an overview of several aspects of Operations management, a discipline in business concerned with managing the transformation of inputs into outputs.

ISM 6442   **International Aspects of Information Science (3)**
Role of managers and information technology professionals in global business organizations and in deploying information systems to enable global operations.

ISM 6485   **Electronic Commerce (3)**
This course is geared to a broad audience and will introduce information technology enablers that facilitate electronic commerce. The lectures, discussions and class presentations will also serve to understand the business landscape and business models.

ISM 6562   **Big Data for Business Applications (3)**
The course will cover web application development for Business using various big data technologies such as No-SQL database, distributed file system, Map-Reduce, distributed caching, message handlers and big data search system.

ISM 6642   **Statistical Programming for Business Analytics (3)**
Business analytics encompasses the collection, analysis, presentation, and use of data to assist in the decision-making process. This course introduces using SAS for statistical programming for data collection, analysis, and decision making.

ISM 6905   **Independent Study (1-6)**
Independent Study as directed by designated faculty.

ISM 6930   **Selected Topics in MIS (1-6)**
Selected topics in MIS.

ISM 6971   **Thesis: Master's (2-6)**
Students may select the thesis option in order to complete the Master of Science in the Management Information Systems (MS/MIS) program. Faculty permission is required to register for MS Thesis credit. Six credits are the maximum number of credits allowed for MS Thesis credit.

ISS 6184   **Development Ethics: Principles and Practice (3)**
Overviews the ethical problems of development, as well as presents the ways in which the problems of development may be investigated. Students are taught qualitative methodological techniques and apply these techniques in fieldwork projects. Open to all graduate students.

ISS 6900   **Directed Reading (1-3)**
A supervised program of intensive reading of interdisciplinary materials of specific interest.

ISS 6910   **Directed Research (1-19)**
A supervised program of intensive reading of interdisciplinary materials of specific interest.

ISS 6942   **Field Practice and Evaluation in Infant-Family Mental Health (3)**
This course requires interning for a minimum of 10 hours a week or working in an agency serving infants/toddlers and their families. It includes content on program evaluation, staff and agency collaboration, and self-assessment of IFMH practices.

ITW 6910   **Directed Research (1-19)**
Selected topics in Italian literature.

JOU 5105   **Newswriting and Editing (3)**
Introduction to the basics of gathering, writing, and editing the news, with an emphasis on practical assignments done under professional conditions and standards. Discussions, readings emphasize the larger context and implications of news.

JOU 5344   **Multimedia Journalism (3)**
The course is designed to bring components of print, web and broadcast writing together to develop skills for and understanding of the multimedia environment. It is restricted to majors and not repeatable for credit.

JOU 6006   **Digital Media and Democracy (3)**
This course will provide perspectives on and historical development of the practice of journalism in the digital era. Students will also make determinations about the efficacy of digital journalism in building or diminishing democracy.

JOU 6107   **News Coverage of Public Life (3)**
Problems and methods of reporting urban affairs, including municipal government, and politics: city, county, and state. Research/analyses of current issues.

JOU 6114   **Multimedia Reporting (3)**
This course teaches the writing and visual skills specific to journalism across all digital media platforms. It makes a decisive break with traditional print and frames the future of the reporter as digital and global.

JOU 6122   **Reporting: Methods and Perspectives (3)**
Instruction and practice in computer-assisted reporting, social science research, interviewing, data-document research, observational techniques, and other methods of news gathering.

JOU 6135   **Video Storytelling 1 (3)**
Best practices multimedia shots, audio, post-production editing, industry work flows, the craft of storytelling through a lens, interviewing and scripting techniques will be emphasized. Beginning Reporting or professional news writing experience required.

JOU 6191 **Seminar: Contemporary Issues in Journalism (3)**
A study of the role of the free press in a democratic society and its efforts to fulfill its social and ethical responsibilities by analyses and discussions of the problems which face the reporter, the editor, and the publisher.

JOU 6349 **Advanced Multimedia Journalism (3)**
Students learn what it means to work in a multimedia environment and will create a journalism project across multiple media platforms, including broadcast, print and the web. They will also explore the theoretical assumptions of the field.

JOU 6360 **Digital Media Technology (3)**
Creating quality online news reports means being a producer. In this course students will hone critical thinking skills while becoming familiar with the digital technologies of modern journalism. This has an exclusive digital focus.

JOU 6361 **Digital Video Production (1)**
Shooting quality online video for news reports is a skill each modern journalist should know. You will hone your critical thinking skills while becoming familiar with what comprises a publishable news video for online use. Hands-on learning is included.

JOU 6362 **Digital Audio Production (1)**
Recording quality audio for online news reports is a skill all modern journalists should know. You will hone your critical thinking skills while becoming familiar with what comprises publishable audio for online news use. Hands-on learning is included.

JOU 6501 **Media Management (3)**
The course provides students with a foundation in understanding the financial and economic environment of the mass media and the process of managing mass media enterprises in the new multimedia environment. It is not restricted nor repeatable for credit.

JOU 6503 **Entrepreneurial Journalism (3)**
Most future journalists will be independent entrepreneurs. Students will explore how media management and community business leaders collaborate and explore emerging economic models of independent journalists operating in the digital media environment.

JOU 6606 **Photo Journalism (1)**
Taking quality online still photos for news reports is a skill all modern journalists need to know. You will hone your critical thinking skills while becoming familiar with what comprises a publishable photo for online use. Hands-on learning is included.

JOU 6708 **Digital Media Law and Ethics (3)**
Online publishers must recognize and avoid unlawful conduct and are responsible for developing and adhering to ethical processes. This course focuses on the law and ethics of gathering, creating and publishing online content.

JOU 3346C **Multimedia Reporting (3)**

The course prepares students for a digital media environment. Students learn to write, report, as well as produce audio, video, photos, and digital content for news stories. Students produce multimedia news stories for the web.

LAE 5362   Methods of Teaching English Language Arts (3)
Explores best practices and develops methods for integrating reading, writing, speaking, listening, viewing, and critical thinking activities into secondary and post-secondary English language arts classes.

LAE 5462   Young Adult and World Literature for New Teachers (3)
A study of the types of literature read by adolescents, including literature representative of other cultures, with emphasis upon the criteria for the choice of good books and knowledge of available books and teaching materials.

LAE 5862   Classroom Communication in English Education (3)
Identifies characteristics of classroom communication environment; offers insights, info, instructional strategies designed to help you become effective classroom communication managers. Emphasis on role of media & non-print texts in students' lives.

LAE 5932   Selected Topics in the Teaching of English (3)
Investigation of topics which are of special interest to the student and are related to the teaching of English in the secondary school. Topics will be selected by the student in accordance with his particular goals and will be approved by the student's graduate advisor.

LAE 6315   Composing Texts: Disciplinary Practices for Writers & Writing (3)
Examine writing as a multimodal, communicative practice embedded in social, cultural, and disciplinary contexts. Demonstrate strategies to facilitate K-12 students' writing development as well as develop leadership skills to support writing teachers.

LAE 6317   Teaching Composition in Elem Classroom: Research into Practice (3)
Identify traits of children's written, visual, and media-based products, assess & support children's developmental progression of writing processes or strategies, & demonstrate instructional strategies for teaching multimodal composing.

LAE 6325   Methods of Teaching Middle School Language Arts (4)
Balanced literacy methods for integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature based program for middle school students. Note: This course has a field component of 36 hours.

LAE 6339   Methods of Teaching Secondary English Language Arts (4)
Balanced literacy methods for integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a literature-based program for secondary school students. Note: This course has a field component of 36 hours.

LAE 6345   Teaching Written Composition (3)
Techniques for motivating, guiding, correcting, and evaluating student writing.

LAE 6366   **New Perspectives on the Teaching of Young Adult Literature in Middle & Secondary Schools (3)**
The primary purpose of this course is to improve the quality of language arts instruction at the middle and secondary levels. To achieve this basic purpose, we will focus chiefly on adolescents' perception of and responses to literature and the implications for organization and presentation of literature curricula.

LAE 6374   **Practice in Teaching Grammar (3)**
Demonstrates techniques incorporating instruction of essential elements of English grammar/mechanics into composition courses. Pedagogy is essential for teachers in secondary schools, community colleges, or advanced composition at the university level.

LAE 6375   **Contemporary Composition Studies (3)**
Examines the important research and theory in contemporary position pedagogy.

LAE 6389   **Practice in Teaching Literature (1-3)**
A course that allows the prospective college English teacher to experiment with teaching techniques that will determine the most effective ways to teach literature and teach college English teachers the variety and importance of literary techniques and their relevance to various subject matters.

LAE 6415   **Literature and the Learner (3)**
Nature, scope, and uses of literature for instructional, information, and recreational purposes and implications of current theory, significant research, and issues in literature study as they relate to the learner.

LAE 6427   **Children's Literature: Teaching Literature Appreciation (3)**
Building on an appreciation for children's literature students learn how to select quality literature for children and demonstrate instructional strategies for developing children's engagement with literary texts, etc.

LAE 6467   **World Literature for Teachers (3)**
World literature encompasses more than Western European literature. This course is designed to emphasize, but is not limited to, the study of Eastern literature. The course is for English Education majors only.

LAE 6616   **Trends in Language Arts Instruction (3)**
Significant concepts, emerging trends, research, and instructional techniques for implementation and utilization of language arts in all areas of the curriculum.

LAE 6637   **Current Trends in Secondary English Education (3)**
Curricular patterns and instructional practices in secondary English.

LAE 6644   **Current Teaching of the English Language and the Study of Traditional Grammar (3)**
Applications of recent techniques of language study to classroom teaching of English, especially in relation to the teaching of grammar. Presents an interactive approach to grammar instruction in which students learn the basic elements of English grammar and engaging classroom activities for teaching grammar in the schools. Fulfills the grammar course requirement for teacher certification in English.

LAE 6738 **Teaching Reading in English Curriculum (3)**
Course is to improve the quality of reading instruction in mid & sec English classes through the study of the reading process, research, & evaluation related to sec reading, understand how research impacts instruction, process of educational reform.

LAE 6749 **Composition and the Arts in Literacy Education (3)**
Students will critically examine research on composition and the arts. Students will evaluate instructional practices and design integrated language arts programs. Open to non-majors. Not repeatable for credit.

LAE 6793 **Professional Leadership and Research in the Teaching of Writing (3)**
Develop professional leadership of teachers of writing, demonstrate research-based, classroom-based, writing strategies to their peers by linking research directly to instruction. Form support network for Teacher Consultants of the National Writing Proj.

LAE 6861 **American and British Literature with Technology (3)**
A study of five sections of literature: 1) British Literature before Shakespeare, 2) British Literature after Shakespeare to 1740, 3) British Literature 1740-1900, 4) American Literature before 1900, and 5) Twentieth Century British and American Literature (1890 to the Present) while developing an individual's skill with technology.

LAE 6906 **Independent Study in English Education (1-6)**
This course permits a student to explore a topic of interest in depth under the direction and supervision of a faculty member.

LAE 6923 **Teachers Writing: A Writing Workshop Approach to the Teaching of Writing (3)**
Engage teachers as writers, knowing the best teachers of writing must write. Teachers write together, critically examine new writing strategies, and establish a professional support network to serve as foundation for enhancement of their teaching of writing.

LAE 6947 **Internship in Secondary Education for English (6)**
Students will work with a cooperating teacher and university supervisor to complete their internship requirements in a classroom setting assigned by the university.

LAE 6971 **Thesis: Masters/Educational Specialist (2-19)**
None.

LAS 6220 **Issues and Perspectives in Latin American Studies (3)**
Overview of the economic and political history of Latin America, the history of thought about Latin American development problems, and US - Latin American relations during the 19th and 20th centuries**.**

LAS 6913 **Independent Study and Research in Latin American (1-9)**
This course will provide graduate students with an opportunity to engage in research and/or study abroad in Latin America & the Caribbean, to earn credits towards their degree. Open to LAC majors and non majors. Repeatable up to 9 credits.

LAS 6936 **Seminar in Latin American Studies I (3)**

This seminar introduces students to the general study of the region and peoples of Latin America and their emigrant populations in the United States. Repeatable as topic varies.

LAS 6971   **Thesis in Latin America and Caribbean (1-12)**
This course will allow graduate students to earn credits while working on a thesis that is focused in Latin America & the Caribbean. Open to all graduate majors. Repeatable.

LIN 5700   **Applied Linguistics (3)**
Analysis of the phonological, morphonological, and syntactic features of English as a basis for linguistic application to problems of English language acquisition by non-native speakers.

LIN 6081   **Introduction to Graduate Study in Linguistics (3)**
An introduction to the aims and methodologies of linguistics as a graduate discipline: The field of linguistics, its subdisciplines, and its relationship to adjacent arts and sciences; bibliographical resources; methods of research and research writing; and a brief survey of the historical development of linguistics and current issues in the field.

LIN 6601   **Sociolinguistics (3)**
Detailed analysis of the phenomenon of language variation with emphasis upon the research methodology of sociolinguistics and the implications of its findings for current linguistic theory.

LIN 6675   **The Grammatical Structure of American English (3)**
Analysis and description of major morphological and syntactic structures of American English, with emphasis upon applied linguistics.

LIN 6688   **Corpus Linguistics (3)**
This course provides an introduction to the different kinds of questions about authentic language use that are investigated using electronic collections of texts (i.e., corpora) analyzed via specialized computer programs.

LIN 6720   **Second Language Acquisition (3)**
Neurolinguistic, psycholinguistic, and sociolinguistic bases of second language acquisition by both children and adults.

LIN 6722   **Writing Processes in Second Languages Acquisition (3)**
A survey of current theory and research in second language writing development and instruction, with emphasis upon second language writing in academic settings. May be taken as an elective by students in the Ph.D. program in Second Language Acquisition and Instructional Technology or the M.A. program in Applied Linguistics.

LIN 6726   **Individual Differences in Second Language Acquisition (3)**
This course covers a variety of topics about individual differences in SLA including, but not limited to, motivation, anxiety, tolerance of ambiguity, and language aptitude.

LIN 6748   **Contrastive Analysis (3)**
Comparison and contrast of the structures of American English with corresponding structures in selected foreign languages. EA and IA added for contrast with CA.

LIN 6908 **Independent Study (1-19)**
Independent study in which the student must have a contract with an instructor.

LIN 6910 **Directed Research (1-19)**

LIN 6932 **Selected Topics (1-4)**
Content will depend upon instructor's interests and students' needs. Such topics and neurolinguistics, bilingualism, and discourse analysis may be taught.

LIS 5020 **Foundations of Library and Information Science (3)**
Introduction to the study of library and information science, history; organization; specialized literature; outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.

LIS 5268 **Microcomputer Applications Library and Information Centers (3)**
Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major applications for budgets, databases, and telecommunications are undertaken.

LIS 5315 **Instructional Graphics (3)**
Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

LIS 5333 **TV in Schools and Libraries (3)**
Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.

LIS 5418 **Health Informatics for Medical Librarians (3)**
Introduction to the interdisciplinary field of medical informatics highlighting the underlying theories, and methods related to health information technology in support of decision-making, problem-solving, and other health information problems.

LIS 5566 **Multicultural Literature for Children and Young Adults (3)**
Students will select and evaluate multicultural and special population materials for effective use in youth services and programs in public and school libraries.

LIS 5631 **Health Information Sources (3)**
Introduction to printed and electronic sources of health information. Course material is intended for those interested in medical, public, or academic libraries where clients need health-related information.

LIS 5802 **Information Analytics (3)**
This course teaches the basics of data science, visualization, and the use of R, a programming language and software environment for statistical computing and graphics.

LIS 5937 **Selected Topics in Library Studies (1-4)**

Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

LIS 6008   Advanced Information Retrieval (3)
Principles of online searching and characteristics of machine-readable bibliographic data bases. Includes two credit hours of laboratory providing hands-on research experience.

LIS 6026   Introduction to Archives and Records Management (3)
This introductory course teaches students the basic theories and methodologies of archives and records management. It serves as a foundation for other more advanced archival management courses, such as Web Archiving and Digital Curation.

LIS 6107   Advanced Professional & Technical Communication for Analysts (3)
Advanced Professional and Technical Communication for Analysts teaches students to enhance critical thinking, to write and brief effectively, and to present complex information to inform decision making.

LIS 6110   History of Libraries (3)
Development of libraries as found from the earliest records to the great libraries of modern times, and the library as a social institution.

LIS 6111   History of Children's Literature (3)
Historical bibliographical survey of imaginative and information literature for children.

LIS 6260   Foundations of Information Science and Technology (3)
Overview of the interdisciplinary field of information science. The fundamental concepts of information retrieval systems and subsystems, related information technologies, and other core functions in the organization, access, and use of information.

LIS 6266   Search Engine Society and Digital Natives (3)
This course introduces the nature of search engines, their role in our information society, and their impacts on society as well as the ways that people communicate, think, and socialize in their daily life.

LIS 6271   Research Methods in Library and Information Science (3)
Overview of present status of research in library and information science; introduction to research methods and their application to librarianship; designed to prepare students to evaluate and plan research studies relating to library and information science.

LIS 6303   Preparing Instructional Media (3)
Fundamentals of preparing and using audiovisuals as they relate to the communication process.

LIS 6316   Visualization of Knowledge (3)
This course covers the perceptual basis of information visualization, major visualization methods, information retrieval system utilizing information visualization, and future trends and issues of information visualization in digital libraries.

LIS 6402   Advanced Library Administration (3)

Applications of staff management principles to library situations. Includes staff roles in current and future operations, application of library performance measures to determine staff effectiveness; preparation of staff manuals; problems of special classes of library workers, such as volunteers and students.

LIS 6409   **Introduction to Library Administration (3)**
Behavioral approach to libraries as organizations; administrative principles, theories, and problems of all types of libraries; methods of administration; use of case studies, role plays, and in-basket exercises.

LIS 6432   **Seminar in Academic Libraries (3)**
Identification of problems and critical examination of methods in administrative areas of technical, student and teaching staff services, fiscal and legal responsibilities, staff organization and supervision in academic libraries.

LIS 6445   **Seminar in Public Libraries (3)**
Critical examination of public and institutional library administration, services, resources, and facilities at the municipal, county, and regional levels. Role of state and federal governments in library development.

LIS 6455   **Organization and Administration of the School Media Center (3)**
Media quarters, facilities, collections, equipment, and services. Principles of organization and administration of media programs in elementary and secondary schools. Field trips to area media centers required.

LIS 6463   **Library Networks and Systems (3)**
Development of library networks at the local, state, regional, and national levels with consideration of organization, administration, services, funding, and legislation.

LIS 6472   **Seminar in Special Libraries (3)**

LIS 6473   **Law Librarianship (3)**
All aspects of law librarianship, including administration, acquisition, organization, and use of information resources for persons in the law fields. Field trip may be required.

LIS 6475   **Health Sciences Librarianship (3)**
All aspects of health science librarianship, including administration, acquisition, organization, and use of information resources for persons in the health fields such as physicians, medical students, nursing students, allied health personnel and students, and researchers.

LIS 6511   **Collection Development and Maintenance (3)**
Developmental approach to building library collections of both print and non-print materials. Emphasis upon evaluation, selection, and acquisition of library materials as they uphold the objectives of the institutions for which they are selected and acquired.

LIS 6514   **Digital Libraries (3)**

Survey of the field of digital libraries with an emphasis on the interplay of people, organizations, and technology. Experience in either planning or developing a digital library site.

LIS 6515   **Web Archiving (3)**
Introduces the background knowledge about the Web and web archiving related technical standards, and cover the whole process of web archiving, including selection, acquisition, organization and description, storage, access and preservation.

LIS 6523   **Adult Services In Libraries (3)**
Traditional and innovative services for adults in public and other types of libraries, including those for special groups, such as the aging, handicapped and institutionalized.

LIS 6528   **Storytelling (3)**
Building storytelling programs for school and public libraries or other educational institutions. Analysis of historical aspects, materials suitable for use and audience reaction.

LIS 6542   **The Curriculum and Instructional Technology (3)**
Effective utilization of instructional materials as they relate to specific areas of curriculum in elementary and high school programs.

LIS 6564   **Materials for Children (3)**
Examination of materials for all institutions in which children are served: school media centers, public libraries, kindergartens, etc. Stress on selection aids, reviewing techniques, utilizations.

LIS 6565   **Books and Related Materials for Young Adults (3)**
Young adult materials for use in secondary school libraries, young adult sections of public libraries, and other institutions serving youth. Equal emphasis upon (1) selection principles and bibliographical sources, as well as upon (2) utilization in terms of service to the young adult.

LIS 6603   **Basic Information Sources and Services (3)**
An examination of the basic sources of information in the general library; of bibliographical control of all communication media, with emphasis on those tools of most value to general reference services.

LIS 6610   **Information Sources and Services in the Humanities (3)**
Consideration of the bibliographical and reference materials in the humanities with training and practice in their use for solving problems in the reference service.

LIS 6620   **Information Sources and Services in the Social Sciences (3)**
Consideration of the bibliographical and reference materials in the social sciences with training and practice in their use for solving problems in reference service.

LIS 6624   **Information Sources and Services in Business and Law (3)**

Consideration of representative reference sources in business and law with training and practice in their use for solving information problems in academic, public, and special libraries.

LIS 6630   **Information Sources and Services in Science and Technology (3)**
Study of representative reference sources in pure and applied sciences with equal attention given to typical problems encountered in scientific and technological reference service.

LIS 6661   **Government Documents (3)**
The nature of state, federal, United Nations, and international documents, their reference and research value; the techniques of acquisition, organization, and reference use.

LIS 6670   **Advanced Cyber Intelligence (3)**
This course builds on the foundations of Cyber Intelligence (LIS 6703) and focuses on applying intelligence analytic methods to plan, collect, process, analyze, produce and disseminate cyber intelligence products.

LIS 6700   **Information Strategy and Decision-Making (3)**
This course builds on the idea that understanding strategy is a foundation for making information meaningful. Student will learn strategic concepts, tools, and tradecraft and how to apply them to improve decision making.

LIS 6702   **Advanced Intelligence Analytic Methods (3)**
This course is designed to help the student select and apply complex, structured techniques and methods used to support intelligence analysis.

LIS 6703   **Core Concepts in Intelligence (3)**
Introduces intelligence theory, explores the organization and functions of the U.S. Intelligence Community, its interaction with national security policymakers, key issues about its workings, and the challenges it faces in defining its future role.

LIS 6709   **Cyber Intelligence (3)**
This course reviews the main actors, targets, threats, and other troublesome activities in cyberspace. It builds a foundation for understanding how cyber intelligence and counterintelligence can support enterprise and national cybersecurity.

LIS 6711   **Organization of Knowledge I (3)**
Principles of the organization of knowledge emphasizing descriptive cataloging, including the MARC format, the use of LSCSH and the Library of Congress classification, and searching the OCLC Online Union Catalog.

LIS 6712   **Organization of Knowledge II (3)**
Introduction to the practice in using selected schedules of Library of Congress Classification System and the Library of Congress Subject Heading List; changing policies and procedures in cataloging and an introduction to the use of the MARC format for inputting cataloging data into machine readable files.

LIS 6724   **Cataloging and Classification (3)**
Introduction to principles and practices of cataloging and classification according to current national standards, covering descriptive cataloging, subject analysis, and classification.

LIS 6735   **Technical Services in Small Libraries (3)**
Covers aspects of technical services including acquisitions, cataloging, and circulation systems as they relate to school media centers, small public libraries, and information centers. Automation is emphasized in all aspects of the course.

LIS 6773   **Digital Curation (3)**
Covers the management of current and archival electronic records, including the creation and implementation of electronic record-keeping systems, the appraisal, processing and preservation of electronic records.

LIS 6906   **Independent Study (1-4)**

LIS 6946   **Supervised Field Work (3)**
Supervised experience in an approved cooperating library. Includes practice work, seminar sessions and individual conferences, a progress report, and a final report on the field experience.

LIS 6949   **Practicum in Archives and Special Collections (2-6)**
Students gain hands-on practice in processing, cataloging and digitizing archives, rare books and other kinds of special collections. Students will be supervised by an archivist/special collections librarian and a faculty member. Permission required.

LIS 6726C   **Metadata (3)**
This course introduces concepts, principles, practices, and current issues of metadata, with the emphasis on the metadata implementations in the library, archive, and museum communities.

LIT 6096   **Studies in Contemporary Literature (3)**
Drama, poetry, fiction, and literary criticism; authors to be studied include Ionesco, Thomas, Miller, T. Williams, Beckett, Camus, Burgess, Morrison, and Walker.

LIT 6105   **Studies in Continental Literature (3)**
General areas include the Renaissance, the Enlightenment, the Novel in Europe, the Romantic Movement on the Continent, and Classical Comedy.

LIT 6236   **Studies in Postcolonial Literatures (3)**
Study of literature from colonies of Europe. Major concerns include identity, struggles against colonialism and neo-colonialism, modernization, education, the changing status of women, and issues of language and literary genre.

LIT 6934   **Selected Topics in English Studies (1-6)**
Current topics offered on a rotating basis include The Nature of Tragedy; the Nature of Comedy and Satire; and the Nature of Myth, Allegory, and Symbolism; the Epic; Utopian

Literature. Other topics will be added in accordance with student demand and instructor interest.

LNW 5900   **Directed Reading (1-4)**

LNW 5934   **Selected Topics (4)**
Study of an author, movement, or theme.

MAA 5306   **Introduction to Real Analysis (3)**
A course in Real Analysis. Topics include differentiation, Riemann-Stieltjes integrals, uniform convergence, Fourier series, and special functions.

MAA 5307   **Real Analysis I (3)**
A graduate course in real analysis. Topics include Lebesgue measure and integration, Lebesgue differentiation, convergence theorems, absolute continuity, the Fundamental Theorem of Calculus, and the basics of Lp spaces.

MAA 5405   **Applied Complex Analysis (3)**
Complex numbers, analytic and harmonic functions. Series. Contour integrals, residue theory. Conformal mappings. (A survey course emphasizing techniques and applications.)

MAA 6406   **Complex Analysis I (3)**
Linear transformations, analytic functions, conformal mapping, Cauchy's theorem and applications, power series, partial fractions and factorization, elementary Riemann surfaces, Riemann mapping theorem.

MAA 6407   **Complex Analysis II (3)**
Topics in: conformal mappings, normal families, Picard's theorem, univalent functions, extremal properties, elliptic functions, approximation theory, Riemann surfaces.

MAA 6506   **Functional Analysis I (3)**
Normed linear spaces and topological vector spaces; open mapping, closed graph, and Hahn-Banach Theorem, UB principle, compact operators, dual spaces.

MAA 6507   **Functional Analysis II (3)**
Hilbert spaces, spectral theory, and other topics.

MAA 6616   **Real Analysis II (3)**
A continuation of the study of real analysis. Topics include Banach spaces, measure and integration, Riesz Representation Theorem, and the Radon-Nikodym Theorem.

MAD 5101   **LISP: Programming With Algebraic Applications (3)**
Programming in LISP, functional languages, foundations of Lambda Calculus and algebraic applications (theorem proving and game playing).

MAD 5305   **Graph Theory (3)**
Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.

MAD 6206   **Combinatorics I (3)**
Elementary counting principles, distributions, sets, multisets, partitions of sets and integers, generating functions and recurrences, graphical methods, probabilistic methods.

MAD 6207   **Combinatorics II (3)**
Combinatorics of finite sets: posets, hypergraphs and external problems, matriods, block designs, Mobius inversion for partially ordered sets, Polya's enumeration theory.

MAD 6510   **Analysis of Algorithms (4)**
Mathematical theory of algorithms for information processing, including time and space requirements of algorithms, construction of optimal algorithms.

MAD 6616   **Algebraic Automata Theory (3)**
Deterministic and non-deterministic finite automata, Mealy and Moore machines, push-down automata, Turing machines, regular languages, context free languages, halting problem, and universal Turing machines.

MAD 6617   **Algebraic Coding Theory (3)**
Linear block codes over an arbitrary finite field: Hamming, Golay, BCH, quadratic residue, Reed-Muller, and MDS codes, the MacWilliams identity, bounds on minimum distance, and relationship to design theory.

MAE 5177   **Teaching College Mathematics (3)**
In this course, students will acquire pedagogical skills necessary to become effective teachers of undergraduate math. It will also introduce students how to implement research-supported teaching practices and student-centered pedagogies in a classroom.

MAE 6115   **Current Trends in Elementary Mathematics Education (3)**
Philosophy, content, and process of mathematics instruction in elementary school programs.

MAE 6117   **Teaching Elementary Math (3)**
This course provides for the development of knowledge and skills necessary to prepare students as teachers of mathematics in elementary classes as recommended by the National Council of Teachers of Mathematics in its guidelines for teachers.

MAE 6126   **Current Trends in Middle Grades Mathematics (3)**
This course examines current trends and issues in middle grades mathematics. It familiarizes teachers with new developments in this field with a focus on curriculum issues and issues arising from state, national, and international assessments.

MAE 6127   **Probability and Statistics for Middle Grades Teachers (3)**
This course examines probability and statistics topics for middle grades mathematics teachers. Topics include data collection and display, measures of central tendency and variability, probabilities, and sampling procedures.

MAE 6136   **Current Trends in Secondary Mathematics Education (3)**

Curricular patterns and instructional practices in secondary mathematics.

MAE 6137   **Topics in Teaching Probability and Statistics (3)**
This course examines issues related to teaching probability and statistics in secondary schools.

MAE 6315   **Algebraic Thinking for Elementary Teachers (3)**
This course is designed to enhance the algebra content knowledge of elementary teachers and to consider hpw algebraic experiences and informal algebraic concepts can be introduced into the elementary curriculum.

MAE 6316   **Geometry and Measurement for Elementary Teachers (3)**
This course is designed to enhance the geometric content knowledge of elementary teachers and to consider how geometric experiences and concepts can be introduced into the elementary curriculum.

MAE 6324   **Advanced Math Topics - Middle Grades Teachers (3)**
This course examines advanced functions topics, basic concepts of trigonometry, and the foundations of calculus. Teachers experience instructional approaches appropriate for use in middle grades classrooms.

MAE 6325   **Number Theory for Middle Grades Teachers (3)**
This course examines in number theory concepts appropriate for middle grades mathematics teachers, including historical connections. Teachers experience instructional approaches appropriate for use in middle grades classrooms.

MAE 6328   **Algebra for Middle Grades Teachers (3)**
This course examines in algebra content appropriate for middle grades mathematics teachers, including the use of technology to study algebra. Teachers experience instructional approaches appropriate for use in middle grades algebra classrooms.

MAE 6329   **Geometry and Measurement for Middle Grades Teachers (3)**
This course examines in geometry content appropriate for middle grades mathematics teachers, including the use of technology to study geometry. Teachers experience instructional approaches appropriate for use in middle grades classrooms.

MAE 6334   **Problem Solving for Elementary Teachers (3)**
This course analyzes problem-solving strategies of elementary teachers and their students.

MAE 6336   **Topics in Teaching Calculus (3)**
This course examines issues related to teaching calculus in secondary schools.

MAE 6337   **Topics in Teaching Algebra (1-4)**
Topics in algebra, philosophy, new trends, and methods of teaching secondary school algebra.

MAE 6338   **Topics in Teaching Geometry (1-4)**

Topics in geometry, philosophy, new trends, and methods of teaching secondary school geometry.

MAE 6356   **Teaching of Pre-Secondary School Mathematics (3)**
Development of strategies and materials for teaching mathematical concepts and skills appropriate to pre-secondary school years.

MAE 6362   **Senior High Mathematics Methods (3)**
This course is designed to prepare teachers for a successful induction to teaching mathematics in the high schools of today. It is designed to bridge the perceived gap between theory and practice.

MAE 6370   **Mathematics for High School Teachers (3)**
This course examines high school mathematics from an advanced perspective and makes connections between college level mathematics and the mathematics of the secondary school.

MAE 6643   **Communication Skills in Mathematics (3)**
This course examines issues related to communicating in mathematics, including reading, writing, speaking, and listening. It satisfies the reading in the content area mandate for certification.

MAE 6650   **Technology-Enhanced Numerical Analysis in the Middle Grades (3)**
Examines descriptive analyses of numerical data and probability concepts appropriate for teaching middle grades mathematics using technology.

MAE 6654   **Teaching Technology-Enhanced Algebra in the Middle Grades (3)**
Develops algebraic thinking appropriate for middle grades teachers using technology. Topics include fundamental concepts in algebra. The framework used in the course will develop a teacher's technological pedagogical content knowledge.

MAE 6899   **Internship Seminar in Mathematics Education (1-3)**

MAE 6906   **Independent Study in Mathematics Education (1-6)**
This course permits a student to explore a topic of interest in depth under the direction and supervision of a faculty member.

MAE 6945   **Practicum in Mathematics Education (3)**
This practicum provides individuals in the MAT program in mathematics education with early field experiences in mathematics classrooms at the middle or high school levels, depending on the program of study.

MAE 6947   **Internship in Secondary Education for Mathematics (6)**
Students will work with a cooperating teacher and university supervisor to complete their internship requirements in a classroom setting assigned by the university.

MAE 6971   **Thesis: Masters/Educational Specialist (2-19)**

MAN 5502   **MBA Essentials: Management (0)**

A basic conceptual overview of management principles. Topical coverage includes ethics, globalization, strategic management, leadership, and individual and group decision making.

MAN 5509   **MBA Essentials: Operations Mgt (0)**
A course emphasizing the quantitative techniques for trying to optimize the human and material resources utilized in service and production oriented operations.

MAN 6055   **Organizational Behavior and Leadership (2-3)**
An examination of the theory and practice of management, including the study of goals and means, the functions of management, and the administrative process in general.

MAN 6068   **Social Issues in Management (3)**
An examination of issues that impact the moral and legal behavior of organizations and their stakeholders, including management, shareholders, unionized labor, white collar workers, suppliers, customers, consumers, and the environment.

MAN 6107   **Leading Sustainable Enterprise: Goals and Processes (2-3)**
Examines the perspective required of the manager/leader/facilitator in light of personal, organizational, and societal needs judged by standards of effectiveness and ethicalness.

MAN 6116   **Diversity and Organizational Justice (3)**
Course deals with questions, dimensions of style and structure, problems and paradigms of solutions that have come out of management experience of a changing workforce during the past twenty years. Emerging styles of leadership among people of diverse cultural backgrounds will be explored as solutions, not as problems.

MAN 6140   **Decision Making & Problem Solving (3)**

MAN 6145   **Managing Creative Projects (3)**
Interdisciplinary overview of how organizations can harness innovation through creative projects. It covers foundations of creativity and innovation, techniques to support creativity in teams, and establish a culture of innovation.

MAN 6147   **Leadership/Management Concepts (2)**
Provides a foundation for the study of processes of leadership in organization and society. Presents an overview of various concepts of leadership, such as the personal values of leaders and leadership organization.

MAN 6149   **Leadership and Teams (3)**
Exploration, analysis and applications of Leadership theory, research concepts and skills in teams and organizations. Course provides insights into opportunities and challenges faced by leaders as they seek to adapt themselves and their organizations to the global business environment.

MAN 6165   **Principles of Collaboration (3)**
This course approaches collaboration from multiple perspectives. Students will learn underlying theories of teams and collaboration, as well as techniques for leadership, interpersonal communications, virtual collaboration, and collaboration engineering.

MAN 6204   **Organization Design and Structure (3)**
Systematic study of architecture, design and management approaches that influence the effectiveness of public and private organizations, including theory, environment, technology, culture, behavior control and work design.

MAN 6244   **Organizational Behavior (3)**
A course that provides the framework within which students can understand how managers and subordinates interact by focusing on the characteristics of individuals and group behavior within organizations.

MAN 6256   **Politics and Control in Organizations (3)**
Course explores politics and control at the individual, small group, and organizational levels. Students will also explore the power relationships between organizations and the larger political/economic systems of which they are a part and with which they interact.

MAN 6289   **Organizational Change and Development (3)**
A combination laboratory-field course requiring the integration of behavioral science theories, tools, concepts, and techniques learned in the lab to an OB application in a "real" organization.

MAN 6305   **Human Resource Management (3)**
Course focuses on the complex decision-making processes involved in the management of human resources within an organizational system geared to meeting both individual needs and organizational objectives.

MAN 6347   **People Analytics (3)**
People drive organization and it is now possible to track performance in great detail. This course provides an overview of people analytics opportunities in today's organizations as well as methods to address in a data-driven manner.

MAN 6406   **Employment Law (3)**
This course provides students with a working knowledge and understanding of how employment law originates, evolves, and impacts the work place.

MAN 6435   **Contract Management (3)**
This course strengthens the student's ability to participate in goods and services acquisition and contract administration. Students will be introduced to the different contracting models including Private, Federal, and state, local and education (SLED).

MAN 6448   **Negotiating Agreement and Resolving Conflict (3)**
Provide the student with an overview of conflict resolution within/between organizations. Includes negotiation, mediation, arbitration, peer review, and other alternatives to litigation; internal dispute resolution, dispute system design/implementation**.**

MAN 6518   **Sustainable Production Systems (3)**
Examines production processes dedicated to sustainable organizational performance through elimination of waste and reduction in resources consumed.

MAN 6599   **Logistics Systems and Analytics (3)**
Introduction to software tools and decision support models which are frequently used in the design and operation of integrated supply chains.

MAN 6601   **International Management (3)**
A study of the characteristics of the international and multinational company, environmental constraints, personnel and labor relations factors, and strategic planning and policies.

MAN 6607   **Managing International Cultural Differences (3)**
Examines the effects of culture and nationality on business practices in selected regions and countries and suggests ways to build synergistic solutions from multicultural differences.

MAN 6726   **Strategic Business Analysis (2)**
Examines techniques to creatively vision and analyze the future to prepare individuals and organizations for future opportunities and threats. Designed to familiarize students with techniques for analyzing the future, critical issues, how the future will impact them as individuals.

MAN 6746   **Designing Sustainable Enterprise (3)**
Examines an analytical framework for organizations to build more sustainable economies, societies, and natural environments.

MAN 6748   **Assessing Sustainable Performance of Organizations (3)**
The course helps students to conceptualize a sustainable organization and use that as a benchmark to analyze the performance of organizations aspiring for long-term survival and growth.

MAN 6766   **Leadership and Corporate Accountability (3)**
A final synthesis of core learning, with student groups conducting a strategic stakeholder analysis of an organization in the community. Issues of Leadership and Corporate Governance are discussed.

MAN 6774   **Executive Leadership (3)**
This course is designed for graduate students who are or aspire to be top executives in triple bottom line organizations. The underlying assumption of this course is the mission of executive leaders is to achieve high commitment and high performance.

MAN 6782   **Organizational Strategies for the 21st Century (3)**
An integrated course that ties together concepts, principles, and skills useful in strategic management and strategic direction making with issues of ethics and responsibility in organizations in the 21st century.

MAN 6789   **Social Media Management and Strategy (3)**
This course builds a basic foundation of the "how to" of online social networking sites to help students understand how these sites can be used by businesses and professionals to manage, network, recruit, market, and address customer concerns.

MAN 6905   **Independent Study (1-19)**
Independent study in which student must have a contract with an instructor.

MAN 6911   **Directed Research (1-19)**

MAN 6930   **Selected Topics (1-4)**
Designed to be taken either under general guidance of faculty member on some facet of management not offered in a regular course or with regularly scheduled graduate courses for more in-depth study.

MAN 6950   **Capstone Experience in Leading Organizations (3)**
Student team assessment exercise of real organization leading to evaluate report and presentation demonstrating skills required in program.

MAP 5316   **Ordinary Differential Equations I (3)**
Existence and uniqueness theory, properties of solutions, linear systems, stability theory. Sturm-Liouville theory.

MAP 5317   **Ordinary Differential Equations II (3)**
Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

MAP 5345   **Applied Partial Differential Equations (3)**
Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions with emphasis on applications.

MAP 5407   **Methods of Applied Mathematics (3)**
Sturm-Liouville theory, Fourier series, Green's functions, matrix methods for linear systems of ordinary differential equations, and topics from calculus of variations, control theory, numerical solutions of differential equations.

MAP 6205   **Control Theory and Optimization (3)**
Projection theorems and minimum norm problems, convex analysis, duality principle, constrained optimization, finite dimensional linear systems, controllability, optimal control and pontryagin maximum principle

MAP 6356   **Partial Differential Equations (3)**
Advanced topics from: elliptic boundary value problems, semigroup theory, Sobolev spaces, degree theory, regularity, evolution equations

MAR 5001   **MBA Essentials: Marketing (0)**
An overview of basic marketing principles, including the role of marketing in business and society, as well as a description of functions, practices, and concepts associated with marketing.

MAR 6158   **International Marketing Management (3)**

A study of marketing management activities from the perspective of firms doing business across national boundaries. Emphasis is upon aspects of marketing which are unique to international business and problem-solving within an international context.

MAR 6216   **Logistics and Physical Distribution Management (3)**
A study of managerial methods focusing on the establishment and control of optimum customer service levels in the areas of inventory, transportation, fixed facility location, material handling, and information. Component parts of each system are analyzed quantitatively. Reading, lecture, and case analysis.

MAR 6336   **Promotional Management (3)**
Management of the promotional function as part of the total marketing program. Includes a study of relevant buyer behavior concepts, resources and budgets, media, creative aspects, and effectiveness measurements as they relate to the management tasks of developing, implementing, and evaluating promotional strategy.

MAR 6406   **Sales Management (3)**
A study of the sales function of the firm approached from the perspective of the sales manager. Emphasis is placed upon the development of the student's problem-solving, decision-making, and analytical skills.

MAR 6466   **Supply Chain Management (3)**
Overview of key supply chain processes and functions, including logistics, marketing, finance, operations, and procurement, and the implications of supply chain management for creating value for customers and other supply chain members.

MAR 6577   **Seminar in Consumer Behavior (3)**
A study of how individuals make consumption-related decisions, as well as how individuals dispose of products they consume. Ethical issues in consumer decision-making as well as corporate social responsibility in marketing are also discussed.

MAR 6646   **Research for Marketing Managers (3)**
A study of marketing research methods and information systems and their relationship to marketing decision-making. Topics include value and cost of information, sample design, questionnaire design, statistical analysis, and report presentation. Lecture, reading, case analysis, and project.

MAR 6735   **Digital Marketing (3)**
This course focuses on applied digital marketing concepts and strategies. The course will have a broad framework that includes digital marketing, social marketing and includes innovation and analytics

MAR 6815   **Marketing Management (2-3)**
Analysis of operational and strategic planning problems confronting marketing managers. Topics include buyer behavior, market segmentation, information systems, product selection and development, pricing, distribution, promotion, and sales force management.

MAR 6816   **Marketing Strategy (3)**
A study of strategic marketing planning and problem-solving processes as practiced by the modern market-oriented firm. The course is designed to develop marketing problem-solving, decision-making, and planning skills through the extensive use of case analysis.

MAR 6907   **Independent Study (1-19)**
Must have a contract with an instructor.

MAR 6916   **Directed Research (1-19)**

MAR 6936   **Selected Topics in Marketing (1-4)**
The content and organization of this course will vary according to the interests of the faculty and students involved in any given term.

MAS 5145   **Advanced Linear Algebra (3)**
Finite-dimensional vector spaces over arbitrary fields, dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary, and self-ad joint operators and quadratic forms.

MAS 5215   **Number Theory (3)**
Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudo primes, primitive roots, law of quadratic reciprocity, factorization and primality testing algorithms.

MAS 5311   **Algebra I (3)**
Group theory: Sylow theorems; classification of groups of small order. Ring theory: ideals, quotient rings, polynomial rings, Euclidean domains, principal ideal domains and unique factorization.

MAS 6312   **Algebra II (3)**
A continuation of the study of graduate algebra. Topics include principal ideal domains, basic field theory, finite fields, and Galois theory

MAT 5932   **Selected Topics (1-4)**
Each course covers a single topic outside the usual curriculum.

MAT 6908   **Independent Study (1-19)**
Independent study in which student must have a contract with an instructor.

MAT 6911   **Directed Research (1-19)**

MAT 6932   **Selected Topics (1-4)**
Each course covers a single topic outside the usual curriculum.

MAT 6939   **Graduate Seminar (1-4)**
Direction of this seminar is by a faculty member. Students are required to present research papers from the literature.

MAT 6971   **Thesis: Master's (2-19)**

MAT 1033L   **Intermediate Algebra Laboratory (1)**
This course provides students with an opportunity to develop algebraic knowledge needed for further study in several fields such as engineering, business, science, computer technology, and mathematics.

MCB 5206   **Public Health and Pathogenic Microbiology (3)**
A comprehensive survey of pathogenic microbes responsible for disease in man and other animals and the impact of these infectious agents on the public health. These pathogens will be studied with respect to their morphology, cultivation, mechanisms of pathogenicity, laboratory diagnosis, and epidemiology.

MCB 5208   **Cellular Microbiology (3)**
Cellular Microbiology is a lecture-based and literature-based course on the interactions between mammalian cells and microbial pathogens and/or their toxins, with a special emphasis on bacteria.

MCB 5655   **Applied and Environmental Microbiology (3)**
A Study of the applications of microbiology to the food/beverage industry, agriculture, public health and bioremediation. This course is a microbiology elective and has a mandatory field trip.

MCB 5815   **Medical Mycology (3)**
A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.

MCB 6919   **Independent Study (1-19)**
Independent study in which student must have a contract with an instructor.

MCB 6930   **Graduate Microbiology Seminar (1)**
A critical examination and discussion of current literature of microbiology.

MCB 6971   **Thesis: Master's (2-19)**

MCB 3020L   **General Microbiology Laboratory (1)**
The laboratory involves preparation of culture media, staining, pure culture methodology, isolation of microbes from nature, enumeration techniques, resistance to infectious disease.

MCB 4115L   **Determinative Bacteriology Laboratory (2)**
Laboratory associated with Determinative Bacteriology.

MCB 4404L   **Microbial Physiology and Genetics Laboratory (1)**
Laboratory portion of Microbial Physiology and Genetics relating to biochemical characteristics and metabolic capabilities of bacteria. Laboratory only.

MET 2010C   **Weather Studies (4)**

Weather Studies covers the structure, composition, and physical basis of the atmosphere. Topics include atmospheric composition and structure, energy and moisture flows, observations, cloud and precipitation development, circulations and weather systems. This course includes several integrated lab investigations.

MET 4002C   Climatology (4)
An introductory survey of climatology. A qualitative study of the dynamics and general circulation of the atmosphere. Surface and upper level atmosphere linkages in the mid latitudes will be examined. Discussion of the regional climatic patterns and anomalies throughout the world. This course includes several integrated lab investigations.

MET 4012C   Meteorology (4)
The earth's atmosphere and its processes; weather forecasting and analysis; instrumentation. Lecture/lab.

MET 4106C   Climate Studies (4)
Information will be provided on the climate system, the scientific principles that govern climate, its variability and change with implications for society and risk management strategies aimed at countering negative impacts of global climate change. This course includes several integrated lab investigations.

MHF 5306   Mathematical Logic and Foundations I (3)
Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability.

MHF 5402   The Early History of Mathematics (3)
A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.

MHF 5405   History of Modern Mathematics (3)
Traces the development of mathematical ideas in Western culture. Special emphasis is placed on those concepts which led to the Calculus. This course is open to majors and non-majors alike.

MHF 6307   Mathematical Logic and Foundations II (3)
Continuation of MHF 5306.

MHS 5020   Foundations of Mental Health Counseling (3)
A skill-building course on the utilization of one's self in mental health counseling relationships. Includes study of the origin, history, professional functions and current issues in the discipline of mental health counseling.

MHS 5480   Human Growth and Development (3)
Human development theory as applied in psychotherapy and case management rehabilitation, mental health, and addiction settings**.**

MHS 5721   BRIDGE Pro Seminar I (2)

This course is designed to provide students with the necessary skills for successfully applying for and transitioning into a graduate training program in the social and behavioral sciences.

MHS 5722   **BRIDGE Pro Seminar II (2)**
Provide students with the skills for successfully transitioning to a graduate program in behavioral and social sciences It will also provide knowledge that can be applied to the mentored research project being conducted as part of the BRIDGE certificate.

MHS 5745   **Applied Qualitative Research Methods (3)**
This course is designed to provide students with an understanding of applied qualitative research methods and to assist them where appropriate in applying these methods to their mentored research projects being conducted as part of the BRIDGE certification.

MHS 5746   **Applied Quantitative Research Methods (3)**
Reviews quantitative research methods while focusing on the application of such concepts in real research contexts preparing students to understand the nature assumptions processes and ethical application of quantitative methodology.

MHS 5889   **BRIDGE Community Field Experience (2)**
Provide students with the skills for successfully transitioning to a graduate program in behavioral and social sciences It will also provide knowledge that can be applied to the mentored research project being conducted as part of the BRIDGE certificate.

MHS 5905   **Directed Studies (1-4)**
Independent studies on a selected topic.

MHS 6006   **Trends and Principles of the Counseling Profession (4)**
A study of trends in the counseling profession, its philosophical framework, its scope and functions, its organizations and administration. Introduction to basic skills needed in the counseling relationship.

MHS 6027   **Creating Cultural Competence in Behavioral Health Organizations (3)**
The course will explore the need of cultural competence in the provision of behavioral health services for diverse populations. The course will examine culture and ethnicity, multiculturalism, and intercultural communication. The course will define cultural competence from the perspective of current and various approaches of the concept, and examine cultural competence in behavioral health organizations. Case studies of how cultural competence is implemented by different behavioral health organizations will be examined.

MHS 6065   **Issues and Trends in Developmental Disabilities (3)**
This interdisciplinary Disability Studies course provides students with a background in the history of disabilities and an overview of the impact of and latest trends in disabilities across the life span.

MHS 6066   **Sys., Serv. and Supports for Children and Adolescents with DD (3)**

This course provides students with the tools and understanding needed to evaluate service systems for children and adolescents with developmental disabilities. Lessons address services, systems of care, and policies affecting services.

MHS 6067   **EBP in Beh. Hlth for Children & Adolescents with Dev. Disabil. (3)**
This course introduces students to a variety of evidence- based behavioral health practices for children and adolescents with developmental disabilities. Lessons address identification and evaluation of evidence-based practices, research, and ethics.

MHS 6068   **Community-Based Beh Health Interven for Cult Diverse Youth (3)**
This course focuses on behavioral health issues and interventions for culturally diverse youth. Topics include youth and family strengths and needs, research and intervention approaches, and relevant policies at global, national, and local levels.

MHS 6069   **Child & Adolescent Behavioral Health (3)**
Provides an introduction to a variety of topics relevant to child and adolescent behavioral health, including its history, settings for service provision, and various factors that shape best practice approaches to meet the needs of youth and families.

MHS 6070   **Study of Mental Disorders for Counselors (4)**
The purposes of this course are to familiarize the students with the study of mental disorders, learn the most current system of classification of mental disorders, and discuss evidence-based biological and sociocultural treatments for mental disorders.

MHS 6072   **Epidemiology and Prevention in Children's Mental Health (3)**
Provides introduction to epidemiological research methods in children's mental health; prepares professionals to critically evaluate research literature and to design studies to better affect children's mental health. Unrestricted. Nonrepeatable.

MHS 6073   **Child and Adolescent Psychopathology and Resilience (3)**
Students will gain basic knowledge about psychological disorders necessary to assess/treat/serve children, adolescents, and their families. Factors that promote resilience and build competencies will be explored. Unrestricted. Nonrepeatable.

MHS 6095   **Family-Centered Interdisciplinary Practice: SOC (3)**
Provides an overview of a SOC approach to children's mental health; prepares professionals to work in respectful partnership with families/youth and to participate in interdisciplinary teams serving children and their families. Unrestricted. Nonrepeatable.

MHS 6096   **Program Development and Implementation in Children's Mental Health (3)**
Course introduces students to the science of implementation and key frameworks, theories, strategies; includes critical elements, influences, stages applied to carry out successful implementation of initiatives. Unrestricted. Nonrepeatable

MHS 6097   **Financing of Children's Mental Health Services (3)**
Addresses theoretical, evaluative, political issues regarding financing of children's mental health services; will further students' critical thinking about financing strategies/structures that support effective systems of care.
Unrestricted/nonrepeatable.

MHS 6098   **Leadership within Systems of Care (3)**
Introduces students to various theories of leadership and empirical evidence linking leadership competencies to organizational and community success in children's mental health, emphasizing real-world challenges and solutions. Unrestricted. Nonrepeatable.

MHS 6200   **Assessment and Appraisal Procedures (4)**
The study of statistical concepts, assessment instruments and procedures relevant to school and community counseling with an emphasis on standardized test data and the use of an individual case study approach.

MHS 6201   **Applied Behavior Analysis in Complex Community Environments (3)**
Prepares students to recognize factors that may affect the application of behavior analysis principles within and across community settings and to design intervention plans that fit given characteristics of the social and physical context of these home, school and other community settings.

MHS 6311   **Online Services in Counseling and Helping Professions (3)**
To provide students in helping professions with basic and advanced knowledge and skills associated with the provision of online services in counseling and related helping professions. Also to provide training on how to evaluate and design such services.

MHS 6340   **Career Development (4)**
Study of the information service in guidance as it relates to life style and career development. Theories dealing with career planning. Application of educational, vocational, and personal-social information resources to lifelong human development.

MHS 6341   **Career Program Design and Evaluation (3)**
Study of the various components of designing, implementing, managing and evaluating effective career programs.

MHS 6400   **Counseling Theories and Practices (4)**
This course is the study of the nature of the counseling process with emphasis on major theoretical approaches and related personality theories, development of basic counseling skills and supervised practice.

MHS 6409   **Evidence Based Practices in Behavioral & Community Sciences (3)**
Explores and applies strategies used to judge and identify evidence-based practices in assessment, intervention, and therapeutic practices in behavioral health and related areas.

MHS 6410   **Intensive Individualize Positive Behavior Support (3)**
Provides class participants with knowledge and skills necessary to develop, implement, and evaluate the impact of positive behavior support at an individual level including functional behavior assessment and behavior support in various settings.

MHS 6418   **School Counselor Accountability and Curriculum (3)**

This course prepares school counselors to assume their role and responsibilities in meeting the demands of school reform. Students compile instructional guidance units, using evidence-based content and strategies, to facilitate K-12 student development.

MHS 6420   Multicultural Counseling with Diverse Populations (3)
Counseling strategies applied to diverse populations including the use of school and community resources. Each student will select a specific population group for supervised research.

MHS 6421   Counseling Children (4)
Nature of the counseling process with an emphasis on major theoretical approaches, supervised practice, and application. Focus on work with elementary age children and consultations with parents, teachers and other professionals.

MHS 6431   Family Therapy & Techniques (4)
This course concentrates on the theory and application of intervention techniques to family systems. Structured experiences include interviewing, assessing, making therapeutic interventions, observing family interaction, and developing basic aspects in treating families.

MHS 6437   Family Perspectives on Behavioral Health Disparities (3)
Examines behavioral health disparities from a family systems perspective, with consideration of how they are influenced by historical context, generations, immigration, social and physical environmental factors, discrimination, and group heterogeneity.

MHS 6450   Counseling Substance Abuse in School and Community (4)
This course prepares counselors to work with substance abuse issues, including prevention, in schools and community out-patient settings. Includes counseling and program approaches found to be effective in addressing substance abuse.

MHS 6456   Co-occurring Mental and Substance Use Disorders in Child and Adolescent Behavioral Health (3)
This course will investigate factors that affect development of co-occurring disorders in children, as well as those associated with services delivery, at the individual, family, agency, community, and systems levels.

MHS 6470   Human Sexuality Issues for Counselors (4)
Emphases include exploration of various dimensions of human sexuality; dynamics of major individual and societal sexuality issues; theoretical approaches to counseling related to sexuality issues.

MHS 6494   Women's Mental Health (3)
This course focuses on women's mental health and substance use disorders through a detailed examination of the interaction of trauma, mental health, and substance use disorders that affect the lives of women across the life span.

MHS 6508   Wraparound Interventions and the System of Care (3)

Explores the wraparound philosophy and focuses on developing supportive community structures for the delivery of wraparound services. Research, evaluation, and methodology in wraparound interventions are addressed. Unrestricted/nonrepeatable.

MHS 6509   **Group Counseling Theories and Practices (4)**
An experiential study of group structure, group dynamics, methodology, and leadership models applicable to counseling clients in school and community settings. Includes skill building through supervised practice.

MHS 6601   **Consultation for the Counseling Profession (3)**
A study of consultation theory and practice as used by counselors working in schools and mental health facilities, particularly with educators, other professionals, and parents, individually and in groups.

MHS 6605   **Addressing Behavior Challenges in Young Children (3)**
Focuses on the application of promotion, prevention, and intervention framework to promote the social development of young children and address behavioral issues through the Pyramid Model within early childhood and intervention programs/systems.

MHS 6607   **Behavior Consultation and Collaborative Systems Change (3)**
This course provides participants with the knowledge and skills necessary to develop, implement, and evaluate the impact of behavior consultation across a multi-tiered system of support.

MHS 6608   **Schoolwide Positive Behavior Support (3)**
Provides class participants with the knowledge and skills necessary to develop, implement, and evaluate the systemic impact of positive behavior support on the behavioral needs of all students from Pre-K to 12, including those with disabilities.

MHS 6615   **Observational Methods and Functional Assessment (3)**
The course focuses on identifying and using appropriate observational methods based on individual cases, assessing individuals using functional behavior assessment procedures, displaying and interpreting behavioral data, and designing interventions.

MHS 6620   **Counseling in Community Setting (3)**
Study of community counseling within the context of health and human service systems including treatment modalities, administration, and fiscal considerations.

MHS 6626   **Applied Leadership in Child and Adolescent Behavioral Health (3)**
This course will develop student understanding of organizational leadership concepts, theory, and practice. It will focus on opportunities, challenges, and tools for leaders in public and private child and adolescent behavioral health organizations.

MHS 6627   **Contemporary Leadership Issues in Child and Adolescent Behavioral Health (3)**
This course examines contemporary issues of leadership in child and adolescent behavioral health and emphasizes development of leadership skills and analytic approaches in public and private child and adolescent behavioral health organizations.

MHS 6645   **Mental Health Informatics (3)**

This course examines how information technologies and knowledge management affect access to mental health and impact policy. Current applications include the management of mental health databases and the development of behavioral telehealth programs.

MHS 6700 **Legal and Ethical Issues in the Counseling Profession (3)**
Study of legal, ethical and related issues affecting the role and responsibilities of counselors in schools and mental health facilities.

MHS 6701 **Applied Behavior Analysis Basic Principles (3)**
This course provides the student with an introduction to the concepts and principles of Behavior Analysis. It covers basic behavioral principles and then discusses behavioral procedures with an emphasis on the principles underlying each procedure.

MHS 6706 **Child and Adolescent Behavioral Health Policy (3)**
This course focuses on critical policy issues affecting child and adolescent behavioral health services in the U.S. Historical, legislative and policy making issues will be discussed, and U.S. policies will be examined within an inclusive global context.

MHS 6708 **Experimental Analysis of Behavior 1 (3)**
This seminar provides students with a survey of core concepts in the experimental analysis of behavior often with special emphasis on methodological and conceptual issues and their translation to the study of socially important problems.

MHS 6709 **Experimental Analysis of Behavior 2 (3)**
This course is part II in a 2-part sequence on major concepts from the experimental analysis of behavior. This course is intended to provide students with systematic opportunities to delve more deeply into specific topics.

MHS 6732 **Research and Evaluation in Child and Adolescent Behavioral Health (3)**
This course covers foundational concepts in research methods and program evaluation that are necessary to understand and critically evaluate the research of others and to plan and conduct research and evaluation in child and adolescent behavioral health.

MHS 6742 **Community Based Research & Evaluation in Behavioral Sciences (3)**
The study of community-based participatory research & evaluation (CBPRE) in behavioral sciences; critical issues in research design, ethics, & use of CBPRE to promote social change & public policy within a behavioral health context.

MHS 6743 **Qualitative Research Foundations (3)**
This course provides students with an understanding of the foundations of qualitative research and how to conduct qualitative research. The course also assists them, where appropriate, in applying qualitative methods to their doctoral dissertation.

MHS 6744 **Single Case Experimental Design (3)**
The purpose of this course is to introduce the fundamentals of behavior-analytic research methods. The course will review single-case time series methodologies to assess various dimensions of behavior and evaluate the effects of interventions on behavior.

MHS 6780   **Ethics in Applied Behavior Analysis (3)**
The purpose of this course is to provide students with preparation for ethical and professional issues in applied behavior analysis. It is designed to help the students prepare for Board Certified Behavior Analyst exam.

MHS 6800   **Practicum in Counseling Adolescents and Adults (4)**
Supervised counseling for integration and application of knowledge and skills gained in didactic study.

MHS 6885   **Internship in Community Agency Counseling (3-6)**
Field experience involving one semester of full-time participation in the counseling and related activities of a public or private agency providing mental health services to the community.

MHS 6887   **Internship in Career and College Counseling (3-6)**
Field experience (1 semester full-time or 2 semesters of part time participation) in career and/or college counseling and related activities of a public or private career center or college center/site/agency. It is restricted to counseling students.

MHS 6900   **Special Topics in Planning, Evaluation and Accountability (1-3)**
This course will address selected special topics. Prerequisite is at least three credits in research and evaluation courses at the graduate level.

MHS 6901   **Independent Studies in Mental Health Studies (1-4)**
Students conduct independent study in an area related to behavioral health under the guidance of a faculty member. Open to all majors/repeatable for a maximum of 4 credits.

MHS 6905   **Individual Study (1-4)**
Independent study, research, and experience relating to professional counseling under the supervision of a member of the Counselor Education faculty.

MHS 6906   **Independent Study in Behavior Analysis Applications in Community Settings (1-6)**
Independent study in behavior analysis provides students opportunities to focus on special areas of study under a contractual agreement with a faculty member.

MHS 6915   **Directed Research in Behavioral and Social Sciences (1-6)**
Students work directly with a faculty mentor in a one-on-one research experience in the area of behavioral and social sciences research and design, conduct, and disseminate an independently designed and conducted research project.

MHS 6930   **Seminar in Guidance (1-4)**
Significant issues in the field of guidance; will document student's effectiveness in providing effective programs that contribute to the academic missions of the school. Repeat up to 4 hours.

MHS 6937   **Behavior Theory (3)**

This is a masters-level seminar that provides an in-depth examination of the science, philosophy, and scope of radical behaviorism as presented by BF Skinner through his seminal texts About Behaviorism, Science and Human Behavior, and Verbal Behavior.

MHS 6938   **Applied Behavior Analysis in Community Settings (1-4)**
Addresses selected topics in behavior analysis applications in complex community environments through lecture, class discussion, and supervised special projects.

MHS 6940   **Practicum in Behavior Analysis in Community Settings (2-4)**
Supervised field work in the application of behavior analysis to children, adults and/or their families in complex community environments, including home, school, employment and neighborhood settings.

MHS 6941   **Applied Field Experience Seminar (3-6)**
The Applied Field Experience Seminar provides students with an opportunity to integrate, synthesize, and apply knowledge gained through MS coursework through a field experience relevant to each student's area of specialization and interest.

MHS 6942   **Practicum:EBP & Service Delivery for Child.& Adol. with DD (3)**
This practicum allows students to apply, integrate, and synthesize knowledge about evidence-based practices being used in behavioral health settings that provide services to children and adolescents with developmental disabilities.

MHS 6945   **Leadership Prac in Agen Serv Chil & Adol with Dev Disabilities (3)**
This practicum is designed to provide students with experience in policy, leadership, and administration in an agency that serves children and adolescents with a developmental disability.

MHS 6970   **Thesis: Masters/Educational Specialist (2-19)**
Thesis research hours under the supervision of Counselor Education faculty.

MHS 6971   **Thesis in Applied Behavior Analysis (2-6)**
The Thesis credits will provide students the opportunity to conduct independent applied behavior analysis single subject experimental design studies, or special research projects related to applications in community settings.

MHS 6972   **Thesis in Child and Adolescent Behavioral Health (2-6)**
The purpose of the thesis in child and adolescent behavioral health is to provide an opportunity for students to incorporate knowledge gained in the degree program to a culminating work.

MMC 5146   **Web Publishing (3)**
Introduces mainstream web technologies and programming languages used for publishing news, digital content and information on the web. Examine and question the nature of Web publishing and what impact it has on society at large and on us as individuals.

MMC 5147   **Web Publishing 2 (3)**

Web Publishing 2 is an advanced course in creating dynamic news and information websites and pursuing data-driven journalism. Students will learn about essential database technologies, SQL (structured query language), and server-side scripting and APIs.

MMC 6136   Video Storytelling 2 (3)
Advanced video shots, audio, post-production editing and industry work flows will be covered. The art of storytelling through a lens, on-camera interviewing techniques, and tight editing for a "two train" story arc will be emphasized. VS1 required.

MMC 6206   Mass Communications Ethics (3)
An introduction to fundamental ethical principles and an application of those principles to a variety of situations in journalism, broadcasting, advertising, and public relations.

MMC 6306   International Communications Seminar (3)
Mass communications as national and international systems; flow of the news, international news communications networks; satellite communications; overseas activities of American media interest; international propaganda; communication and national development; international media organizations and their activities.

MMC 6400   Mass Communication Theory (3)
The study of mass communication theories, structures, influences, and their relationships to institutions in American society.

MMC 6415   Strategic Communication Media (3)
This concepts course emphasizes strategic thinking in media planning for communication campaigns. Students learn the process of critically evaluating media, purchasing media outlets, scheduling media weight and evaluating media impact. Nonrestricted.

MMC 6418   Strategic Message Design (3)
This seminar covers the development of strategic messages for particular audiences to accomplish communication objectives. Topics are research, planning, persuasion, message strategies, and message evaluation. Unrestricted and not repeatable for credit.

MMC 6421   Research Methods in Mass Communications (3)
The theory and practice of quantitative, historical, and critical research methods, and their applications to the study of mass communications. Emphasis in quantitative methods on experimental and survey research, statistical analysis, and evaluation of data.

MMC 6447   Quantitative Research Methods in Mass Communications (3)
Examination of the process and techniques involved in quantitative data collection and analysis for mass communication purposes.

MMC 6448   Qualitative Research Methods in Mass Communications (3)
Examination of qualitative research methods in mass communications with emphasis on interviewing, observational methods, and data interpretation.

MMC 6449   **Advertising Analytics (3)**
Using data analytics to develop, optimize, and assess outcomes of advertising strategies for brands; the scientific approach to marketing with hands-on use of technologies such as databases, analytics and computing systems to collect, analyze, and act.

MMC 6607   **Public Opinion and the Mass Media (3)**
The influence of public opinion on private and public institutions in a democratic society and the role of the mass media in opinion formation. The nature of persuasion in establishing or modifying public opinion, and perspectives on the social responsibilities of communications.

MMC 6612   **Seminar: Law and the Mass Media (3)**
Interrelationships of the media and government at the judicial, executive, and legislative levels. Focus is on legal limitations and privileges of the media; theory and philosophy of the First Amendment; research procedures in court and administrative agency documents.

MMC 6900   **Directed Reading in Mass Communications (1-3)**
Readings in specialized areas of mass communications as agreed to by the instructor and the student by contract.

MMC 6910   **Individual Research in Mass Communications (1-3)**
Independent study in which the student must have a contract with the instructor to study an area not covered by other courses in the graduate curriculum.

MMC 6920   **Introductory Mass Communications Seminar (3)**
Introduction to the aims and methodologies of graduate study in mass communications, its development and relationship to the arts and sciences, and the relationship of the scholarly aspects of media studies to professional media practice; bibliographical resources, and overview of research methods and scholarly style.

MMC 6936   **Selected Topics in Mass Communications (3)**
Courses designed to meet current, specific topics of interest to students and instructors.

MMC 6945   **Professional Practicum (1-3)**
Practicum will consist of placement with a media-related organization selected by the student and approved and supervised by the graduate advisor.

MMC 6950   **Applied Research Project (1-6)**
Completion of a major applied communication research project under supervision. Topic will be selected according to student's needs and interests.

MMC 6951   **Final Project (3)**
This course represents the culminating, or capstone project, for students in digital journalism. Its deliverable will be a professional website that displays command of all basic digital technologies, including web design, audio and video.

MMC 6971   **Thesis: Master's (2-3)**

MSL 1001C   **Leadership and Personal Development (2)**
Introduces to personal challenges & competencies critical to effective leadership; teaches personal development life skills relative to leadership, officership, & Army profession; focuses on gaining understanding of ROTC Program & its purpose in Army.

MSL 1002C   **Introduction to Tactical Leadership (2)**
Presents leadership basics (eg: setting direction, problem-solving, listening, briefs, giving feedback & use of effective writing skills); explores dimensions of leadership values, attributes, skills & actions in context of practical hands-on exercises.

MSL 2101C   **Innovative Team Leadership (2)**
Explores creative & innovative tactical leadership strategies & styles. Develops knowledge of leadership values & attributes by understanding Army rank, structure, & duties. Broadens knowledge of land navigation & squadtactics.

MSL 2102C   **Foundations of Tactical Leadership (2)**
Examines challenges of leading tactical teams in complex current operating environment; highlights dimensions of terrain analysis, patrolling & operation orders; develops greater self-awareness, communication & team building skills.

MSL 3201C   **Adaptive Team Leadership (3)**
Challenges to study, practice, & evaluate adaptive team leadership skills as demands of the ROTC LDAC are presented. Uses challenging scenarios to develop self-awareness & critical thinking skills. Provides specific feedback on leadership abilities.

MSL 3202C   **Leadership in Changing Environments (3)**
Challenges to study, practice, & evaluate adaptive leadership skills as demands of ROTC Leader Development Assessment Course are presented. Develops self-awareness & critical thinking skills with challenging scenarios. Provides feedback on leader skills.

MSL 4301C   **Developing Adaptive Leaders (3)**
Develops ability to plan, & assess complex operations, functioning as member of a staff; provides performance feedback to subordinates; gives opportunities to assess risk, make ethical decisions, & lead fellow cadets; prepares in becoming Army officer.

MSL 4302C   **Leadership in a Complex World (3)**
Explores dynamics of leadership in complex situations of current military operations in current operating environment; examines differences in courtesies, military law, principles of war & rules of engagement in face of international terror & more.

MTG 5316   **Topology I (3)**
Topological spaces, continuity, homeomorphisms, connectedness, compact spaces, separation axioms, product spaces.

MTG 6256   **Differential Geometry (3)**
Exterior calculus, differentiable manifolds, integration of differential forms, surfaces in 3-space, covariant derivative, curvature, matrix groups.

MTG 6257   **Differential Geometry II (3)**

A continuation of the study of graduate differential geometry, covering additional topics such as Tensor Analysis, Riemannian Geometry, Lie Groups, and Lie Algebras.

MTG 6317   **Topology II (3)**
A continuation of the study of graduate topology. Topics include properties of the fundamental group; elements of homotopy theory and homology theory.

MUC 5625   **Jazz Composition (2)**
Private instruction in original composition.

MUC 6251   **Composition (4)**
Private instruction in original composition. Required of composition majors.

MUC 6444   **Electronic Music/Analog/Digital Systems Research I (3)**
State-of-the-art compositional and performance applications; new concepts of electronic music synthesis; documentation and critical analysis of new repertory.

MUC 6445   **Electronic Music/Analog/Digital Systems Research II (3)**
State-of-the-art compositional and performance applications; new concepts of electronic music synthesis; documentation and critical analysis of new repertory.

MUC 6448   **Electronic Music: Computer Music Research (3)**
For advanced students already experienced in Electronic Music, this class focuses on creative and research techniques in Computer Music, with special emphasis in multimedia collaboration across disciplines.

MUC 6626   **Jazz Composition (4)**
Private instruction in original composition.

MUC 6930   **Seminar in Jazz Compositional Styles (2)**
A seminar study of the major compositional figures in jazz. Oriented toward the continuing development of students' own writing ability.

MUE 6080   **Foundations and Principles Of Music Education (3)**
Investigation of historical, philosophical, and psychological foundations of music education.

MUE 6097   **Music, Medicine, and Myths (2)**
The course focuses on integration of the body, mind, and emotion in music learning and performing; causes, prevention, and treatment of music-related injury; rehabilitation and effective management of performance anxiety.

MUE 6116   **Advanced Techniques and Research in K-12 General Music (3)**
This course focuses on teaching and learning processes in general music education K-12. Students examine research and best practices in the field with the aim of improving their own skills in developing comprehensive musicianship in students.

MUE 6336   **Advanced Techniques and Research in Vocal/Choral Music Education (3)**

Course provides for graduate students in music education the opportunity to examine current research related to the teaching of secondary school vocal music, evaluate curricula, music materials, and teaching methods that will enable them to develop a vocal music program that emphasizes musical sensitivity.

MUE 6347   **Advanced Techniques and Research in Instrumental Music Education (3)**
This course focuses upon teaching and learning processes in instrumental music, and the stimulation of student thought regarding the variety of roles a music teacher may assume to assist students to become musically literate and aesthetically sensitive.

MUE 6428   **Learner-Centered Approaches in Music Education I (6)**
This course is the introductory experience for the Master of Arts in Music Education degree program at the University of South Florida.

MUE 6429   **Learner-Centered Approaches in Music Education II (3)**
This course serves as the culminating experience for the Master of Arts in Music Education degree program at the University of South Florida.

MUE 6648   **Techniques and Research in Alternate Music Education Methods (3)**
An examination on new and innovative models of music instruction including (but not limited to): composition courses; high school general music formats; general arts structures; and, alternative performing ensembles.

MUE 6694   **Multimedia Methods in Music Education (3)**
Examines recent improvements in multimedia and suggest methods by which these might form the basis for non-traditional music curriculums for k-12 schools.

MUE 6785   **Research Design and Methods in Music Education (3)**
An overview of research traditions and the common research approaches used by music education researchers. Students learn about different types of research through various modules and reading and discussion.

MUE 6787   **Literature Review in Music Education (3)**
This course is designed to assist the student in developing research skills focused upon the development of a literature review in music education.

MUE 6788   **Research Data Collection in Music Education (3)**
This course is designed to assist the student in developing research skills focused upon data collection and analysis of data in music education.

MUE 6789   **Research Report Writing in Music Education (3)**
This course is designed to guide students in writing up their research report after analyzing their data.

MUE 6906   **Independent Study: Music Education (1-6)**
Independent study in which students must have a contract with an instructor.

MUE 6942   **Graduate Internship in Music Education (6)**

This course is designed to provide the student teaching experience for music education graduate students pursuing an MA - Plan II, leading to certification.

MUE 6971   **Thesis: Masters/Eds (2-19)**

MUG 6205   **Advanced Choral Conducting (2)**
Combination of private study and laboratory experiences designed to teach conducting technique and rehearsal skills while encouraging leadership qualities in the choral conductor.

MUG 6307   **Advanced Wind Conducting I (2)**
Combination of lecture, seminar, laboratory and individual instruction experiences designed to provide development of advanced conducting skills.

MUG 6308   **Advanced Wind Conducting II (2)**
Continued development of graduate-level conducting students in advanced wind conducting techniques, including score study and rehearsal techniques.

MUG 6309   **Advanced Orchestral Conducting I (2)**
Introduction to graduate-level advanced orchestral conducting techniques, including score study and rehearsal techniques, with an emphasis on classroom applications.

MUG 6315   **Advanced Orchestral Conducting II (2)**
Continued development of graduate-level conducting students in advanced orchestral conducting techniques, including score study and rehearsal techniques.

MUG 6930   **Advanced Choral Techniques (3)**
Study designed to provide rehearsal techniques, methods, and resources for the choral conductor. When possible, the choral faculty will present this course in a team-teaching fashion.

MUH 6057   **Intercultural Music in the 20th And 21st Centuries (3)**
An in-depth investigation of composers born after c. 1880, from all parts of the world, who have attempted to integrate elements from two or more cultures into their compositions.

MUH 6376   **The History of Blues and Rock (3)**
A study of the history of rock music: the essence of its musical language, its roots, evolution, styles, influences, social/cultural context, etc.

MUL 6375   **Twentieth Century Music Literature (3)**
A study of the literature, compositional techniques, and music philosophies of the major 20th century composers from Debussy to the present.

MUL 6410   **Keyboard Repertory I (2)**
A study of style, history, and performance practice in keyboard repertory including masterworks of all periods.

MUL 6411   **Keyboard Repertory II (2)**

A study of style, history, and performance practice in keyboard repertory including masterworks of all periods.

MUL 6505   **Symphonic Literature (3)**
A chronological study of the development of orchestral music; analysis and study of major works from a stylistic and biographical perspective.

MUL 6555   **Band/Wind Ensemble Literature (3)**
Combination of seminar and classroom experiences designed to provide depth in historical study of band and wind ensemble literature. Rpt. Up to 9 hrs.

MUL 6565   **Chamber Music Literature (2)**
This course covers the standard chamber music repertoire for piano and strings and focuses on specific chamber works--from the baroque sonata until major 20th century pieces.

MUL 6624   **Song Literature (2)**
Song Literature covers the standard repertoire for classical voice. Open to all M.M. voice majors; other students may petition to enroll with instructor approval. This course is not repeatable for credit.

MUL 6655   **Choral Literature 1500-1800 (3)**
A study and analysis of choral music from 1500-1800.

MUL 6656   **Choral Literature 1800-present (3)**
A study and analysis of choral music from 1800-present.

MUL 6671   **Opera Literature (2)**
A chronological study of the development of opera from 1600 to the present; emphasis on the technical, stylistic, and performance aspects of opera.

MUN 6135   **Symphonic Band (1)**
The Symphonic Band fosters the highest performance standards of wind and percussion literature. Although made up primarily of music majors, the course is open to all university students by comprehensive auditions. It is repeatable for up to 8 credits.

MUN 6145   **Wind Ensemble (1)**
Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.

MUN 6215   **University Orchestra (1)**
Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.

MUN 6315   **University Singers (1)**

Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.

MUN 6345   **Chamber Singers (1)**
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.

MUN 6385   **University-Community Chorus (1)**
Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.

MUN 6416   **String Quartet (1)**
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.

MUN 6429   **Woodwind Quintet (1)**
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.

MUN 6435   **Brass Choir (1)**
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.

MUN 6436   **Brass Quintet (1)**
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.

MUN 6445   **Percussion Ensemble (1)**
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.

MUN 6446   **Marimba Ensemble (1)**
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.

MUN 6455   **Piano Ensemble (1)**
Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.

MUN 6477   Collegium Musicum (1)
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.

MUN 6715   Jazz Ensemble (1)
Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.

MUN 6716   Jazz Chamber Ensemble (1)
Open to all university graduate students with the necessary proficiency in their performance media; study and performance of music for small combinations of voices, string, woodwind, brass or percussion instruments, and piano.

MUO 6505   Opera Workshop (1)
Open to all university students with the necessary proficiency in their performing media; study and performance of music for large combination of voices, string, woodwind, brass or percussion instruments.

MUS 5905   Directed Study (1-4)
Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.

MUS 6525   Computer Applications in Music Education (3)
An examination of the teaching and learning processes in music as they are affected by music technology. Through the course, students will explore a variety of music software types and investigate the potential role of technology in music education.

MUS 6793   Techniques of Research in Music and Music Education (3)
A study of the methods of research and professional bibliography and with an individual, formal project as a terminal requirement.

MUS 6806   Fit to Play: Mind-Body Integration for Musician (2)
This course is open to graduate performance majors, designed to help develop healthy, injury-free and effective life and practice style primed for the rigorous physical and mental regimen required in music study.

MUS 6906   Independent Study (1-19)
Independent study in which student must have a contract with an instructor.

MUS 6910   Directed Research (1-19)
Directed research topics in various areas of Music. The student must have a contract with a faculty member that outlines the work to be completed, timeline and assessment to be used.

MUS 6971   Thesis: Master's (2-19)

MUS 6976   Graduate Recital (2)

MUT 6545   **Analysis of 18th and 19th Century Music (3)**
An in-depth examination of the music of the 18th and 19th centuries. Students provide detailed analyses of selected works and read appropriate scholarly writings. Additional activities may include in-class presentations and a research paper.

MUT 6575   **Analysis of Twentieth Century Music (3)**
An in-depth examination of representative works. Students will learn analytical techniques such as set theory and 12-tons techniques, read scholarly articles, give in-class presentations, and write a research paper to gain an understanding of the theoretical and musical trends of the 20th-century.

MUT 6586   **Critical Analysis-History (2)**
A study of historical developments of music in western civilization. Emphasis on a different historical period each semester, from the Middle Ages through the Romantic Period.

MUT 6629   **Schenkerian Analysis (3)**
A study in theories and analytical methods developed by German theorist Heinrich Schenker. Students are expected to demonstrate their knowledge of these theoretical concepts by analyzing relevant literature, investigating scholarly articles, giving class presentations, and writing a research paper.

MUT 6665   **Seminar Jazz Styles and Analysis (2)**
A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of students' soloing ability.

MUT 6751   **Teaching of Music Theory (3)**
Comparative study of teaching, techniques, procedures, and materials used in teaching visual and aural theory.

MUT 6760   **History of Music Theory (3)**
Evolutionary history of the materials of western music including tuning systems, scales, models, tonality, rhythm, counterpoint and harmony; also the exploration of treatises and theorists contributing to the evolution.

MVB 5251   **Applied Trumpet (2-4)**
Private and class instruction.

MVB 5252   **Applied French Horn (2-4)**
Private and class instruction.

MVB 5253   **Applied Trombone (2-4)**
Private and class instruction.

MVB 5254   **Applied Euphonium (2-4)**
Private and class instruction.

MVB 5255   **Applied Tuba (2-4)**

Private and class instruction.

MVB 6451 **Applied Trumpet (4)**
Required of all applied music majors. Private and class instruction.

MVB 6452 **Applied French Horn (4)**
Required of all applied music majors. Private and class instruction.

MVB 6453 **Applied Trombone (4)**
Required of all applied music majors. Private and class instruction.

MVB 6454 **Applied Euphonium (4)**
Required of all applied music majors. Private and class instruction.

MVB 6455 **Applied Tuba (4)**
Required of all applied music majors. Private and class instruction.

MVJ 5250 **Applied Jazz Piano Secondary (2)**
Private and class instruction.

MVJ 5253 **Applied Jazz Guitar Secondary (2)**
Private and class instruction.

MVJ 5254 **Applied Jazz Bass Secondary (2)**
Private and class instruction.

MVJ 5259 **Applied Jazz Percussion Secondary (2)**
Private and class instruction.

MVJ 5951 **Applied Jazz Performance (2)**
Private and class instruction.

MVJ 6460 **Applied Jazz Piano Major (4)**
Private and class instruction.

MVJ 6463 **Applied Jazz Guitar (4)**
Private and class instruction.

MVJ 6464 **Applied Jazz Bass (4)**
Private and class instruction.

MVJ 6469 **Applied Jazz Percussion (4)**
Private and class instruction.

MVJ 6952 **Applied Jazz Performance (4)**
Private and class instruction.

MVK 5251 **Applied Piano (2-4)**
Private and class instruction.

MVK 6451   **Applied Piano (4)**
Required of all applied music majors. Private and class instruction.

MVK 6650   **Graduate Piano Pedagogy I (2)**
Emphasis on techniques used in teaching the individual student in performance.

MVK 6651   **Graduate Piano Pedagogy II (2)**
Emphasis on techniques used in teaching the individual student in performance.

MVP 5251   **Applied Percussion, Secondary (2-4)**
Required of all applied music majors. Private and class instruction.

MVP 6451   **Applied Percussion (4)**
Required of all applied music majors. Private and class instruction.

MVS 5251   **Applied Violin (2-4)**
Private and class instruction.

MVS 5252   **Applied Viola (2-4)**
Private and class instruction.

MVS 5253   **Applied Cello (2-4)**
Private and class instruction.

MVS 5254   **Applied Double Bass (2-4)**
Private and class instruction.

MVS 6451   **Applied Violin (4)**
Required of all applied music majors. Private and class instruction.

MVS 6452   **Applied Viola (4)**
Required of all applied music majors. Private and class instruction.

MVS 6453   **Applied Violoncello (4)**
Required of all applied music majors. Private and class instruction.

MVS 6454   **Applied Double Bass (4)**
Required of all applied music majors. Private and class instruction.

MVV 5251   **Applied Voice (2-4)**
Private and class instruction.

MVV 6451   **Applied Voice (4)**
Required of all applied music majors. Private and class instruction.

MVV 6652   **Voice Pedagogy (2)**

Voice Pedagogy covers the fundamentals of the teaching of singing. Open to all M.M. voice majors; other students may petition to enroll with instructor approval. This course is not repeatable for credit.

MVW 5251   **Applied Flute (2-4)**
Private and class instruction.

MVW 5252   **Applied Oboe (2-4)**
Private and class instruction.

MVW 5253   **Applied Clarinet (2-4)**
Private and class instruction.

MVW 5254   **Applied Bassoon (2-4)**
Private and class instruction.

MVW 5255   **Applied Saxophone (2-4)**
Private and class instruction.

MVW 6451   **Applied Flute (4)**
Required of all applied music majors. Private and class instruction.

MVW 6452   **Applied Oboe (4)**
Required of all applied music majors. Private and class instruction.

MVW 6453   **Applied Clarinet (4)**
Required of all applied music majors. Private and class instruction.

MVW 6454   **Applied Bassoon (4)**
Required of all applied music majors. Private and class instruction.

MVW 6455   **Applied Saxophone (4)**
Required of all applied music majors. Private and class instruction.

NSC 1101L   **Naval Science Laboratory (0)**
A weekly two-hour laboratory covering professional and military subject matter. Attendance is mandatory for all midshipmen.

NSC 2212C   **Navigation/Naval Operations I: Navigation (3)**
Piloting and celestial navigation theory, principles, and procedures. Tides, currents, weather, use of navigation instruments and equipment, and practicum. Laboratory required.

NSC 3214C   **Navigation/Naval Operations II: Seamanship and Ship Operations (3)**
International and inland rules of the road; relative motion-vector analysis; ship handling, employment, and tactics, afloat communications; and operations analysis. Laboratory required.

OCB 6050   **Biological Oceanography (3)**

Study of life in the oceans, its rates and processes, and its interaction with the physical and chemical environment. Lec.

OCB 6068   **Fish Biology (3)**
This course introduces students to the taxonomy, evolution, anatomy, sensory ecology, physiology, behavior, habitat use, reproduction, larval dynamics and ecology of fishes. Evaluation is based on exams and practical exercises.

OCB 6567   **Phytoplankton Ecology (3)**
An introduction to the physiology and ecology of marine phytoplankton. Emphasis will be on those variables and interactions that regulate photosynthesis, production, nutrient kinetics and regeneration, growth, spatial distribution, losses, and succession.

OCB 6626   **Dynamics of Marine Ecosystems (3)**
The objective of this course is to examine a broad range of topics related to understanding how bottom-up (physical processes) and top-down (predation) processes influence marine ecosystem dynamics.

OCB 6716   **Population Dynamics (3)**
This course provides instruction in population modeling as applied to fishery resources. Population dynamics synthesizes information on life history, fishery monitoring and resource surveys using mathematical models.

OCB 6671L   **Methods in Biological Oceanography (1)**
To acquaint students with field and laboratory equipment and techniques currently used in biological oceanography. Emphasis will be on field problems, especially those requiring research at sea.

OCC 6050   **Chemical Oceanography (3)**
The ocean as a chemical system, including composition, physical-chemical aspects, role of nutrients, trace metals, interaction between bottom and overlying water, organic matter, and stable and radioactive isotopes. Lec

OCC 6057   **Marine Pollution (3)**
Marine pollutant sources, reservoirs, transport processes, and dynamics. Topics include heavy metals, chlorinated hydrocarbons, radioactivity, petroleum, pathogens, and thermal pollution including functional and physiological responses of marine organisms.

OCC 6216   **Marine Organic Chemistry (3)**
Distribution and biogeochemical cycling of organic matter in the oceans. Topics include carbohydrates, proteins, lipids, humics, pheromones, interaction with trace metals, isotopic fractionation, microbial alterations, and biochemical tracers.

OCC 6057L   **Methods in Chemical Oceanography (1)**
An intensive study of the use and limitations of field and laboratory equipment that is a standard part of chemical oceanographic research into the behavior of dissolved and particulate constituents in seawater.

OCC 6111C   **Applications of Gas Chromatography and Mass Spectrometry in Marine Science (3)**

Analytical techniques of high resolution gas chromatography and combined gas chromatography-mass spectrometry are applied to problems in Marine Science. Theoretical aspects of the techniques are covered in lectures, while detailed experimental procedures are taught and practiced in the laboratory.

OCE 6048   **Scientist in the Classroom (1-4)**
Provides students with a theoretical framework, practical knowledge, and skills required to successfully design, implement, and evaluate effective science teaching and learning.

OCE 6085   **Ocean Policy (2)**
Learn about the community of people involved in marine affairs; the use of the sea and coast; current technology and the major policy issues related to the technology trends, and identify multiple sources of information available to students.

OCE 6565   **Applied Multivariate Statistics (3)**
The focus of this course is hands-on analysis of large, high-dimensional marine ecological and environmental data sets using a suite of distribution-free methods.

OCE 6609   **Data Analysis Methods (3)**
This course introduces students to common statistical techniques like linear regression, Fourier series, low-pass filtering, optimal interpolation, and principal component analysis that are commonly used to analyze time-series and mapped data.

OCE 6908   **Independent Study (1-10)**
Independent study in which students must have a contract with an instructor.

OCE 6921   **Professional Development I (2)**
This 2-credit course is intended for new graduate students (or students who have only completed one year in the program). This course will cover "grad school basics" - everything you need to know for having a successful graduate experience here at USF.

OCE 6934   **Selected Topics in Oceanography (1-3)**
Special topics in Biological, Chemical, Geological, and Physical Oceanography.

OCE 6950   **Teaching the Broader Impacts of Ocean Sciences (1-4)**
This experiential learning course is designed to teach graduate students how to prepare research grants, develop lab, field-based, and in classroom lesson modules to effectively translate science concepts to their students.

OCE 6971   **Thesis: Master's (2-19)**

OCE 6972   **Directed Research (1-19)**

OCE 6609L   **Data Analysis Programming (1)**
Data Analysis Programming

OCE 6940C   **Experiential Learning in Marine Science (1-4)**

Demonstrates marine science teaching protocols via the examination of marine science concepts and inquiry-based learning strategies through team building, lab-based research experiences, and field explorations to local marine environments.

OCE 6949C   **Developing and Teaching a STEM Course (1-4)**
Designed to enhance participants' science teaching and science communication skills. The course will provide students with the opportunity to develop the modules necessary to teach their first formal STEM Course.

OCG 6051   **Geological Oceanography (3)**
Marine geology including plate tectonics; coastal, shelf and pelagic sedimentation; geochemical cycling; and sedimentary history of the ocean basins. Lec

OCG 6080   **Plate Tectonics (3)**
An overview of the Plate Tectonic theory, including such topics as: geometry of Plate Tectonics, tectonics on a sphere, past plate motions, seismology, oceanic gravity, geochronology, heat flow, oceanic lithosphere, ridges, transforms, trenches, oceanic islands, and continental lithosphere.

OCG 6664   **Paleoceanography (3)**
The study of the development of the ocean system through geologic history, including tectonic framework, sea level history, paleoclimatology, paleocirculation within the ocean basins, and the evolution of marine biota.

OCG 6668   **Evolution and Ecology of Reefs (3)**
Advanced course in ecology and evolution of reef communities. Topics include environmental controls on reef development, basic components of modern reef communities, and how those components have changed through geologic time.

OCG 6551C   **Scanning Electron Microscopy: Theory and Technique (4)**
Theory and practical application of the scanning electron microscope and the energy dispersive X-ray analyzer. Emphasis is on independent operation of the instruments, preparation techniques for specimens, and interpretation of results.

OCG 6656C   **Marine Micropaleontology (3)**
Introduction to the microscopic marine fauna and flora found in the fossil sedimentary record. Emphasis is placed on the ecology, paleoecology, paleontology, and biostratigraphic record of calcareous and siliceous microfossils

OCP 6050   **Physical Oceanography (3)**
The world ocean including its morphology, physical properties, currents, waves, tides, heat and water budgets, and related topics. Lec.

ORI 5930   **Topics in Performance Genres (3)**
Variable topics course.

ORI 6018   **Performance Art (3)**
Explores historical, theoretical, and critical perspectives on performance art in the US.

ORI 6020   **Performing Social Resistance (3)**
Explores performance as a site of and means for creating social resistance and change.

ORI 6107   **Texts in Performance (3)**
Explores contemporary literary texts through dramatic analysis, live performance, adaptation and staging strategies.

ORI 6250   **Performance and Technology (3)**
Explores the relationship between live and mediated performance, the use of media technologies in performance, and the place of live performance in a Western mediated society.

ORI 6456   **Performance Theory (3)**
A survey of modern and contemporary approaches to performance as constitutive of identity, verbal art, communication, and culture.

ORI 6506   **Performance Criticism (3)**
Focuses on the development and honing of critical skills employed in response to performance. These skills can be applied to a multitude of acts and texts.

PAD 5035   **Issues in Public Administration and Public Policy (3)**
Selected issues and topics in Public Administration and Public Policy.

PAD 5044   **Environment of Public Administration (3)**
Examination of the legal, political, and ethical environment in which public managers work.

PAD 5605   **Administrative Law and Regulation (3)**
An examination of the constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. An examination of the Constitutional and statutory base and limitations of the administrative process, administrative adjudication, rule-making, and the judicial review of such actions. Attention is also directed to regulatory commissions, their functions, powers, management and relationship with other branches of government

PAD 5700   **Research Methods in Public Administration (3)**
Research design; skills in public agencies. Must be prepared to demonstrate proficiency in EXCEL, Access, and other relevant software programs.

PAD 5807   **Urban and Local Government Administration (3)**
Analysis of the role of the administrator at the municipal level, the division of functions, policy formation, alternative governmental structures, effects on the administrative process.

PAD 5836   **Comparative Public Administration (3)**
How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.

PAD 6041 Ethics and Public Service (3)

The purpose of this course is to provide students with an understanding of the ethical dimensions of public service, with particular attention focused on the role, duties and responsibilities of the public administrator. Additionally, the course seeks to help students develop awareness, skill, and value framework to act ethically in their public service and management roles.

PAD 6056 Practice of Public Management (3)

An integrative course applying the skills, knowledge, and values taught in the core curriculum and applied to public issues or problems.

PAD 6060 Public Administration Theory (3)

Examination of major theoretical and practical developments in public administration with focus on organization theory and current research trends in the field.

PAD 6105 Organization Theory and Leadership (3)

In-depth coverage of organizational theory and focus with special attention to issues and problems of organizational change and reform in the public sector.

PAD 6134 Project Management (3)

Course is designed to introduce students to the concepts, theories, principles, and practices in project management, as well as to the use of project management software.

PAD 6146 Nonprofit Management and Leadership (3)

Role and importance of third-sector organizations in American society; unique problems of nonprofit administration, role of leadership in nonprofit organizations.

PAD 6207 Public Financial Administration (3)

Examination of the fiscal organization of federal, state, and local governments. Current problems in budgeting, revenue, and indebtedness are considered.

PAD 6208 Financial Oversight for Nonprofit Organizations (3)

Introduce the non-financial manger to financial information used to make decisions for nonprofit organizations. Students will learn how to use the principles of financial management to make operating and capital budgeting decisions and to analyze long-term financial options.

PAD 6222 Issues in Florida--Budgeting and Finance (3)

Selected issues in public financial management and budgeting related to state agencies or local governments in Florida.

PAD 6227 Public Budgeting (3)

Development, authorization, execution, and assessment of government budgets. Topics include current trends and issues in budget theory and practice, as well as reform efforts.

PAD 6231 Resource Dev.: Fundraising and Grantsmanship (3)

Administration and management of the fundraising process; principles, skills, methods, and techniques. Administration and management of the grantsmanship process.

PAD 6275   **Political Economy for Public Managers (3)**
Introduces students to the fundamental concepts, theories, principles and tools used in public sector managerial economics. Students will be using economic concepts and applying economic tools and techniques to address common issues faced by public managers.

PAD 6307   **Policy Design and Implementation (3)**
The formulation, adoption, implementation, and evaluation of public policy. Analysis of public problems and program development; the causes and determinants of public policy and successful implementation; criteria for the assessment of program's impact.

PAD 6335   **Strategic Planning and Social Innovation for Public and Nonprofit Organizations (3)**
Addresses strategic planning and social innovation. Emphasizes methods of strategic planning and the principles of social innovation as practiced by the public and nonprofits sectors. Contemporary research and literature is discussed.

PAD 6336   **Community Development Programs and Strategies (3)**
Discusses community development principles and practices in historical and contemporary perspectives, federal, state and local initiatives, physical, social, and economic approaches to community development.

PAD 6338   **Urban Land Use and Policy Administration (3)**
Focuses on the political, economic, and legal environment of urban land development. Examines public policies affecting the spatial distribution of urban land activities, overt and covert rationales of such policies; zoning; subdivision regulations; building codes, and other urban land use control measures.

PAD 6339   **Housing and Public Policy (3)**
Explores housing policy in the broader context of public policy. Examination of housing market theories and the relationships between housing and city and regional planning.

PAD 6355   **Urban Growth Management (3)**
Examines the political economy of controlling the growth and development of human settlements, regulatory and non-regulatory techniques of growth management, and the evolution of growth management practices in the U.S.

PAD 6417   **Human Resources Management (3)**
A study of the major functions in public personnel, including recruiting, selection, testing, training, and development, and employee and human relations in the public service.

PAD 6427   **Public Sector Labor Relations (3)**
Introduction to the historical, legal, political and procedural aspects of collective bargaining and labor relations in the public sector organizations. Addresses methods for resolving conflicts and grievances.

PAD 6703   **Quantitative Analysis in Public Administration (3)**

Techniques, models, to analyze managerial/policy problems. Descriptive, inferential, associational statistics; evaluate/make recommendations/alternative policy/decisions.

PAD 6710   Public Information Management (3)
Intro to policy issues related to managing public info. by non-technical public & nonprofit managers. Non-tech. manager's role with strategic tech. planning, process re-engineering, appl. dev., data admin., procurement, security, public access, Internet.

PAD 6717   GIS Applications for Urban Management (3)
Provides a basic introduction to the use of Geographic Information Systems (GIS) for urban decision makers. No prior knowledge of GIS is assumed.

PAD 6907   Independent Study (1-3)
A flexible format for conceptual or theoretical studies in public administration.

PAD 6909   Problem Report (3)
Analysis of a significant administrative or policy problem facing a public agency or manager.

PAD 6915   Directed Research (1-3)
A flexible format for structured field research in Public Administration.

PAD 6934   Selected Topics in Public Administration (1-3)
A flexible format to offer specialized courses not available within the regular curriculum.

PAD 6946   Internship in Public Administration (2-6)
Structured learning and work experience in a public agency or non-profit organization.

PCB 5256   Developmental Mechanisms (3)
Topics in modern developmental biology to be covered in lecture and through readings so as to gain a detailed understanding of cellular and molecular mechanisms of differentiation and pattern formation in various eukaryotic species for majors/non-majors

PCB 5307   Limnology (3)
An introduction to the physical, chemical, and biological nature of fresh-water environments. Lecture only.

PCB 5616   Molecular Phylogenetics (3)
Provides a theoretical (lecture) and practical (computer lab) framework to allow students to carry out phylogenetic analysis using molecular data. Majors or nonmajors.

PCB 6093   Advances in Scientific Review (2)
Introduce research graduate students to the review and generation of primary literature. It serves to prepare them for preparing their data for publication, and presenting it at national and international meetings.

PCB 6107   Advanced Cell Biology (4)

Detailed examination of the structure, function and molecular biology of eukaryotic cells.

PCB 6205   **Cancer Biology III - Cancer Genomics and Drug Discovery (3)**
An exploration of the normal and abnormal cancer biological processes as they pertain to regulation of the genome and of novel cancer gene discovery approaches, as well as methodological and conceptual approaches to oncologic drug design and development.

PCB 6230   **Cancer Biology I - Basics of Molecular Oncology (3)**
An introduction to the basics of molecular oncology. Topics will include cytoplasmic and nuclear oncogenes, cell cycle control, apoptosis, tumor suppressor genes and cancer drug discovery.

PCB 6231   **Cancer Biology II - Immunology And Applied Biology (4)**
An exploration of the normal and abnormal immune development and function as well as the basic and applied aspects of tumor immunology.

PCB 6236   **Advanced Immunology (4)**
Discussion of the basic immune reaction, nature of antigenicity; basic immunological techniques and their use in biological research and the medical sciences. Lec/Lab.

PCB 6275   **Cell Signaling (3)**
A detailed examination of the cellular, biochemical, and molecular mechanism involved in signal transduction in various eukaryotic organism with emphasis on reviewing recent experimental evidence.

PCB 6447   **Community Ecology (3)**
In-depth examination of community ecology with emphasis on diversity, stability, trophic structure and the mechanisms which affect how communities are structured.

PCB 6455   **Statistical Ecology (3)**
Introduction to exploratory data analysis in ecology. Techniques for dealing with encountered data are emphasized.

PCB 6458   **Biometry II (3)**
Fundamental concepts in the design of experiments for biological research. Factorial experiments, multiple regression analyses, analyses of covariance and SAS computer programs are emphasized. Lec/Lab.

PCB 6525   **Molecular Genetics (3)**
Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on proteins and cellular control.

PCB 6526   **Cancer Biology IV - Concepts and Techniques in Cancer Genetics (3)**
This course will explore major concepts in Cancer Genetics, how they are derived from experimental results and how they can be applied to outstanding problems in Cancer Biology.

PCB 6910   **Cancer Biology Lab Rotations (1-3)**

This course is designed to help the students choose a compatible Major Professor and allow students to develop necessary technical skills. It is graded on a satisfactory (pass) or unsatisfactory (fail) basis.

PCB 6920   Advances in Cell and Molecular Biology (1)
A journal club in which graduate students present and discuss research publications from the preceding twelve months in the fields of molecular and cellular biology.

PCB 6930   Current Topics in Cancer Biology (2)
Renowned speakers from outside the USF Community will give weekly seminars on topics in oncology. Participants will meet weekly with the speakers and discuss the current state of the art.

PCB 6931   Advances in Cancer Biology Research (2)
Advances in Cancer Research – Two participants will read and orally present current breaking research. They will gain experience in critically evaluating research reports and receive critique on presentation skills**.**

PCB 6932   Bioethics for Cancer Researchers (1)
Explore the key issues of responsible conduct of research facing the cancer biologist. The course will use interactive open discussion sessions focused on individual ethics topics in cancer research.

PCB 6933   Seminar in Ecology (1-3)
A detailed examination of topics in ecology pertaining to individual organisms, populations, communities and/or ecosystems.

PCB 6956   Scientific Grant Writing (3)
Teach research graduate students the art of scientific grant writing. It also serves to prepare them for their written qualifying exam. It is only for research PhD students within the department of CMMB.

PCB 3023L   Cell Biology Laboratory (1)
Laboratory portion of Cell Biology. Metabolic processes within the cell.

PCB 3043L   Principles of Ecology Laboratory (1)
Laboratory portion of PCB 3043, Principles of Ecology.

PCB 3063L   General Genetics Laboratory (1)
Laboratory investigation techniques in general genetics including Mendelian and non-Mendelian relationships, and gene interactions.

PCB 3346C   Field Research Experience Abroad - Costa Rica (3)
This course is a field research experience that takes place at biological research stations and preserves in Costa Rica.

PCB 3713L   General Physiology Laboratory (1)
Laboratory portion of General Physiology.

PCB 4522C   **Experimental Genetics and Cell Biology (3)**
This course will teach students how to utilize and integrate concepts from genetics and cell biology in a research laboratory environment using current scientific literature, model organisms and molecular techniques.

PCB 4723L   **Animal Physiology Laboratory (1)**
Laboratory portion of Animal Physiology.

PCB 5307L   **Limnology Laboratory (1)**
Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology.

PCB 6365C   **Physiological Ecology (4)**
Effect of environmental factors on animal function at the cellular and organ system level with emphasis on control and mechanism.

PCB 6426C   **Population Biology (3)**
Introduction to population dynamics with emphasis on the ecological components of growth, competition, and perdition.

PCB 6456C   **Biometry (4)**
An introduction to statistical procedures for research in biological sciences. Experimental design, analysis of data, and presentation of results are emphasized. Lec./Dis.

PET 5769   **Principles and Issues in Coaching (3)**
This course is designed to provide a broad examination of many basic issues involved in coaching. The primary point is of a philosophical nature and in these discussions, students have the opportunity to form their own values in regards to sports.

PET 6003   **Theories & Models of Health & Physical Activity (3)**
This course covers the origin and application of theory in the general health and physical activity domains. Emphasis will be placed on learning the theoretical constructs and applied uses of classic and contemporary theories in health behaviors.

PET 6085   **Body Composition: Assessment and Management (3)**
This course covers advanced principles of body composition assessment and management. The role of physical activity and medical intervention will be considered.

PET 6086   **Lifespan Fitness (3)**
The course is designed to assist students in developing an understanding of how fitness habits and recommendations change over a lifetime.

PET 6098   **Topics in Strength and Conditioning (3)**
Covers selected topics in strength and conditioning. Some of the topics to be covered include: program design, periodization, core stabilization training, biochemical monitoring, overtraining, and strength training.

PET 6216   **Sport Psychology (3)**

This course is designed to provide students with an understanding of the theoretical structure that underlies psychology applied to sport. There will be a particular emphasis on psychological concerns that confront coaches, educators, and athletes.

PET 6235   **Motor Learning (3)**
This course deals with motor learning research as it relates to exercise science. Emphasis will be placed upon normal developmental patterns and behaviors and motor learning principles throughout the life span.

PET 6256   **Sport in Society: Contemporary Issues (3)**
This course is a study of organized sport in contemporary society. Issues such as race, social class, gender, politics, religion, economics, media, physical disabilities, sexual orientation, and ethics as they relate to sports will be studied. This course is a study of organized sport in contemporary society. Issues such as race, social class, gender, politics, religion, economics, media, physical disabilities, sexual orientation, and ethics as they relate to sports will be studied.

PET 6317   **Applied Biomechanics (3)**
The course involves the integration of advanced kinesiological foundations to exercise science. Topics include: physical growth and neuro-muscular control, laws of physics in human movement, and effects of exercise on the muscular and skeletal systems.

PET 6367   **Sports Nutrition and Exercise Metabolism (3)**
This course covers selected topics regarding exercise metabolism and sports nutrition. Some of the topics to be covered include: bioenergetics; protein, fat and carbohydrate metabolism during exercise; sports supplements designed to improve strength.

PET 6388   **Physical Activity, Health, and Disease (3)**
This course focuses on the study of how physical activity is related to chronic diseases. Epidemiological techniques will be examined using physical activity as a factor in the cause of disease. The physiological basis will be examined.

PET 6389   **Fitness Assessment and Prescription (3)**
This course covers advanced principles of physiological fitness assessment. Topics to be covered include the assessment and prescription of: aerobic capacity, anaerobic capacity, muscular strength, and muscular endurance.

PET 6419   **Clinical Supervision in Physical Education (3)**
Provides specialized knowledge and skills for effective supervision of interns in physical education including observation and feedback techniques and communication skills.

PET 6425   **Curriculum and Instructional Process in Physical Education (3)**
Will provide in-depth study of the structure of subject matter, theoretical curriculum models, styles of teaching, and investigation of the nature of the learner as these relate to teaching physical education. Fieldwork may be required.

PET 6443   **Instructional Design and Content: Games (3)**

The purpose of this course is to help students plan and implement effective game content and instruction in K-12 physical education programs based on current research and best practice.

PET 6444   **Instructional Design and Content: Dance and Gymnastics (3)**
The purpose of this course is to help students plan and implement effective dance and gymnastics content in K-12 movement education/physical education programs based on current research and best practice.

PET 6447   **Specialized Study In Curriculum And Instructional Process In Physical Education (1-4)**
Will provide in-depth study in specific areas related to the teaching-learning process of physical education.

PET 6494   **Legal Aspects of Physical Activity (3)**
Addresses the law, legal liability, and risk management related to physical activity programs. Content will focus on tort and contract law with an emphasis on negligence.

PET 6516   **Learner Assessment in Physical Education (3)**
This course is designed to help teachers assess student learning in pre/K-12 physical activity settings and to conduct program evaluation in physical activity settings.

PET 6534   **Research Methods in Exercise Science (3)**
Introduces students to the concepts, methods, and applications of research within exercise science. Development of research skills will be the primary focus.

PET 6542   **Grant Writing (3)**
This course will provide the foundation to enable the students to create a grant project, find appropriate funding sources, write a competitive grant proposal, and manage a successful program grant to completion.

PET 6645   **Physical Education for Individuals with Disabilities (4)**
This course is concerned with the motor development and physical fitness of individuals with mental and motor related disabling conditions. Study includes psycho-educational characteristics; planning, conducting, and evaluating individualized programs of physical education; and review of relevant literature. Clinical fieldwork is required.

PET 6706   **Analysis of Research in Physical Education (3)**
This course is designed to help teachers better understand the process of conducting classroom research. The course provides a set of guidelines for reading research and sharing perspectives based on studying original research in physical education.

PET 6716   **Analysis of Teaching in Physical Education (3)**
The purpose of this course is to help students develop into physically literate individuals by providing a comprehensive, yet concise, guide to what is most important for quality teaching in physical education.

PET 6802   **Effective Teaching and Classroom Management in Physical Education (3)**

The purpose of this course is to help students develop into physically literate individuals by providing a comprehensive, yet concise, guide to what is most important for quality teaching in physical education.

PET 6906   **Independent Study: Professional Physical Education (1-6)**
Independent study. Students must have a contract with an instructor.

PET 6947   **Internship in Exercise Science (1-6)**
Provides a field experience in an Exercise Science setting. Experiences will focus on all aspects of program development and delivery. Students may also be involved with administrative functions of a fitness/wellness center.

PET 6971   **Thesis: Physical Education (1-5)**
This course will provide the student with experience in research related to the disciplines of physical education and exercise science. Restricted to Graduate Program Majors only and repeatable for up to 6 credit hours.

PET 6396C   **Specialized Study in Bio-Kinetics of Human Movement (1-4)**
Will provide in-depth study in specific areas related to neurological, physiological, and mechanical principles of human development.

PET 6525L   **Laboratory Techniques in Exercise Science (3)**
The course covers laboratory applications as they relate to exercise science. Emphasis will be placed upon laboratory experiences in biomechanics and exercise physiology involving equipment setup, data collection, data acquisition, and data analysis.

PET 6910L   **Research Project in Physical Education (1-4)**
In-depth research study of selected topics concerning human movement. Topics will vary according to needs and interests of student.

PGY 5619   **Photojournalism I (3)**
Today, all journalists must know how to tell stories with words, photos and audio. Through ten still photo assignments, caption writing and a multimedia project with interview audio and natural sound, the craft of photojournalism will be emphasized.

PGY 5625   **Photojournalism II (3)**
All journalists must know how to tell stories with words, photos and audio. Photojournalism assignments will emphasize advanced composition, lighting and caption writing. A multimedia project with interview audio and natural sound will be emphasized.

PGY 2410C   **Beginning Photography (3)**
Introduction to the expressive possibilities of photographic media. Projects and assignments will introduce students to both traditional and experimental ways of working with light-sensitive materials with an emphasis on the interdependence of form, technique, and concept. The course will also provide an overview of significant trends and directions in contemporary art photography.

PGY 3410C   **Intermediate Photography (3)**

A mid-level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction.

PGY 3610C   **Photojournalism I (3)**
Fundamentals of news and feature photography. Camera operation, picture composition, darkroom techniques, editing in digital format with introduction to software applications. History, ethics and law of photojournalism.

PGY 3820C   **Digital Media I (3)**
This course builds upon the concepts introduced in Introduction to Multimedia Systems and focuses upon digital photographic creation and editing.

PGY 3930C   **Special Topics: Photography (3)**
A mid-level course expanding the student's visual and technical skills while establishing the beginning of a personal artistic direction by exposing the student to new ideas, technical skills and genres, including, but not limited to: color photography, digital photography, non-silver and documentary photography. Repeatable up to 9 hours.

PGY 4420C   **Advanced Photography (3)**
Continued problems in photography.

PGY 4822C   **Digital Media II (3)**
This course builds upon the concepts introduced in Digital Media I and focuses upon digital photographic, web and digital video creation.

PHA 6971   **Master's Thesis (1)**
This course is for the completion of research hours and a written thesis related to a specific original research project based on experimental data. Includes submission of a final Committee-Approved Thesis, including oral defense.

PHH 6105   **Seminar in Ancient Philosophy (4)**
Examine major texts in Ancient Philosophy, such as Plato's Theaetetus and Timaeus, and Aristotle's Metaphysics, Physics, and De Anima.

PHH 6205   **Seminar in Medieval Philosophy (4)**
Examines major texts, topics, and thinkers in medieval philosophy.

PHH 6310   **Seminar in Seventeenth Century Philosophy (4)**
This course will examine major texts in Seventeenth Century Philosophy.

PHH 6426   **Seminar in Eighteenth Century Philosophy (4)**
Examines major texts in Eighteenth Century Philosophy.

PHH 6645   **Contemporary Continental Philosophy (4)**
This course examines four new directions in contemporary continental philosophy, genealogy, feminist critiques of the history of philosophy, Marxist-Hegelian analyses of popular culture, and mathematical-scientific approaches to continental philosophy.

PHH 6677   **Seminar in German Idealism (4)**

Overview of the central theoretical currents in the development of German Idealism from Immanuel Kant through G.W.F. Hegel, with emphasis on the intermediary developments in the works of K.L. Reinhold and J.G. Fichte.

PHH 6938   **Seminar in the History of Philosophy (3)**
A seminar in the history of philosophy. The instructor will determine the subject matter. Variable titles: Ancient, Modern, Recent, Contemporary.

PHI 5135   **Symbolic Logic (3)**
Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logic.

PHI 5225   **Philosophy of Language (3)**
An examination of semantically, syntactical, and functional theories of language with special attention given to the problems of meaning, linguistic reference, syntactical form, and the relations between scientific languages and ordinary linguistic usage. Seminar format.

PHI 5913   **Research (1-4)**
Individual research supervised by a faculty member.

PHI 5934   **Selected Topics (1-3)**
Selected topics according to the needs of the student.

PHI 6305   **Seminar in Epistemology (3)**
An analysis of recent and contemporary problems of knowledge. Seminar format.

PHI 6405   **Seminar in the Philosophy of Natural Science (3)**
A study of the nature and status of physical theories, some basic problems associated with scientific methodology, and the philosophical implications of modern science. Seminar format.

PHI 6425   **Seminar in the Philosophy of Social Science (3)**
Philosophical issues arising in the social sciences; value assumptions, laws and the theories, models, etc. Seminar format**.**

PHI 6506   **Seminar in Metaphysics (3)**
In this course students will examine selected topics in classical and contemporary metaphysics, for example, the concept and categories of Being or existence, the existence of God, the problem of universals or general terms, the a priori, the mind-- body problem, and the identity thesis.

PHI 6605   **Seminar in Ethics (3)**
Advanced study of the problems of moral philosophy.

PHI 6634   **Seminar in Biomedical Ethics (3)**
A focused examination of a particular topic in biomedical ethics such as clinical bioethics, healthcare organizational ethics, philosophy of medicine, medical ethics and law, or medical ethics and conflict resolution.

PHI 6645   **Developmental Ethics (3)**
This course presents and critically examines the major ethical theories related to both national and international development institutions, policies, and practices.

PHI 6665   **Metaethics (3)**
A study of alternative theories of metaethics including emotivism, moral point of view, supererogate virtue theory.

PHI 6686   **Climate Change and Societal Evolution (3)**
Mitigating climate change, reducing the biospherical overshoot, and transitioning to sustainability require a societal evolution towards a postcarbon and circular economy. The course charts cultural and societal aspects of viable evolutionary pathways.

PHI 6808   **Seminar in Aesthetics (3)**
An analysis of fundamental special problems of aesthetics; value, perception, communication, technique, context. Seminar format.

PHI 6908   **Directed Research (1-19)**

PHI 6934   **Selected Topics (1-3)**
Selected topics according to the needs of the student. Approval slip from instructor required.

PHI 6945   **Graduate Instruction Methods (1-3)**
Special course to be used primarily for the training of teaching assistants.

PHI 6971   **Thesis: Master's (2-19)**

PHM 5126   **Social Issues in Biomedical Ethics (3)**
An examination of the social and political issues arising from rapid changes in medicine and technology. Topics covered may include social issues related to the just distribution of health care, reproductive technologies, HIV and AIDS, eugenics, genetic testing, and maternal-fetal relations.

PHM 6105   **Seminar in Social Philosophy (3)**
A detailed study of the philosophical theories of society, class societies (Capitalism), advanced technocracy (all types). Seminar format.

PHM 6265   **Continental Phil I: Phenomenology of Hermeneutics (3)**
A general survey of the 20th century continental schools of phenomenology, ontology, and hermeneutics, with an emphasis on Husserl and Heidegger.

PHM 6266   **Continental Philosophy II: Poli/Social Theory (3)**
A general survey of 20th century continental social and political theory, dealing both with the younger and older generations of the Critical Theory tradition, together with their contemporaries and critics.

PHM 6267   **Continental Philosophy III: Struc/Deconstruc (3)**

An examination of leading philosophical texts in 20th century continental philosophical movements known as structuralism, post-structuralism, postmodernism and deconstruction, with special emphasis on the works of Michel Foucault and Jacques Derrida.

PHM 6305   **Seminar in Political Philosophy (3)**
An examination of the main political philosophies. Seminar format.

PHM 6506   **Seminar in the Philosophy of History (3)**
The analysis of language and logic of historical explanation, historical idealism, historical materialism, positivism, and historical sociology. Seminar format.

PHP 6005   **Plato (3)**
A systematic study of Plato's dialogues.

PHP 6015   **Aristotle (3)**
A systematic study of Aristotle's philosophy.

PHP 6405   **Seminar in Descartes' Philosophy (4)**
Examination of Descartes' major philosophical texts.

PHP 6415   **Kant (3)**
A survey of Kant's critical philosophy, emphasizing transcendental epistemology and Kant's critique of metaphysics. This course is open to graduate students (majors and non-majors). Prior knowledge of the history of philosophy is required, in particular of early-modern philosophy.

PHP 6420   **Seminar in Leibniz's Philosophy (4)**
Examination of Leibniz's major philosophical texts.

PHP 6505   **Seminar on Hegel's Philosophy (4)**
Careful interpretation and critical analysis of Hegel's seminal and perhaps most enduring work, the Phenomenology of Spirit.

PHP 6525   **Nietzsche and the Nietzscheans (4)**
Examines Nietzsche's major texts as well as the radical differences in Nietzsche reception from 1889 to the present. For graduate students only.

PHP 6624   **Adorno (4)**
Examines Adorno's major texts, methodology, collaborations with other members of the Frankfurt School, and impact on twentieth-century continental philosophy and sociology. For graduate students only.

PHP 6645   **Foucault (4)**
Examines Foucault's major texts, methodology, similarities and differences with structuralism and deconstruction, and impact on contemporary continental philosophy and history. For graduate students only**.**

PHY 5937   **Selected Topics in Physics (1-4)**

Each topic is a course in directed study under the supervision of a faculty member.

PHY 6346   **Electromagnetic Theory I (3)**
Electrostatics, magnetostatics, potential and boundary value problems. Maxwell's equations. First semester of sequence PHY 6346, PHY 6347.

PHY 6347   **Applied Electromagnetic Theory (3)**
Second semester of sequence PHY 6346, PHY 6347. Electromagnetic waves, wave guides and resonant cavities, diffraction, relativistic-particle kinematics and dynamics, plasmas and magnetohydrodynamics.

PHY 6436   **Applied Materials Physics (3)**
Introduces students to properties and applications of advanced functional materials, such as nanostructured materials and biomaterials.

PHY 6446   **Lasers and Applications (3)**
Optical modes, optical resonator theory, gain saturation, theory of laser oscillators, specific laser systems, Q-switching and mode-locking, optical waveguides.

PHY 6447   **Physics of Lightwave Devices and Applications (3)**
Nonlinear optics including optical phaseconjugation, second harmonic and sum frequency generation, and stimulated Raman scattering. Selected applications of lasers and nonlinear optics.

PHY 6536   **Statistical Mechanics (3)**
Kinetic theory, configuration and phase space. Boltzmann theorem, Liouville theorem, ensemble theory, quantum statistics.

PHY 6645   **Quantum Mechanics I (3)**
Hilbert space, continuous spectrum, matrix and wave mechanics, quantum dynamics, symmetries, angular momentum, perturbation methods

PHY 6646   **Applied Quantum Mechanics (3)**
Approximation and perturbation methods, hydrogen fine structure, scattering, identical particles, second quantization, Dirac equation.

PHY 6753   **Measurement and Instrumentation (3)**
Measurement, signals and noise; analog/digital conversion; data communication; digital signal processing. LabVIEW programming, instrument control, data acquisition through RS232 and GPIB interface. Familiarity with electronic circuits recommended.

PHY 6909   **Independent Study (1-19)**
Independent study in which student must have a contract with an instructor.

PHY 6911   **Directed Research (1-19)**
An individual investigation of a research topic under the supervision of an instructor.

PHY 6935   **Graduate Seminar (1)**

PHY 6938   **Selected Topics in Physics (1-10)**
Each topic is a course in directed study under the supervision of a faculty member.

PHY 6940   **Supervised Teaching (3)**
Laboratory teaching under the direction of a Physics Department faculty member.

PHY 6971   **Thesis: Master's (2-12)**

PHY 2048L   **General Physics I Laboratory (1)**
First semester of a two-semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, geometrical and physical optics, electricity, and magnetism) and laboratory for physics majors and engineering students.

PHY 2049L   **General Physics II Laboratory (1)**
Second semester of general physics and laboratory for physics majors and engineering students.

PHY 2053L   **General Physics I Laboratory (1)**
First semester of a two semester sequence of general physics (mechanics, heat, wave motion, sound, electricity, magnetism, optics, modern physics) laboratory for science students.

PHY 2054L   **General Physics II Laboratory (1)**
Second semester of general physics lab for science students.

PHY 3822L   **Intermediate Laboratory (3)**
Experiments in modern physics, including the areas of atomic, nuclear, solid state and wave phenomena.

PHY 4744C   **Introduction to Electronics and Test Instrumentation (3)**
Introduces the fundamentals of analog and digital electronics used in measurements and instrumentation. Weekly labs give hands-on experience in breadboarding electronic circuits and using test instrumentation (oscilloscopes, digital multimeters, etc.)

PHY 4823L   **Advanced Laboratory (3)**
Experimental work primarily related to modern physics. Emphasis on experimental techniques used in current research.

PHY 5720C   **Electronics for Research (3)**
A rigorous introduction to the fundamentals of analog and digital electronics. Theoretical circuit analysis and weekly labs introduce practical use of diodes, transistors, analog and digital Ics, breadboarding techniques and electronics test instrumentation. Spring Semester.

PHZ 4151C   **Computational Physics (3)**
Introduction to computer applications in physics. Emphasis on numerical modeling and simulation of physics problems using linear algebra, differential equations and Monte Carlo methods. No prior programming experience required.

PHZ 5115   **Methods of Theoretical Physics I (3)**
Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.

PHZ 5116   **Methods of Theoretical Physics II (3)**
Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.

PHZ 5154C   **Introduction to Computational Physics (3)**
Introduction to the use of computers for solving problems in physics. No programming experience required.

PHZ 5156C   **Computational Physics I (3)**
C or Fortran programming applied to science and engineering problems. Data analysis, numerical algorithms, modeling, parallel computation. Subjects: neurobiology, quantum magnetism, chaos, etc. Familiarity with programming in a compiled language assumed.

PHZ 5405   **Solid State Physics I (3)**
Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.

PHZ 5430   **Introductory Physics of Materials (3)**
Phenomenological introduction to the structural, thermal, electrical, magnetic, mechanical, and optical properties of materials.

PHZ 6204   **Atomic/Molecular Spectra (3)**
Hydrogen atom, one electron systems, centralfield and vector models, perturbations, Zeeman and Stark effect, hyperfinestructure, atomic structure calculations; diatomic spectra, rotational andvibration analysis, intensities, temperatures from spectra, isotope effects.

PHZ 6426   **Solid State Physics II (3)**
Optical, electrical and magnetic properties of insulators, superconductivity, imperfections in solids. Second semester of sequence PHZ 5405, PHZ 6426.

PHZ 6715   **Biophysics I (3)**
This is part one of a two-semester introductory course in biophysics designed to apply concepts from thermodynamics, statistical mechanics and electromagnetism to describe the physical behavior of macromolecules and biological membranes.

PHZ 6716   **Biophysics II (3)**
This is part two of the two-semester introductory course in cellular and molecular biophysics. The course is designed to extend the concepts introduced in the prior semester to explore the connection between molecular structure and cellular functions.

POS 5159   **Urban Policy Analysis (3)**

Application of policy framework for urban government & policies. Examine forms of government and how policies such as economic development, law enforcement, community policing, neighborhood policies (with non-profit groups) can be analyzed.

POS 6045   **Seminar in American Government & Politics (3)**
Advanced study of selected topics of institutions and processes of American national government and politics.

POS 6095   **Seminar in Intergovernmental Relations (3)**
Advanced study of selected topics of institutions, processes, and behavior of American state governments and Florida government.

POS 6127   **Issues in State Government and Politics (3)**
Advanced study of selected topics in institutions, processes, and behavior of American state governments and Florida government.

POS 6455   **Political Parties and Interest Groups (3)**
Analysis of statutes, functions, and characteristics of political parties and interest groups, as well as their interactions with political processes, actors, and institutions.

POS 6702   **Teaching Political Science (3)**
Prepares graduate students enrolled in the PhD in Government, as well as MA students enrolled in the MA in Government and International Affairs to teach for the department.

POS 6707   **Qualitative Analysis (3)**
Introduces graduate students to different methods of conducting qualitative empirical research in political science. Students will learn how to establish validity and reliability of findings in conducting case studies and field research.

POS 6735   **Foundations of Political Inquiry (3)**
Survey of philosophical, intellectual, and theoretical issues, including historical development of political science. Topics include empirical approaches, rational choice theory, and critical approaches such as pragmatics, hermeneutics, genealogy, and critical theory.

POS 6736   **Research Design (3)**
Introduces a variety of research methods, which provide students with tools to conduct their own research. It covers topics such as stating a research question; literature review, causation, hypotheses, and variables, among others.

POS 6746   **Quantitative Analysis I (3)**
Provide graduate students in political science, international relations, and public policy the necessary tools for analyzing and conducting quantitative research in the discipline.

POS 6909   **Independent Study (1-3)**
Specialized independent study determined by the student's needs and interests. Needs instructor's consent.

POS 6918   **Seminar in Quantitative Methods (3)**

Advanced topics in quantitative political analysis, including OLS variants, regression problems, time series, limited dependent variables, and SPSS.

POS 6919   **Directed Research (1-19)**

POS 6933   **Selected Topics in Political Science (3)**
Selected topics, issues, and problems in political science.

POS 6942   **Field Work in Political Science (1-3)**
Application of research models now employed in governmental agencies, including development of a structured research proposal.

POS 6971   **Thesis: Master's (2-19)**

POT 6007   **Seminar in Political Theory (3)**
Provides students who are capable of independent work with the opportunity to explore advanced problems of political theory.

PPE 6058   **Personality (3)**
Survey of research and theories of personality, including its relationship to the development of normal and abnormal behavior.

PSB 4004C   **Physiological Psychology (3)**
Gross neural and physiological components of behavior. Structure and function of the central nervous system and theory of brain functions.

PSB 6056   **Physiological Psychology (3)**
Survey of data and research methods in Behavioral Neuroscience. Basic learning theories and CNS function in behavior, and disorders associated with CNS dysfunction will be covered.

PSY 6065   **Introduction to Advanced Psychology (1-4)**
This course introduces students to the major ideas in the discipline of psychology, history of psychology, and cultural and diversity issues and promotes practice in scholarly discourse and professional development.

PSY 6217   **Research Methods and Measurement (2-4)**
Courses in research strategies, design and analysis, and measurement theory in psychological experimentation. Inferential statistics, anova, correlation methods, and interpretation.

PSY 6218   **Graduate Research Methods (3)**
Second course in sequence designed to provide students with a working knowledge of research methods and statistics in psychological science. Focus on interpretation of data through written reports of statistical analysis.

PSY 6219   **Advanced Statistical Methodology (3)**
Advanced multivariate statistical methods in social science emphasizing multiple regression, factor analysis, and structural equations modeling.

PSY 6605C   **History and Systems of Psychology (2)**
A review of the history of modern psychology with emphasis on the major systematic approaches that have influenced the current structure of psychology. Persisting polarities and common underlying issues are studied in various historical contexts.

PSY 6850   **Teaching of Psychology (3)**
Application of psychological principles to the educational process. Learner-centered model of instruction. Focus on development, behavioral, cognitive, social learning, effective instruction, educ assessment, student motivation and classroom management.

PSY 6907   **Independent Study (1-19)**
Independent study in which student must have a contract with an instructor.

PSY 6917   **Directed Research (1-19)**

PSY 6946   **Practicum and Internship in Clinical Psychology (1-15)**
Supervised training in community and university settings in the application of Psychology.

PSY 6947   **Graduate Instruction Methods (1-3)**
Special course to be used primarily for the training of teaching assistants.

PSY 6971   **Thesis: Master's (2-19)**

PUP 5607   **Public Policy and Health Care (3)**
The study of health care policy as it relates to the policy process in the American setting.

PUP 6007   **Seminar in Public Policy (3)**
Examination of public policy from a theoretical and practical decision. Analysis will be presented in terms of their usefulness in designing policy.

PUR 5505   **Introduction to Strategic Communication Theory and Practice (3)**
The course is designed to act as a "bridge" between undergraduate and graduate public relations and advertising education, and between professional communication practices and strategic communication scholarship.

PUR 6603   **Strategic Communication Campaigns (3)**
A problem-solving approach emphasizing the environmental context of strategic communication problems, applied to strategic communication management in organizational settings. Nonmajors with prerequisites allowed. Not repeatable for credit.

PUR 6607   **Strategic Communication Management (3)**
The focus is on the theoretical basis of public relations and advertising as a management function. These theories are applied to strategic communication management. Nonmajors allowed with necessary prerequisites. Not repeatable for credit.

QMB 5010   **MBA Essentials: Business Statistics (0)**

An overview of the statistical tools that allow typical business data to be analyzed. ANOVA, multiple linear regression, and tests of hypothesis are emphasized.

QMB 6303   Applied Business Analytics (3)
This course covers a variety of tools and techniques for the analysis of large and complex business data and how to apply them to various business problems ranging from manufacturing, marketing, finance, accounting, economics and management.

QMB 6304   Analytical Methods for Business (3)
The course will cover analytical methods based on statistical techniques for business operations. The course will use a statistical software like R or equivalent to teach students how to use statistics for business decisions.

QMB 6305   Managerial Decision Analysis (2)
A study of the general concepts of interval estimation, hypothesis testing, correlation and multiple regression with an emphasis on applications, concepts and interpretation of results.

QMB 6357   Statistics for Business Professionals (3)
This course covers the basic principles of Statistics as used by business professionals. Topics include descriptive statistics, hypothesis testing, analysis of variance, regression, time series models, non-parametric methods, statistical quality control.

QMB 6358   Data Analytics for Business (2)
This course will provide an introduction to data analytics for managers. It is targeted for MBA students and provides an overview of data collection, visualization and business dashboards, as well as classification models on customer data.

QMB 6375   Applied Linear Statistical Models (3)
A study of multivariate data analysis techniques and their applications to problems and systems in business.

QMB 6603   Operations Management and Quality Enhancement (2)
Principles of managing manufacturing and service organizations. Topics include: competitive use of operations, comprehensive manufacturing strategies, production system design, material requirements planning, JIT systems, quality management, statistical process control, and project management.

QMB 6615   Lean Operations (3)
Course focuses on the concepts/principles of Lean Operations. Methods/tools/techniques utilized in Value Stream Transformation and for improving operational efficiencies as they relate to manufacturing, service, and healthcare organizations are emphasized.

QMB 6696   Six Sigma (3)
Course focuses on the concepts/principles of Six Sigma. Methods/tools/techniques utilized to design and optimize product/process/service quality for Six Sigma levels of performance in manufacturing, service, and healthcare organizations are emphasized.

RCS 5035   **Rehabilitation Counseling: Concepts and Applications (3)**
Introduction to the profession of Rehabilitation Counseling and current issues in the field. Coverage includes rehabilitation history, legislation, case management and related services for Americans with disabilities.

RCS 5080   **Medical Aspects of Disability (3)**
A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.

RCS 5450   **Fundamentals of Substance Abuse Counseling (3)**
An overview of alcohol and other drug abuse. Explores the extent and rate of abuse in the United States, causes, biology, psychosocial aspects, legal aspects, and treatment.

RCS 5780   **Legal, Ethical, Professional Standards and Issues in Counseling (3)**
An overview of all aspects of professional functioning including history, roles, organizational structures, ethics, standards and credentialing. Contemporary and developing issues in the field of professional counseling will also be addressed.

RCS 5905   **Directed Studies (1-4)**
Supervised rehabilitation studies under the direction of a faculty member.

RCS 6220   **Individual Evaluation and Assessment (3)**
Examines assessment procedures utilized in rehabilitation and mental health counseling settings and critical issues in the evaluation of people who are mentally and physically disabled.

RCS 6301   **Career and Lifestyle Assessment (3)**
Career development, lifestyle, and related factors with special emphasis on the needs of individuals with disabilities. Includes job placement and a survey of work requirements in different occupations and how these relate to functional limitations.

RCS 6407   **Counseling Theories and Practice (3)**
An extension and intensification of the rehabilitation and mental health counseling skills developed in RCS 5404. Includes the study of counseling theories and their contribution to successful counseling and rehabilitation practice.

RCS 6408   **Diagnosis and Treatment of Psychopathology (3)**
Psychopathology as applied to psychotherapy and case management in mental health, addictions, and other rehabilitation settings.

RCS 6440   **Social and Cultural Foundations of Counseling (3)**
Counseling issues in a multicultural and diverse society. Special emphasis on psychosocial adjustment and counseling for individuals with physical and mental disabilities.

RCS 6456   **Counseling Approaches for Substance Abusers (3)**

The focus of this course is on deepening the student's understanding of the practice of addictions counseling with an emphasis on biopsychosocial multidisciplinary intervention. Restricted to majors.

RCS 6459   **Professional Skills for Addictions Counselors (3)**
The course will be a more in depth and hands on approach to the transdisciplinary foundations that are essential for the work of substance abuse professionals. Application to practice and professional readiness will be the focus.

RCS 6476   **Human Sexuality Counseling (3)**
Course is designed to introduce students & mental health professionals to the diverse nature and construct of human sexuality. The curriculum meets the Florida Statute 491 licensure requirement as a contact area in "human sexuality theories". Majors only.

RCS 6510   **Group Theories and Practice (3)**
Theoretical and empirical issues in group counseling are examined in the context of an ongoing group. Emphasis is on application to rehabilitation and mental health counseling.

RCS 6740   **Research and Program Evaluation (3)**
Training in the evaluation and utilization of available research studies and the development of research skills. An individual research project is required.

RCS 6803   **Practicum in Counseling (3)**
Field work experience in rehabilitation mental health counseling.

RCS 6825   **Internship (3-6)**
Student placement in an approved intern setting for a minimum of 600 hours of supervised experience.

RCS 6906   **Independent Study (1-19)**
Independent study where the student must have a contract with a faculty member.

RCS 6930   **Seminar in Rehabilitation Counseling (1-4)**
Selected issues and problems in rehabilitation counseling with subject and scope to be determined by instructor.

RCS 6971   **Master's Thesis (2-6)**
The Master's Thesis for the MA in Rehabilitation and Mental Health Counseling is a research project designed to result in an original research product.

RED 6068   **Adolescent Literacy: In and Out of School Literacy Practices (3)**
Explore the literate practices (both in and out of school) of adolescent learners, including the ways that race, gender, and culture inform and impact students' agency and identity.

RED 6116   **Current Trends in Elementary Reading Instruction (3)**
Approaches, materials, and procedures in Elementary Reading instruction, with emphasis on pertinent research.

RED 6247   **Supervision and Coaching in Literacy (3)**
Planning and administering literacy programs and preparation as coaches in reading within STEM area content courses. Intensive work on individual research and projects with a focus of integrating literacy strategies in STEM area content courses.

RED 6316   **Emergent Literacy: Skills, Strategies, & Assessment (3)**
Understand the developmentally appropriate, research-based theories and practices that support children's emergent literacy and language learning.

RED 6317   **Intermediate Literacy: Assessment, Skills, and Strategies (3)**
Understand the developmentally appropriate, research-based theories and practices that support children's literacy learning in the intermediate grade levels.

RED 6365   **Reading In Secondary And Higher Education (3)**
Designed for student and inservice teachers with appropriate B.A. degrees. Content covers secondary, community college, and university levels. Organization permits student to work on applications to individual levels and disciplines. Research paper required.

RED 6449   **Literacy and Technology (3)**
Students will develop the skills and cultural competencies necessary to engage in participatory culture and develop strategies for integrating digital tools and media literacies into school and school-like settings.

RED 6514   **The Reading Process in the Elementary Grades (3)**
Prepares students in the foundations of literacy including learning principles, teaching and assessment strategies for providing literacy instruction to emergent, novice, transitional, and accomplished readers and writers in the elementary grades.

RED 6540   **Assessment in Developing Literacies (3)**
This course is a classroom based course in pk-6 literacy assessment. Students use reading assessments to improve reading of all pk-6 students. Students will develop their capacity for integrating literacy assessment and intervention with in STEM content areas for young readers.

RED 6544   **Cognition, Comprehension, and Content Area Reading: Remediation of Reading (3)**
In-depth study of reading comprehension. Emphasis is placed on discussion of the concepts of cognition and learning, metacognition and comprehension of text included in the reading process. Process in the reading/writing, connection, specific reading strategies, and procedures for comprehension of text in the content areas are presented.

RED 6545   **Issues in Vocabulary and Word Study (3)**
The purpose of this course is to provide students with an understanding of current theory and research about reading and writing vocabulary instruction and the interactive causes of literacy disabilities.

RED 6656   **Literature for a Diverse Society (3)**

Focuses on the examination of historical and contemporary multicultural children's, adolescent and young adult literature in order gain a pluralistic perspective of society. On-line course requires intensive writing and how to write in an Academic Voice.

RED 6658   **Foundations and Application of Differentiated Reading Instruction (3)**
Topics explored include: the fundamental aspects of literacy learning and rationale, the analytic process, reading motivation, linguistic perspectives on literacy instruction for ELLs, assessments, lesson plans, vocab instruction and comprehension.

RED 6748   **Teacher Research Methods In Reading (3)**
Teacher Research Methods in Reading familiarizes students with the application of classroom action research methodologies in literacy. Course content is directed toward developing understandings of the need for teacher research and a mindset for becoming a teacher researcher. Students will develop a knowledge base in quantitative, qualitative, case study and portfolio-based research methodologies for teachers.

RED 6749   **History and Foundations in Reading and STEM Disciplines (3)**
Introduces historical approaches to literacy, traces the history of science/STEM movement in Education, presents connections between current research and practice and former models in literacy, and their deployment with STEM areas of curriculum.

RED 6846   **Practicum in Reading (3)**
Practicum in Reading is a graduate course covering topics relevant to assessment and remediation of literacy in school-aged children. Students work with struggling readers. Intervention is also directed at implementing reading strategies within STEM areas.

RED 6906   **Independent Study: Reading Education (1-6)**
Independent study in which students must have a contract with an instructor.

RED 6971   **Thesis: Masters/Educational Specialist (2-19)**

REE 6045   **Real Estate Decisions (3)**
Provides an introduction to real estate with a focus on property rights (legal considerations), financial/investment analysis, and market (or location) analysis. The primary objective is to show how to make effective real estate decisions.

REE 6207   **Real Estate Finance (2)**
Provides an advanced treatment of the mortgage markets, including coverage of the primary and secondary mortgage markets, the securitization of mortgages, the valuation of mortgage securities, and commercial mortgage analysis.

REE 6305   **Real Estate Investment (2)**
Introduction to the procedures and analytical methods used to evaluate real estate markets and real estate investments. It focuses on the topic of real estate investment primarily from the private investor's (equity) perspective.

REE 6767   **Real Estate Development (3)**

This capstone course deals with the application of analytical techniques used to determine the feasibility of real estate projects. Various systems (models) that are applied for evaluating real estate investment and development proposals are covered.

REE 6938 **Selected Topics in Real Estate (2-4)**
Topics to be selected by instructor and department chairperson on pertinent real estate issues.

REL 6906 **Independent Study (1-3)**
Independent study in which the student must have a contract with the instructor.

RLG 6035 **Theory and Methods in Religious Studies (3)**
An introduction to and research methods used in Religious Studies proper and those of other disciplines. In the former are to be found comparative religion, religious hermeneutics, and theological analysis. Among the latter are included comparative literature, literary criticism, sociology, philosophy, and historiography.

RLG 6126 **Religion in America (3)**
Studies in the history of Native American religions, of the rise of American denominations, churches, and sects, of the relationship between church and state, and religious thought in America. Open to non-majors.

RLG 6143 **Religion, Culture, and Society (3)**
Scholarly study of religion in its complex relationship of culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions.

RLG 6189 **Comparative Religious Ethics (3)**
This seminar explores key issues and the diverse methodological approaches to the comparative study of religious ethics, including history of religions, social scientific, philosophical and theological approaches.

RLG 6196 **Religion and Modernization (3)**
This course will explore the unique characteristics of modern and post-modern civilization, with special attention given to the secularizing effects of modern science, technology, economics, and politics on the world's religions and their various responses to these factors.

RLG 6285 **Studies in Biblical Archaeology (3)**
A study of various problems in Biblical Archaeology including excavation techniques, principles of interpretation, problems in correlation of the text of the Bible and specific finds, chronology, reconstruction of culture from archaeological evidence, and others.

RLG 6327 **Seminar: Ancient Religions and Literatures (3)**
A research seminar in some aspect of ancient religion and literature: Hebrew Bible, New Testament, Mithraism, Mystic Religions, Pseudepigrapha, and others taught in translation.

RLG 6438 **Modern Christian Thought (3)**

Examines themes, thinkers, and movements in Christian thought since the 16th century.

RLG 6906   **Independent Study (1-3)**
Independent study in which the student must have a contract with the instructor.

RLG 6911   **Directed Research (1-3)**
Individual guidance in concentrated reading in a carefully delimited area of religious studies research skills.

RLG 6938   **Special Topics in Religious Studies (2-4)**
Open to non-majors. Variable titles offered on topics of special interest.

RLG 6940   **Graduate Instruction Methods (1-4)**
Offered primarily for the supervision of Graduate Teaching Assistants.

RLG 6971   **Thesis: Master's (2-19)**

RTV 5416   **Race, Gender, Class issues in Media (3)**
Survey of how those outside the American mainstream, whether by race, ethnicity, gender or socio-economic class are portrayed in various forms of media. Emphasis on news media, with a secondary focus on entertainment media.

SCE 5325   **Methods of Middle Grades Science Education (3)**
Prepare 5-9 sci teachers to tch sci skills, content; interrelationship, applications of sci as a human endeavor; nature of sci; instructional methods; nature scientific inquiry; development of sci process skills; integration of subj areas; & assessment.

SCE 5337   **Methods of Secondary Science Education (3)**
Course concentrates on goals, subject matter teaching strategies for high school curricula; assessment and using data to improve student achievement; and development pedagogical content knowledge as it pertains to the teaching and learning of science.

SCE 5564   **Reading and Communication in Science Education (3)**
This course prepares secondary science teachers to teach literacy practices in science. It includes methods for selecting appropriate reading and language approaches. Communication in science and functional aspects of scientific literacy are examined.

SCE 5937   **Selected Topics in Science Education (1-4)**

SCE 6115   **Trends in Science Instruction (3)**
Topics in the biological and physical sciences appropriate for teaching in elementary school programs. Analysis of modern curriculum materials used in presenting science as a process of inquiry.

SCE 6315   **Teaching Elementary (K-5) School Science (3)**
This course addresses the concepts, materials, methods around elem school science and immerses you in learning experiences that provide a robust understanding of science teaching and learning from the perspective of both learner and teacher.

SCE 6346 **Foundations of Environmental Education Theory (3)**
This course explores the history and goals of environmental education, with an emphasis on the professional roles and instructional methods of environmental educators.

SCE 6347 **Methods for Interpretive & Transformative Standards Based Education (3)**
Current theories from research in brain physiology, cognitive psychology and science education explaining how humans of all ages learn to make meaning from experiences are translated into practice to bridge the gap between information and understanding.

SCE 6416 **Teaching Secondary School Biology (3)**
Effective use and production of instructional materials in the biological sciences. Interrelation of philosophy, materials, and classroom practices.

SCE 6444 **Community Resources for Environmental Education (3)**
Identify, access, and acquire community resources (media; business/industry); prof. natural science, engineering and social science societies; government and non-government agencies; civic groups, universities) to incorporate into learning opportunities for diverse audiences at all school levels.

SCE 6456 **Teaching Secondary School Physical and Earth Science (3)**
Effective use and production of instructional materials in the physical and earth sciences. Interrelation of philosophy, materials, and classroom practices.

SCE 6634 **Current Trends in Secondary Science Education (3)**
Curricular patterns and instructional practices in secondary science.

SCE 6644 **Interpreting and Teaching the Environment (3)**
An introduction to interpretation as it relates to environmental education, including theories, principles, and techniques of interpreting park, cultural, and natural resources to the public.

SCE 6645 **Mathematics and Science Education Policy, Change, and School Improvement (3)**
Knowledge, skills, and strategies are developed to become a facilitator of change for mathematics and science school improvement. Original change initiatives are designed and implemented.

SCE 6646 **Environmental Site Explorations (3)**
On-site experiences at informal science institutions (ISI) provide first hand opportunity to construct a holistic view of informal education industry, its organization, career paths, management concerns, niches, nature and relationships among programs.

SCE 6735 **Trends in Math and Science Education for Elementary Teachers (3)**
This course will help students to develop an understanding of the theoretical frameworks and familiarity with literature on the multiple perspectives underpinning mathematics and science education.

SCE 6738 **Trends in STEM Education for Middle Grade Teachers (3)**

This course will help students to develop an understanding of the theoretical frameworks and familiarity with literature on the multiple perspectives underpinning Science, Technology, Engineering, Math (STEM) education.

SCE 6744   **Survey Update of Environmental Research Management Policies (3)**
Current & future scientific research topics of long term importance are explored providing an integrated update in science. Complex connections among the various natural, math, & social science; agriculture; psychology; & engineering are emphasized.

SCE 6803   **Physical Science for Elementary Teachers (3)**
The purpose of this course is to assist elementary grade teachers in developing physical science content knowledge and experiencing first hand inquiry teaching.

SCE 6804   **Physical Science for Middle Grade Teachers (3)**
The purpose of this course is to assist middle grade teachers in developing physical science content knowledge and experiencing first hand inquiry teaching.

SCE 6836   **Teaching Earth Space in Middle Grades (3)**
The purpose of this course is to assist middle grade teachers in developing science content knowledge and experiencing first hand inquiry teaching.

SCE 6838   **Teaching Earth Space in Elementary (3)**
The purpose of this course is to assist elementary teachers in developing science content knowledge and experiencing first hand inquiry teaching.

SCE 6855   **Teaching Biology & Ocean Science in Elementary (3)**
This is a graduate level course for elementary school teachers to further their knowledge and pedagogy in teaching the Life Sciences concepts comprising the Next Generation National Science Standards.

SCE 6865   **Technology: Solving Societal Problems (3)**
Specific examples of mathematics/science/technology/society interaction are provided for integration into school-based mathematics and natural science courses.

SCE 6866   **Understanding Mathematics, Science, and Technology: Human Enterprises (3)**
Science, mathematics, and technology are presented as one multifaceted, dynamic, human-made enterprise responding to the human search for an understanding of the realities of the world. Different "Ways of Knowing" are compared.

SCE 6876   **Teaching Biology & Ocean Science in Middle Grades (3)**
This is a graduate level course for middle school teachers to further their knowledge and pedagogy in teaching the Life Sciences concepts comprising the Next Generation National Science Standards.

SCE 6906   **Independent Study in Science Education (1-6)**
Independent Study in which students must have a contract with the instructor. Rpt. S/U

SCE 6938   **Topics in Science Education: Field Practicum (3)**

This seminar provides teacher candidates with opportunities to interact with peers, public school faculty and university faculty regarding classroom and related school-based experiences. This course is restricted to science education majors.

SCE 6947   **Internship in Secondary Education for Social Sciences (6)**
Students will work with a cooperating teacher and university supervisor to complete their internship requirements in a classroom setting assigned by the university.

SDS 6042   **Introduction of Student Affairs (3)**
Provides students with knowledge of the history, philosophy, organization and structure of Student Affairs, Student Affairs functions and professional competencies, and legal and ethical issues.

SDS 6260   **Assessment in Student Affairs (3)**
This course is available only to students in a College Student Affairs cohort, unless otherwise approved by the instructor. The purpose of this course is to teach theory and application of assessment principles and techniques necessary for the student affairs profession.

SDS 6411   **Introduction to Student Personnel Work in Higher Education (2)**
Study of student personnel services in institutions of higher education. Identification of the needs of students and of the ways to respond to meet these needs. Survey of service units on a campus in terms of structure, organization, funding, etc.

SDS 6501   **Group Theory and Practicum: Children (4)**
Experiential study of group structures, group dynamics, methodology, and leadership models applicable to counseling in the elementary schools. Skill building through supervised practicum in leading groups of elementary school children.

SDS 6621   **Financial Aid Administration (2)**
The purpose of this course is to provide an overview of the history, fundamental concepts, and organization of financial aid administration. The role of financial aid in enrollment management will be addressed.

SDS 6624   **Ecology of Campus Life (3)**
Provides students with an understanding of the changing demographics, environmental and developmental issues facing college students.

SDS 6641   **Student Affairs Auxiliary Functions (3)**
Review of major auxiliary functions in Student Affairs. Includes strategic and operational issues in planning for and operating auxiliary facilities and technological innovations.

SDS 6645   **Student Development Theory (3)**
An in-depth study of student development theories including those in the areas of cognitive, psychosocial and typology theories. Students will examine theoretical perspectives and learn how to apply them in practical situations encountered in higher education settings.

SDS 6648   **Introduction to Academic Advising (3)**
Introduce the basic principles of academic advising.

SDS 6650   **Organization and Administration of Student Affairs (3)**
Provide a solid foundation of core competencies and skills related to management. The effective student affairs administrator is able to manage staff, systems, and activities with efficiency.

SDS 6700   **Advising Diverse Populations (3)**
This course was designed to equip advisors to work with special populations of students with specific needs.

SDS 6701   **Issues in Diversity (2)**
Addresses individual and organizational issues of multiculturalism and diversity in higher education.

SDS 6702   **Issues in Academic Advising (3)**
This course was designed to address special topics that may arise in an academic advising setting.

SDS 6703   **The Law and Student Affairs (3)**
This course for graduate students in College Student Affairs will focus on the legal context associated with the duties of the student affairs professional. The focus will be on an understanding of constitutional, statutory, and contract law.

SDS 6801   **Practicum in Counseling Children (4)**
Supervised counseling experiences for integration of knowledge and skills gained in didactic study. Focus is on working with elementary age children, parent and teachers.

SDS 6820   **Internship in School Counseling (3-6)**
Field experience involving one semester of full-time participation or two semesters of part-time participation in all guidance related activities in an elementary or secondary school; classroom guidance; individual and group counseling; assessment/evaluation; staffing; record keeping; etc.

SMT 6315   **Middle and Secondary STEM Methods (3)**
This course is designed for in-service middle and high school math or science teachers. It provides an opportunity to discuss current pedagogical philosophies and strategies in science, technology, engineering, and mathematics (STEM) education.

SOP 4714C   **Environmental Psychology (3)**
Explores the influences of environment on behavior. Topics considered include crowding, privacy, territorial behavior, environmental design, and pollution effects. Designed for both psychology majors and non-majors.

SOP 6068   **Personality and Social Psychology (3)**
This course is a survey of modern personality and social psychology. It will examine how personal attributes and social situations influence human behavior. Major

contemporary theories of how personality and social variables individually and collectively affect human feelings, thoughts and actions will be presented.

SOP 6709   **Topics in Social Psychology (3)**
This course examines theory and research in social psychology. We will cover both "classic" issues in modern social psychology as well as recent trends, emerging perspectives, and cutting edge research (with an emphasis on more recent research).

SOP 6739   **Cultural Competence (3)**
Addresses core concerns of multicultural and cross-cultural psychology, with particular emphasis on research methodology, critical thinking, and applications of research.

SOW 6105   **Foundations in Human Behavior (3)**
Introduces a systems perspective on understanding the relationships inherent in human growth and development. Special emphasis is placed on issues involving minorities, women, the disabled, various family forms, and sexual preference.

SOW 6124   **Psychopathology (3)**
This third course in the behavior sequence focuses on mental and emotional disorders. Content includes broad classifications of mental and behavioral disorders and their bio psychological disorders and implications of social work practice in dealing with these disorders.

SOW 6126   **Health, Illness, and Disability (2)**
This fourth course in the behavior sequence focuses on physical disorders and implications of social work practice in the area of long-term protracted chronic illnesses and the ensuing psychosocial disabilities.

SOW 6186   **Foundations of Social Work Macro Practice (2)**
Introduction to the process of planned change at macro-level practice within neighborhoods, communities, and organizations. Examines development of strategic models and techniques that primarily support social change.

SOW 6235   **Foundations of Social Welfare Policy (3)**
Examines historical antecedents of social welfare as an institution and current state of social welfare programs in America. Emphasis is placed on understanding social, economic, and political forces that shape policies and programs.

SOW 6236   **Social Welfare Policy Development & Analysis (3)**
Presents various methods of policy analysis with emphasis on distinctions among legislative, administrative, and judicial policy. Examines roles and responsibilities of the professional practitioner in the policy process.

SOW 6243   **Working with Systems of Care to Benefit Infants and Toddlers (3)**
Course includes theoretical approaches for IFMH services at the systems level, analyzing family, agency, and community systems and how they interact. It reviews social policy and service system dynamics that impact infant/toddler and family development.

SOW 6305   **Foundations of Social Work Micro Practice (3)**

Describes full range of social work interventions, from micro to macro. Historical development of practice methods and survey of current techniques.

SOW 6342 **Social Work Practice with Individuals (3)**
Application of clinical practice to work with individuals. Psychosocial model is emphasized. Professional laboratory develops skills in practice.

SOW 6348 **Clinical Practice Perspectives on Race and Culture (3)**
Theories for clinical practice, with emphasis on the psychosocial model. Explores basic skills for clinical practice.

SOW 6362 **Social Work Practice with Couples and Families (3)**
Emphasizes selection of techniques in the psychosocial model of treatment. Primary focus on family, couple, and parent-child problems. Course includes skill practice lab sessions.

SOW 6368 **Social Work Practice with Groups (3)**
Focus on psychosocial model of group treatment. Comparison with individual and family modality.

SOW 6375 **Advanced Social Work Macro Policy (3)**
Studies facets of organizational environment in which clinical practice takes place; develops skills in various macro practice functions of the agency, such as supervision, program operations, and interagency relations.

SOW 6405 **Foundations of Social Work Research and Statistics (3)**
This is the first of four research methods courses intended to introduce students to the various methods, designs, measurements, and statistical techniques in social work research.

SOW 6426 **Field Research I (1)**
This is the third in a series of four research courses. It provides the structure for supervision of graduate research projects.

SOW 6427 **Field Research II (1)**
This is the fourth and final research course. It provides the mechanism for supervision of the graduate research project.

SOW 6438 **Evaluation of Clinical Practice in Diverse Setting (3)**
Course builds on foundation content of SOW 6405. Program evaluation, single subject/system design, and statistical and qualitative concepts are discussed in order to facilitate the use of empirical and evidence based interventions in social work practice.

SOW 6534 **Field Instruction I (1)**
Supervised field instruction in a social service agency, consisting of 20 hours per week, plus a 3-hour practice seminar.

SOW 6535 **Field Instruction II (4)**

Supervised field instruction in a social service agency, consisting of 32 hours per week, plus a 2-hour practice seminar.

SOW 6536   Field Instruction III (2-4)
Supervised field instruction in a social service agency, consisting of 20 hours per week, plus a 2-hour practice seminar. Includes integrative paper or exam.

SOW 6539   Field Instruction IV (4)
The last field seminar course is designed to offer a structured environment in which to integrate academic course work with the field placement. Students learn advanced clinical skills in preparation for professional clinical social work practice.

SOW 6553   Field Instruction Sequence IA: Part-Time (2)
This is the first of a series of seven field instruction courses designed to provide students with opportunities to develop beginning clinical social work competency in applying knowledge to practice situations.

SOW 6554   Field Instruction Sequence IB: Part-Time (2)
This course is the second of seven sequential courses. Each consists of 10-15 hours per week (150 hours total) of agency field learning taught by an agency field instructor with a one-hour practice seminar taught by a University-based instructor.

SOW 6555   Field Instruction Sequence IIA: Part-Time (2)
This course is the third of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.

SOW 6556   Field Instruction Sequence IIB: Part-Time (2)
This course is the fourth of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.

SOW 6557   Field Instruction Sequence IIC: Part-Time (2)
This course is the fifth of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.

SOW 6558   Field Instruction Sequence IIIA: Part-Time (2)
This course is the sixth of seven sequential courses. Each consists of 10-15 hours per week of agency field taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.

SOW 6559   Field Instruction Sequence IIIB: Part-Time (2)
This course is the last of seven sequential courses. Each consists of 10-15 hours per week of agency field learning taught by an agency field instructor on a one-hour practice seminar taught by a University-based instructor.

SOW 6900   Independent Study (1-3)

A reading program in selected topics under supervision of a faculty member. A formal contract must be approved by School Director.

SOW 6931   **Selected Topics in Social Work (1-4)**

SPA 3653L   **Overview of Language Learning in Deaf Children Lab (1)**
An exploration and overview of communication modes and language used in public school settings by deaf children. Includes a study of how systems overlap and a development of flexibility in using different modes and languages, and the implications for interpreters.

SPA 5120   **Psychoacoustics (3)**
Relationship between physical auditory stimuli and psychological response. Human perception of intensity, loudness, frequency, and pitch. Impact of cochlear hearing loss and age on auditory perception. Measurement of auditory perception.

SPA 5132   **Audiology Instrumentation (3)**
Instruction in the use of clinical and laboratory instrumentation. Emphasis placed on electronic circuitry, signal generation, filtering, and calibration. Hands-on experience with equipment typically used in clinical auditory research will be provided.

SPA 5153   **Quantitative Problem Solving in Speech Pathology and Audiology (3)**
Covers fundamental mathematical and statistical concepts underlying the field of Communication Sciences and Disorders and application of these concepts to practical and clinical problems. Not restricted to majors or repeatable for credit.

SPA 5204   **Advanced Clinical Phonology (3)**
The principles of generative phonology will be applied to the assessment and treatment of phonological disorders. Emphasis is placed on making a child's phonology more functional for communication purposes.

SPA 5303   **Auditory Anatomy and Physiology (3)**
Provide a comprehensive understanding of the physiological acoustics of the auditory periphery, neuroanatomy and electrophysiology of the central auditory system, and psychoacoustic principles as they relate to clinical audiologic measurement paradigms.

SPA 5328   **Rehabilitative Audiology for Adults (3)**
Assess and manage persons with hearing loss. Effects of hearing impairment, assessment issues, and appropriate intervention strategies. Prosthetic intervention, perceptual intervention, communication strategies intervention, and counseling issues.

SPA 5403   **Language-Learning in the School-Age Years (3)**
Metalinguistic and metacognitive development are linked to the interactional demands of classroom and clinical discourse; observational tools are applied to evaluation and intervention planning.

SPA 5506   **Speech-Language Pathology and Audiology Practicum (1-8)**
Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.

SPA 5552   **Diagnostic Principles and Practices (3)**
The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.

SPA 6102   **Neuroanatomy for Speech and Hearing (3)**
Neuroanatomical and neurophysiological principles, structures and functions that subserve speech, hearing, language, and cognition are studied. A case-based approach illustrates the behavioral manifestations of neuropathologies. Majors only.

SPA 6211   **Advanced Vocal Disorders (3)**
Students will be familiarized with perceptual, physiological, psychological, and behavioral processes involved in voice production, and apply this knowledge to assessment and treatment of voice disorders. Restricted to majors and may not be repeated.

SPA 6225   **Advanced Fluency Disorders (3)**
This course covers characteristics of people who stutter, the morphology of stuttering in children and adults, motor and linguistic processes of normal speech, theories of causes of stuttering, and methods for evaluating and treating stuttering**.**

SPA 6232   **Neuromotor Communication Disorders (3)**
A study of the medical, physical, occupational, speech, language, and hearing problems of the neuro-motorically impaired client. Therapy techniques are reviewed and evaluated.

SPA 6245   **Craniofacial Communication Disorders (3)**
An in-depth study of speech, language, and hearing problems associated with cleft lip and cleft palate and other craniofacial dysmorphologies. Consideration is given to the multidisciplinary approach to therapy and rehabilitation.

SPA 6305   **Pediatric Audiology (3)**
Etiologies and manifestations of hearing loss within a pediatric population. Survey of procedures used in early identification and quantified measurement of hearing loss in young and non-communicative children.

SPA 6307   **Speech Perception and Sensorineural Hearing Loss (3)**
The course will provide an overview of the factors involved in quantifying speech perception ability in listeners with normal and impaired hearing.

SPA 6311   **Medical Audiology (3)**
Anatomy & patho-physiology of the auditory system, medical genetics, congenital & acquired ear diseases, disorders of balance, & tinnitus. These areas will be related to audiology test results; diagnostic imaging, medical & surgical treatments.

SPA 6314   **Electrophysiology (3)**
This course focuses on the auditory brainstem response (ABR) as an essential diagnostic and screening tool. The course follows a combined lecture/laboratory mode with weekly class meetings and weekly laboratory exercise.

SPA 6316   **Vestibular Evaluation and Treatment (3)**
Principles and clinical practices of assessing the peripheral and central components of the human vestibular system using electrical recordings of induced and spontaneous nystagmus.

SPA 6324   **Aural Rehabilitation: Children (3)**
Provide information and strategies for aural habilitation intervention with hearing impaired children. Includes techniques of speech reading, auditory training, and language for hearing impaired.

SPA 6329   **Educational Audiology (3)**
Provides information on consulting and collaborating with speech pathologists, teachers, and others about the relationship of hearing loss to the development of psychosocial, communicative, cognitive, physical, academic, and vocational skills of a child.

SPA 6340   **Principles of Amplification I (3)**
Provide information and training concerning the design and measurement of the modern hearing aid. The history of hearing aids, types of hearing aids, hearing aid components, measurement and modification of hearing aid response, and earmold acoustics**.**

SPA 6341   **Principles of Amplification II (3)**
The general goal of this second of three hearing aid courses is to provide information and training related to the assessment, selection, fitting, verification, and validation processes associated with the modern hearing aid.

SPA 6349   **Advanced Study of Sensory Aids for Hearing Impaired (3)**
This course is designed to supplement and expand on previous coursework through a discussion of advanced technical, clinical, and professional issues related to the design, measurement, and fitting of sensory aids.

SPA 6354   **Hearing Conservation (3)**
An investigation of the hazardous properties of noise and their effects upon the human auditory systems; hearing conservation programs in industry; and the extra-aural effects and control of community noises.

SPA 6392   **Profession of Audiology (2)**
Acquaint students with a basic understanding of the profession of Audiology. Topics covered include: Historical underpinnings, scope of practice, ethics, legal issues, evidence-based practice, professional organizations, and current issues.

SPA 6393   **Audiology Practice Management (3)**
The foundation necessary to initiate and manage a successful practice: individual management styles, selection and appraisal of office staff, marketing, budgeting, fiscal fitness, Florida licensure laws, and certification standards.

SPA 6401   **Pediatric Language Disorders (3)**

An examination of the pre-verbal and language skills of the infant and preschool child, and of the Speech-Language Pathologist's role in the diagnosis, treatment, and as parent-trainer for these children.

SPA 6404   **Language Learning Disabilities (3)**
Examination of research and clinical literature pertaining to causes and effects of atypical language and literacy learning and developmental frameworks for integrated intervention in oral and written language.

SPA 6410   **Aphasia and Related Disorders (3)**
Consideration of the neurological and psychological aspects of aphasia and related disorders as they relate to communication disorders. Specific language therapy approaches are discussed and evaluated.

SPA 6417   **Communication + Cognition in Traumatic Brain Injury (3)**
This course focuses on theoretical foundations of the study and management of neurocognitive disorders associated with right brain damage and traumatic brain injury, with special attention to major differences between focal and diffuse brain pathology.

SPA 6473   **Multicultural Differences in Language (3)**
The focus is on developing intercultural competencies to design and implement more culturally and linguistically appropriate services for individuals with communication disorders or differences.

SPA 6503   **Entry Level Practicum (3)**
Participation in speech-language pathology and audiology practicum in the University clinical laboratory.

SPA 6505   **Practicum (1-10)**
Participation in speech-language pathology and audiology practicum in the University clinical laboratory and selected field settings.

SPA 6508   **Advanced Audiology Practicum (3-6)**
Students are placed at a clerkship/externship site(s) and participate in a variety of clinical and professional activities to develop advanced clinical skills through direct practical experience in diagnostics, treatment, and patient management.

SPA 5133C   **Speech Science Instrumentation (3)**
Underlying principles and laboratory exercises in the use of audio recording, acoustic analysis, and clinical instrumentation.

SPA 6535L   **Audiology Clinical Laboratory I (3)**
Covers the operation of clinic equipment and test procedures used in the basic assessment of hearing sensitivity. Practice with equipment and test procedures takes place in the lab and clinical settings.

SPA 6536L   **Audiology Clinical Laboratory II (3)**

Covers development of skills in the assessment and management of auditory ability and function, including site of lesion; auditory processing; tinnitus; cochlear implant candidacy; and auditory (re)habilitation pediatric and adult populations.

SPA 6553   **Advanced Differential Diagnosis and Treatment Planning (3)**
The interpretation of evaluation results and the integration of these data in order to make a differential diagnosis leading to an appropriate therapy plan. The administration, evaluation, and reporting of advanced evaluation techniques not covered in SPA 5552.

SPA 6559   **Augmentative & Alternative Communication (3)**
Listed in catalog as 6413 this course details the in-depth assessment and treatment of communication modes in nonspeaking individuals. Students will be presented with the variety of aided and unaided systems which exist for helping non-speaking persons; students gain experience in the use of these devices.

SPA 6564   **Seminar in Aging, Cognition, and Communication (3)**
This course focuses on the interdependence of communication and cognition in older adults, emphasizing relationships among physical health, social context, cognition, and communication.

SPA 6565   **Seminar in Dysphagia (3)**
The course covers normal and abnormal anatomy/physiology related to swallowing function, etiology, symptoms, and technique/instrumentation for diagnosis and management of dysphagia and procedures for analysis, treatment, and management.

SPA 6571   **Ethical Practice Issues in Communication Sciences and Disorders (1-2)**
Topics include: legal and ethical issues affecting practice, licensure, and ASHA certification, the ASHA Code of Ethics, laws and regulations in healthcare and educational settings and quality assurance standards. Must be repeated for 2 total credits.

SPA 6645   **Language for the Hearing Impaired (3)**
Listed in catalog as SPA 6421 techniques and materials of teaching language to children with auditory disorders as well as evaluation and analysis of contemporary intervention and clinical methods.

SPA 6674   **Curriculum Proced/materials For Hearing Impaired (3)**
Curricular adaptation, methods, techniques, and organization necessary for teaching the hearing impaired.

SPA 6675   **Reading for the Hearing Impaired (2)**
Techniques and materials for teaching reading to children with auditory disorders. Evaluation and analysis of contemporary programs and methods.

SPA 6676   **Speech Perception and Sensorineural Hearing Loss (3)**
Overview of the acoustics of speech and theories of speech perception. Speech perception in listeners with normal and impaired hearing. The role of speech

audiometry in clinical assessment of speech perception abilities and central auditory processing.

SPA 6805 **Research Procedures in Communication Sciences and Disorders (3)**
Advanced research and experimental design techniques employed in clinical and laboratory settings in speech-language pathology and audiology.

SPA 6906 **Independent Study (1-19)**
Independent study in which students must have a contract with an instructor.

SPA 6910 **Directed Research (1-19)**

SPA 6930 **Selected Topics (3)**
A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member.

SPA 6971 **Thesis: Master's (2-19)**

SPB 6116 **Sport and Entertainment Finance (3)**
This course provides the opportunity to apply financial concepts, tools, and techniques to the global sport and entertainment industry.

SPB 6406 **Sport and Entertainment Law (3)**
Identifies key legal issues in a sport context; provides an overview of areas of law that regulate the sport and entertainment industry including tort, contract, constitutional, criminal, employment, labor, antitrust and agency law.

SPB 6605 **Sport and Social Issues (3)**
This course examines the social environment of sport and discusses the various diversity theories, focusing on the application of these theories to organizations in the sport business and entertainment management industry.

SPB 6608 **Issues in the American Sport Industry (3)**
Examines professional sport industries with regard to their role in sport as a competitive culmination point and also their role as a form of entertainment. Both of these roles will be examined in the context of the business of professional sport.

SPB 6706 **Sport Business Analytics (3)**
Students are introduced to the skills, technologies, applications and practices essential to understanding and evaluating business performance in sport and entertainment.

SPB 6715 **Sales and Fundraising in the Sport Industry (3)**
Teaches students about the "art" and "science" of fundraising in the diverse industry of sports. Further, students will learn the competencies and skills essential to succeed in the sales and promotional activities commonly found in the sport industry.

SPB 6719 **Sport and Entertainment Marketing Strategy (3)**

Provides an historical overview of sport marketing and examines the application of marketing principles to collegiate and professional sport and sport-related organizations.

SPB 6735   **Global Environment of Sport (3)**
This course examines the global economic, social, political, technological, and legal environments of sport, the marketing factors driving globalization, and the challenges of intercultural management in sport organizations.

SPB 6807   **Social Media in Sport (3)**
Examines the role of social media in building and enhancing relationships with fans and explores the opportunities and challenges in leveraging a social media strategy to transfer the consumer's use of social media from cyberspace to the real world.

SPB 6816   **Contemporary Issues in Sport and Entertainment Management (3)**
Contemporary Issues in Sport and Entertainment Management examines the historical trends, ethical concerns, and current economic, technological, and social issues in the field of sport and entertainment management.

SPB 6818   **Economics of Sport (3)**
This course applies the principles of macro and micro economics to global sport organizations, including topics such as industrial organization, public financing, and labor economics.

SPB 6946   **Internship in Sport and Entertainment Management (3)**
A supervised field experience, the Internship in Sport and Entertainment Management provides hands-on experience in sport, sport-related, and entertainment organizations.

SPC 5930   **Topics in Discourse (3)**
Variable topics course.

SPC 6214   **Ethnography of Communication (3)**
Explores ethnography as an approach to conducting research and a means of theorizing about human communication.

SPC 6236   **Contemporary Rhetorical Theory (3)**
Basic texts in 20th century rhetorical theory. Readings may vary.

SPC 6238   **Survey of Rhetorical Theory (3)**
Historical development of rhetorical theory from Plato to contemporary theorists with emphasis upon the evolution of trends and concepts in rhetorical theory.

SPC 6391   **Interpersonal Communication (3)**
Study of theory and research related to interpersonal communication.

SPC 6432   **Family Communication (3)**
This course examines the family in terms of the patterns of interaction through which meanings are produced. Family communication concepts and theories will be introduced as they relate to diverse family forms and experiences.

SPC 6645   **Rhetoric in Society (3)**
Examination of ways in which rhetoric reflects and molds social processes, including social integration and/or alienation; social roles and identity construction; institutions and movements; ideology and social change.

SPC 6682   **Rhetorical Criticism (3)**
The study of theoretical perspectives in rhetorical criticism. The application of criticism to selected rhetorical situations.

SPC 6726   **Communication in Close Relationships (3)**
Interpersonal and intersubjective processes involved in the development of close personal relationships. Includes studies and personal experiences that cut across historical, therapeutic, spiritual, philosophical, literary, and cinematic perspectives.

SPC 6728   **Communicating Grief, Loss, and Illness (3)**
How illness and loss disrupt our stories of self and relationships and lead to construction of new stories, also cultural patterns of stories. Topics include critical illness and relationships, dying, bodies, emotions, caregiving, aging, and divorce.

SPC 6903   **Directed Readings (1-4)**

SPC 6913   **Directed Research (1-19)**

SPC 6934   **Selected Topics in Communication (1-4)**

SPC 6971   **Thesis: Master's (2-19)**

SPN 5525   **Modern Spanish American Civilization (3)**
Advanced readings and discussions dealing with Spanish American civilization and culture, including a study of social, artistic and political trends. Text and discussion in Spanish.

SPN 5567   **Modern Spanish Civilization (3)**
Advanced readings and discussions dealing with contemporary Spanish civilization and culture, including a study of recent social, artistic and political trends. Texts and discussions in Spanish.

SPN 6845   **History of the Spanish Language (3)**
Traces the development of Spanish from its Latin origins to the present.

SPN 6846   **Spanish Paleography and Textual Criticism (3)**
Analysis of Spanish historical documents, paleography, and textual criticism.

SPS 6101   **Child and Adolescent Behavior Disorders (4)**
Theoretical and empirical identification and understanding of children and adolescents with behavior disorders. Treatment issues as they relate to school psychological services.

SPS 6196 **Assessment of Child and Adolescent Personality (4)**
Conceptualizations of personality and personality assessment; perspectives of disturbed and disturbing behavior, and personality assessment measures.

SPS 6197 **Psychoeducational Diagnosis and Prescription I (4)**
Content covers comprehensive diagnosis and prescription in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, interviewing, client histories, pluralistic psychoeducational assessment, assessment of educational environments, synthesis and dissemination of diagnostic data, and referral procedures. Appropriate field experiences will be provided. This course must be taken during two consecutive semesters, and the grade will be awarded at the end of the sequence.

SPS 6198 **Psychoeducational Diagnosis and Prescription II (4)**
Content covers comprehensive diagnosis and prescription in school psychology, including critical reviews of relevant research literatures, the professional-client relationship, interviewing, client histories, pluralistic psychoeducational assessment, assessment of educational environments, synthesis and dissemination of diagnostic data, and referral procedures. Appropriate field experiences will be provided. This course must be taken during two consecutive semesters, and the grade will be awarded at the end of the sequence.

SPS 6936 **Graduate Seminar in School Psychology (1-3)**
Seminars to explore current matters of professional concern in school psychology, such as trends, problems, legal and ethical issues, and empirical bases of techniques.

SPS 6940 **Practicum in Psychoeducational Interventions (1-4)**
Course provides practical experiences and implementation of skills discussed and acquired in the intervention courses within settings relevant to school psychology.

SPS 6941 **Practicum in Psychoeducational Interventions (1-4)**
Course provides practical experiences and implementation of skills discussed and acquired in the intervention courses within settings relevant to school psychology.

SPS 6947 **Internship (1-9)**
Involves field-based, supervised experience of 1,500 (minimum) clock hours at the Educational Specialist level and 2,000 (minimum) clock hours at the Doctoral level.

SPS 6971 **Thesis: Masters/Educational Specialist (2-19)**

SPS 6700C **Psychoeducational Interventions with Children and Adolescents I (4)**
Content covers psychoeducational interventions for school-referred children and adolescents specific to school psychological services. This is an integrated sequence of courses addressing educational and psychological (direct and indirect) interventions with topics also including consultative service delivery, the acceptability of classroom strategies, classroom and behavior management, and the synthesis of assessment data into effective interventions all within the referral context. Appropriate field experiences

will be required for Intervention I and Intervention II; therefore, concurrent enrollment in the Intervention Practicum course for these two courses only is required.

SPS 6701C   **Psychoeducational Interventions with Children and Adolescents II (4)**
Content covers psychoeducational interventions for school-referred children and adolescents specific to school psychological services. This is an integrated sequence of courses addressing educational and psychological (direct and indirect) interventions with topics also including consultative service delivery, the acceptability of classroom strategies, classroom and behavior management, and the synthesis of assessment data into effective interventions all within the referral context. Appropriate field experiences will be required for Intervention I and Intervention II; therefore, concurrent enrollment in the Intervention Practicum course for these two courses only is required.

SPS 6702C   **Psychoeducational Interventions with Children and Adolescents III (4)**
Content covers psychoeducational interventions for school-referred children and adolescents specific to school psychological services. This is an integrated sequence of courses addressing educational and psychological (direct and indirect) interventions with topics also including consultative service delivery, the acceptability of classroom strategies, classroom and behavior management, and the synthesis of assessment data into effective interventions all within the referral context. Appropriate field experiences will be required for Intervention I and Intervention II; therefore, concurrent enrollment in the Intervention Practicum course for these two courses only is required.

SPW 5135   **Colonial Spanish American Literature (3)**
Introduction to Colonial Spanish American Literature from the discovery through the Romantic Period.

SPW 5339   **Golden Age Drama (3)**
Lope de Vega, Alarcon, Tirso, Calderon, and others.

SPW 5375   **Latin American Short Story (3)**
The course examines the state of the Spanish American short story in the 20th Century through reading, analysis and discussion of primary and secondary texts.

SPW 5387   **Spanish American Prose (3)**
Emphasis on the gaucho theme and contemporary prose fiction.

SPW 5405   **Medieval Literature (3)**
Course gives an in-depth study of principal works and authors of the period such as El Poema de Mio Cid, Libro de Buen Amor, and La Celestina**.**

SPW 5465   **19th Century Literature (3)**
An appreciation of the romantic and realist periods in Spanish literature.

SPW 5597   **Latin American Culture in Fantastic Literature and Film (3)**

A panoramic view of Spanish American fantastic and science fiction literature and film in order to analyze their relationship to historical, philosophical and cultural trends from the end of the 19th century to the beginning of the 21st century.

SPW 5605   Cervantes (3)
Cervantes' masterpiece Don Quijote de la Mancha.

SPW 5725   Generation of 1898 (3)
The major figures of the period and their main followers.

SPW 5934   Selected Topics (3)
Study of an author, movement, or theme.

SPW 6427   Golden Age Novel (3)
Realistic prose-fiction of the Renaissance and Golden Age.

SPW 6485   Post Civil War Literature (3)
The drama and novel since 1936.

SPW 6775   Caribbean Literature (3)
Emphasis on contemporary Cuban and Puerto Rican literature.

SPW 6806   Introduction to Hispanic Graduate Studies (3)
Introduce students to speaking, reading and writing at the graduate level and provide an overview of the MA in Spanish at USF.

SPW 6910   Directed Research (1-19)

SPW 6971   Thesis: Master's (2-19)

SSE 5331   Foundations, Curriculum & Instruction of Social Science Education (3)
Social studies curriculum, methods of instruction and social, philosophical and psychological foundations are examined. Students are expected to plan and present instructional plan(s) appropriate to middle and secondary school levels demonstrating command of the course content.

SSE 5332   Methods & Strategies in Social Science Education (3)
Social studies methods and strategies are examined with an emphasis on the secondary school environment. The teaching profession, school settings, and current issues are examined. Students are expected to plan and present instructional plan(s) appropriate to senior high school demonstrating command of the course content.

SSE 5641   Reading and Basic Skills in the Content Area (3)
Reading skills and the other basic skills as applied to the social studies are examined. Students are expected to plan and present instructional plan(s) appropriate to the social studies classroom demonstrating command of the course content. Fieldwork in a middle school is required.

SSE 5946   Practicum in Social Science Education (3)

The course is a practicum course in which pre-service teachers apply the knowledge, skills, and dispositions learned in prerequisite program courses to teach the social studies themes adopted by the National Council for the Social Studies.

SSE 6617   **Trends in K-6 Social Science Education (3)**
This course focuses on theoretical foundations and strategies employed by effective social studies teachers in motivating K-6 aged youth to acquire the information, skills, and reasoning unique to the social sciences. Students also conduct research.

SSE 6636   **Trends in Secondary Social Science Education (3)**
This course is designed for graduate students to research the history, theory, practices and current trends of social science education and to develop a personal, academic social science philosophy.

SSE 6906   **Independent Study in Social Sciences Education (1-6)**
An opportunity for advanced graduate students to examine a specific issue or topic in the field of social science education.

SSE 6932   **Selected Topics in Social Science Education (3)**
Readings and discussions organized around an in-depth examination of selected social studies education topics selected by professors.

SSE 6947   **Internship in Secondary Education for Science (6)**
Students will work with a cooperating teacher and university supervisor to complete their internship requirements in a classroom setting assigned by the university.

STA 5166   **Statistical Methods I (3)**
Statistical analysis of data by means of statistics package programs. Regression, ANOVA, discriminant analysis, and analysis of categorical data. Emphasis is on inter-relation between statistical theory, numerical methods, and analysis of real life data.

STA 5326   **Mathematical Statistics I (3)**
Sample distribution theory, point & interval estimation, optimality theory, statistical decision theory, and hypothesis testing.

STA 5446   **Probability Theory I (3)**
Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.

STA 5526   **Non-Parametric Statistics (3)**
Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.

STA 6167   **Statistical Methods II (3)**
Design of statistics programs, pivoting and other technology used in stepwise regressions, algorithms in non-linear regression, balanced and unbalanced ANOVA. Iteration methods for numerical solutions of likelihood equations.

STA 6206   **Stochastic Processes (4)**
Poisson processes, renewal theorems, Markov chains on a countable state space, continuous-time Markov processes with a countable state space, birth and death processes, branching processes, introduction to Brownian motion.

STA 6208   **Linear Statistical Models (3)**
Distribution theory, estimation, and hypothesis testing for the general linear model. Experimental designs, including randomized block and incomplete block designs. Multiple regression, ANOVA, and ANCOVA.

STA 6447   **Probability Theory II (3)**
Axioms of probability, random variables in Euclidean spaces, moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.

STA 6746   **Multivariate Analysis (3)**
Multivariate normal distribution; its properties and inference; matrix random variables; multiple and partial correlation; discriminant analysis, principle components and factor analysis; multivariate ANOVA; analysis of covariance; applications using computers.

STA 6876   **Time Series Analysis (3)**
Theory and applications of discrete time series models illustrated with forecasting problems. Filtering, forecasting, modeling, and spectral analysis of time series. Control problems. Applications using a computer.

SYA 6126   **Contemporary Sociological Theory (3)**
Emphasizes logical and conceptual dimensions of theory and theory construction.

SYA 6205   **Social Construction of Reality (3)**
Evolution of the concept of social construction; emphasizes the consequences of understanding lived experiences and discursive representations as social constructions. Topics include depression, child abuse, masculinity/femininity, and sexual harassment.

SYA 6305   **Methods of Research (3)**
Logic and practice of research; problems of observation and data collection, data processing, and evaluation**.**

SYA 6315   **Qualitative Research Methods (3)**
Designed to introduce students to qualitative research methods, such as participant observation and intensive interviewing that require the researcher to get close to the social situation of interest.

SYA 6316   **Ethnography (3)**
Examines the theoretical and practical issues in ethnographic research and various styles of ethnography. Provides hands-on training in ethnographic data collection and qualitative data analysis.

SYA 6405   **Sociological Statistics (3)**

Logic and application of parametric and nonparametric statistical analysis for sociological data.

SYA 6909   **Independent Study (1-19)**
Independent study in which student must have a contract with an instructor.

SYA 6912   **Directed Research (1-19)**

SYA 6933   **Special Topics-Sociology (3)**
Content varies according to interests of students and instructor.

SYA 6971   **Thesis: Master's (2-19)**

SYD 6605   **City and Community (3)**
Provides training in the field of urban and community sociology. Focuses on the field's early theoretical foundations, "classic" research, and contemporary debates. Concentrates on the U.S., although some cross-cultural comparisons will be offered.

SYD 6706   **Race and Ethnicity (3)**
Introduces historical development of race, social construction of racial and ethnic identities, race-class-gender interrelationships, and various issues of immigration. Exploration of theories used to explain racial and ethnic inequality today.

SYG 6936   **Seminar in Teaching Sociology (3)**
Provides a key link for future teaching sociologists, assisting them to make the switch from consumers to educators of the sociological perspective. Places equal emphasis on theoretical and practical issues surrounding teaching sociology.

SYO 6255   **Seminar in Sociology of Education (3)**
Sociological analysis of the institution of education. Primary attention directed toward class, race, and gender inequalities and educational transformations.

SYP 6007   **Constructing Social Problems (3)**
An examination of social problems using social constructionism theoretical perspectives. Topics focus on how humans create meaning and how this meaning influences reactions to conditions defined as social problems.

SYP 6008   **Social Problems, Identity, and Community (3)**
An examination of social problems using social constructionist theoretical perspectives. Topics focus on how meaning is created within historically, culturally, and politically situated communities.

SYP 6016   **Emotions in Everyday Life (3)**
Explores the role of emotions in the everyday lives of individuals, within the micro-social contexts of identities, interactions, and social relationships.

SYP 6357   **Comparative Social Movements (3)**

Provides an overview of the various theoretical perspectives used to explain the emergence, growth, strategies and success of social movements in contemporary America and in other countries.

SYP 6425   **Sociology of Consumer Culture (3)**
This course critically examines the key theories and analyses of American consumerism with special attention to inequalities of race, class, and gender.

SYP 6515   **Sociology of Deviance (3)**
Develops knowledge of traditional theories of deviance as well as critiques them. Through development of alternative perspectives, challenges constructions of deviance and the mechanisms of power.

TAX 5015   **Federal Taxation of Business Entities (3)**
Tax issues encountered by small businesses. Includes tax planning, capital formation and preservation, tax compliance and tax alternatives.

TAX 6005   **Advanced Partnership Taxation (3)**
A study of advanced income tax problems involving partnerships, including organization, operation, distributions, liquidations, basis, family partnerships, and sales and exchanges. The planning and business aspects of partnerships are emphasized.

TAX 6065   **Contemporary Issues in Taxation (3)**
A study of contemporary issues in taxation with an emphasis on related computer research. Current tax issues in the areas of corporations or partnerships will be explored when appropriate, along with related tax planning techniques

TAX 6134   **Advanced Corporate Taxation (3)**
A study of advanced income tax problems involving corporations, including organization, operation, distributions, liquidations, consolidated corporate tax returns, and taxation of foreign corporations and foreign source income.

TAX 6445   **Estate Planning (3)**
This course covers the basics of estate, gift, and trust taxation and introduces the student to tax planning techniques to minimize the tax-burden on inter-generation transfers of wealth.

TAX 6940   **IRS VITA Tax Practicum (3)**
A course providing an opportunity for students to gain valuable experience in preparing tax returns and tax counseling and to apply their knowledge of classroom learning.

THE 5909   **Directed Studies (1-6)**
Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

THE 5931   **Selected Topics in Theatre (1-8)**
The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format.

THE 6175   **New British Theatre and Drama (3)**
A study of contemporary theatrical practice and key dramatic texts in the British Isles. Departmental permit required of majors and non-majors.

TPA 2220L   **Technical Theatre Lab III (1)**
A practical laboratory providing an understanding of the duties associated with lighting crews through hands on production experiences. Open to non-majors.

TPA2290L   **Technical Theatre Lab I (1)**
A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.

TPA 2219L   **Technical Theatre Lab II (1)**
A practical laboratory involving the pre-performance preparation of all technical aspects of a major production such as: painting, sewing, lighting, and sound. Students are assigned two areas of study per semester. Required of all Theatre majors. Open to non-majors.

TPP 3251C   **Acting the Song (3)**
This course will enable the student to approach music and lyrics from the actor's point of view. Lyrics are explored as monologues and music is explored as a way to support the emotional life of the character.

TPP 3252C   **Musical Theater Scene Study (3)**
This course teaches acting for the musical theatre. It addresses why songs occur, how to transition from dialogue to song, and the use of underscoring. It explores these techniques in distinct genres from the Golden Age of Musical Theater to the present.

TSL 5085   **ESOL I - Theory and Practice of Teaching English Language Learners (3)**
This course is for undergraduate degree holding, preprofessional (preservice) teachers to learn about appropriate instruction, assessment and learning opportunities for Limited English Proficient (LEP) students in the content areas.

TSL 5086   **ESOL II-Secondary Language & Literacy Acquisition in Children & Adolescents (3)**
This course is designed to provide students with a critical understanding of instructional delivery which caters for the linguistic and literacy needs of minority / heritage communities.

TSL 5241   **Applied Linguistics in Teaching Diverse Students (3)**
Instructional applications of teachers' knowledge about language (phonology, morphology, syntax, pragmatics, discourse) and language acquisition in linguistically diverse classrooms.

TSL 5242   **ESOL III-Language Principles, Acquisition & Assessment for English Language Learners (3)**
(3)

This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to LEP students.

TSL 5325 **ESOL Strategies for Content Area Teachers (3)**
Course designed for public school teachers working with limited English Proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers.

TSL 5326 **L2 Reading for ESOL Students across Content Areas (3)**
This ESOL course will provide students with understanding of the linguistic and literacy needs of minority/heritage students, and will negotiate issues of second language learning, language varieties, as well as critical literacy and reading.

TSL 5371 **Methods of Teaching English As a Second Language (3)**
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 5372 **ESOL Curriculum and Instruction (3)**
Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

TSL 5440 **Language Testing (3)**
Lecture course on testing English as a second/foreign language.

TSL 5525 **Cross-Cultural Issues in ESL (3)**
Lecture course on cultural issues in Teaching English as a Second/Foreign language.

TSL 5940 **ESOL Practicum (1-3)**
This course is restricted to Education majors and will not be repeatable for credit. A structured field experience with Limited English Proficient students.

TSL 6133 **Curriculum and Instructional Materials Development (3)**
Develop the knowledge, skills and dispositions necessary for the effective development and modification of instructional curricular, materials and technology appropriate for the delivery of ESOL methods and strategies to enhance instruction to ESOL students.

TSL 6253 **Applied Linguistics for Teaching ESOL (3)**
Course is designed to prepare participants with linguistic concepts & issues relevant to the field of applied linguistics 7 second language teaching. Course will survey sub-fields of linguistics (phonetics, phonology, morphology, semantics, and syntax).

TSL 6380 **Instruct Methods & Strategies for Teaching ESOL (3)**
Effective use of ESOL methods and strategies. Conceptual focus of this course is based on the teacher as self-directed, reflective practitioner and problem solver who is able to facilitate learning and change within diverse populations and environments.

TSL 6390 **Instruct Methods and Strategies for Teaching ESOL (3)**
Effective use of ESOL methods and strategies. Conceptual focus of this course is based on the teacher as self-directed, reflective practitioner and problem solver who is able to facilitate learning and change within diverse populations and environments.

TSL 6470 **Assessment and Progress Management for Teaching ESOL (3)**

Designed to develop knowledge 7 skills necessary to prepare students to select, adapt, and design assessment instruments & testing techniques reflective of instructional goals & needs of linguistically & culturally diverse students in ESOL or mainstream class.

TSL 6700   **ESOL for School Psychologists and School Counselors (3)**
Prepare school psychologists & school counselors to provide services for Eng language learners in their schools. Provides them with current research and guidance in the areas of program development, legislative mandates, and learner characteristics**.**

TSL 6945   **Internship (1-6)**
Required of all candidates for the M.A. degree in TESL. Supervised teaching of English as a second language to non-native speakers at appropriate levels and settings.

URP 6056   **City and Regional Planning (3)**
A review of goals, objectives, and interrelationships between regional and city planning; intergovernmental and policy issues. Cross-listed with Political Science.

URP 6058   **Community Development Planning (3)**
Course explores the process by which human communities emerge, grow, and sometimes decline and disappear. Also provides knowledge necessary to maximize use of communities' assets and minimize damage from natural or man-made features in their environment**.**

URP 6100   **Planning Theory and History (3)**
The course is designed acquaint the student with major trends in the evolution of urban planning thought and practice and introduce the student to fundamental theories of relevance to the field of urban and regional planning.

URP 6115   **Planning, Policy and Politics (3)**
Introduction to politics, government and policy making for planning students. Part of the required core for the URP program**.**

URP 6126   **Zoning & Local Economic Development (3)**
To familiarize students with the evolution and purpose of zoning as an instrument for regulating and controlling land use activities in the US. In addition, the course seeks to acquaint with the implications of zoning for local economic development.

URP 6201   **Quantitative Analysis in Urban & Regional Planning (3)**
Focuses on quantitative analysis techniques and their application in urban and regional planning.

URP 6232   **Research Methods for Urban and Research Planning (3)**
The course is designed to introduce students to strategies for designing research and the appropriate methods for collecting urban and regional planning data; familiarize students with social research and evaluation methods used in planning.

URP 6316   **Land Use Planning (3)**

The course is designed to acquaint the student with the principles, theory and practice of land use planning. The course constitutes one of the required courses in the MURP degree.

URP 6401   **Planning for Resilient Communities (3)**
Provide an overview of the field of resiliency and its planning attributes. The course will be both theoretical and practice driven in nature with a focus on how local governments can become more resilient in the face of climate change.

URP 6406   **Urban Environmental Policy (3)**
The purpose of this course is to examine issues related to environmental planning and policy within the context of the urban/humanly-built environment and its relation to surrounding natural environments.

URP 6422   **Environmental & Planning Issues in Coastal Communities (3)**
The content of this course will familiarize students with issues in environmental and urban planning unique to coastal communities, and explore the connections – current and potential – between the oceans and coastal urban areas.

URP 6444   **Global & Community Food Systems (3)**
Provides a general introduction to the food system, how it relates to planning and public policy, and an overview of the tools, strategies, and approaches public policymakers can utilize to address food system problems and challenges.

URP 6549   **Urban & Metropolitan Economic Development Strategies (3)**
The course is designed to provide the student an opportunity for community service and 'real world' learning. Community service learning will be employed as a pedagogical strategy to prepare students for 'real-world' issues in local economic development.

URP 6711   **Multimodal Transportation Planning (3)**
This course focuses on multimodal transportation planning, including planning for roadways, public transportation, bicycling, pedestrians, and the movement of freight.

URP 6906   **Independent Study (1-6)**
Independent study. Student must have contract with Instructor.

URP 6910   **Supervised Research (1-6)**
This course will allow graduate students to earn credits whole working on an independent research project that is focused in Urban and Regional Planning.

URP 6930   **Special Topics in Urban and Regional Planning (3)**
Topical issues in the study of Urban and Regional Planning. Content will vary each semester. It is repeatable for credit. There are no limits on the number of times a student can take courses listed under this title.

URP 6940   **Internship in Urban and Regional Planning (3-6)**
Students will gain practical experience in planning, working on projects with local planning agencies and firms. Course is restricted to URP masters students, and can be repeated for up to 6 credits.

URP 6971   **Thesis (2-19)**
This course will allow graduate students to earn credits whole working on a thesis that is focused in Urban and Regional Planning.

URP 6439C   **Disaster Resilient Community (3)**
The course examines factors to promote effective disaster mitigation with emphasis on involvement of community stakeholders. Attention is given to natural hazards and uses a community-engaged approach in partnership with public/private entities.

VIC 6007   **Visual Communication Theory (3)**
Digital technology has rewritten the rules of visual communication. This course explores evolving visual communication theories and case studies of visual representations in mass media in light of digital technology.

VIC 6310   **Visual Information Design (3)**
This course teaches practical applications of information designs in an exclusively digital media environment. Students learn to create information images in all their forms, from the static to motion graphics, but all for online presentation.

VIC 6316   **Brand Management (3)**
This course focuses on developing an understanding of brand equity in strategic communication management. It investigates how to build, measure, and manage brand equity, including management of brands over time, geographic boundaries, and market segments.

WST 5380   **Feminist Spirituality (3)**
Open to non-majors. Focuses on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and Wicca.

WST 5934   **Selected Topics (1-4)**
Study of current research methods and scholarship on women from a multidisciplinary perspective**.**

WST 5940   **Internship in Women's Studies (3-6)**
Student placement in an approved intern setting for a minimum of 240 hours of supervised experience. S/U only.

WST 6001   **Feminist Research and Methodology (3)**
To develop a more comprehensive understanding of the situation of women in society and to develop a theoretical basis for integrating this knowledge into the student's graduate course of study. Available to non-majors**.**

WST 6003   **Feminist Scholarship and Pedagogy (3)**
Introduces students to techniques of feminist teaching and scholarly writing. Covers issues of professionalism, an overview of contemporary scholarly issues in feminist studies, and basic feminist pedagogy. Department Approval Required.

WST 6005 **Women and Policy (3)**
Examination of policy areas such as employment, violence, welfare which have a significant impact on women. The aim is to achieve a deeper understanding of the way in which gender functions as a category of analysis in policy decision, and also examines and critiques the area from which policy is produced.

WST 6338 **Advanced Feminist Theories of Media and Popular Culture (3)**
This course surveys advanced feminist theoretical approaches to visual regimes, surveillance, scopophilia, encoding, representation, reception, pro-suming, commodification, pranking, and culture jamming.

WST 6406 **Women of Color: Activism and Social Change (3)**
Intensive reading and discussion of the participation of women of color in contemporary and reformist activities.

WST 6560 **Advanced Feminist Theory (3)**
An in-depth exploration of current issues and debates in Feminist Theories. Topics may include: representation, essentialism, authority structures, subjectivity, identity and difference. Department Approval Required.

WST 6562 **Body Politics (3)**
An in-depth feminist exploration of how the body is produced, inscribed, replicated, and often disciplined as a result of various powers at work.

WST 6900 **Directed Readings (1-3)**
Supervised program of intensive readings of an interdisciplinary nature focusing on women. Student must have contract with instructor.

WST 6910 **Directed Research (1-3)**
Provide graduate students with research experience in areas of specific interest utilizing feminist perspectives and research methods.

WST 6936 **Selected Topics in Women's Studies (3)**
Content varies according to scholarship focus of students and instructor. Repeatable--content and instructor will vary**.**

WST 6971 **Thesis (1-9)**
Content varies according to scholarship focus of students and instructor. Repeatable--content and instructor will vary.

ZOO 6455 **Advances in Ichthyology (1)**
This course discusses current topics in Ichthyology. Readings are taken from the primary literature. The course is restricted to graduate students with a background in Ichthyology.

ZOO 2710C **Anatomy of Chordates (4)**
Anatomy of selected vertebrate types emphasizing evolutionary trends. Lec.-lab.

ZOO 3205C   **Advanced Invertebrate Zoology (4)**
Phylogeny, taxonomy, development, physiology, macro-, microanatomy and natural history of marine/freshwater dwelling invertebrate phyla (including protists and excluding parasites and insects) covered in integrated manner. Extensive lab work/some fieldwork.

ZOO 3407L   **Biology of Sharks and Rays Laboratory (1)**
The laboratory portion of ZOO 3407 Biology of Sharks and Rays.

ZOO 3713C   **Comparative Vertebrate Anatomy (5)**
Anatomy of selected vertebrate types emphasizing evolutionary trends. Lecture and Laboratory.

ZOO 4454L   **Fish Biology Lab (1)**
This is a lab course in fish biology designed to familiarize undergraduate students with the anatomy, ecology, behavior, and classification of fishes.

ZOO 4753L   **Human Histology & Molecular Pathology of Disease Laboratory (1)**
Laboratory associated with Human Histology and Molecular Pathology of Disease.

ZOO 5456L   **Ichthyology Lab (1)**
Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.

ZOO 5463C   **Herpetology (4)**
Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.

ZOO 5555C   **Marine Animal Ecology (4)**
Investigation of energy flow, biogeochemical cycles, and community structure in marine environments. Lec.-lab.