



USF Graduate Catalog 2020-2021

The policies and procedures herein have been approved, as appropriate, by the USF Graduate Council Policy Committee and by the full USF Graduate Council, a Standing Committee of the Faculty Senate.

The policies, procedures, and requirements herein are applicable to students admitted to a graduate degree program or graduate certificate, 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 Office of Graduate Studies, 4202 E. Fowler Avenue, ALN226
Tampa, FL 33620

www.grad.usf.edu

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This catalog is effective for the 2020-2021 academic year. This catalog includes all policies, procedures, and major and course descriptions in effect at the time of publication. USF reserves the right to repeal, change, or modify the policies, procedures, majors, and course descriptions at any time.

The University of South Florida 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.



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Office of Graduate Studies Mission Statement

The mission of the Office of Graduate Studies is to serve as the center of leadership for graduate education at the University of South Florida.

Office of Graduate Studies Diversity Statement

The Office of Graduate Studies at the University of South Florida is committed to the full engagement, empowerment and encouragement of *all* of the members and constituents we serve; these include students, faculty, staff, academic departments, aspirants, and affiliates.

In recognizing that a university serves a diverse population, we strive not only to serve, but also to lead the future in which we "stimulate, encourage and support graduate education efforts that build national distinction..." We understand that in order to realize this future, we must remain steadfast to the policies and practices that emphasize achievement, equal opportunity, trust, respect, and collaboration. Hence, equity and excellence are not merely espoused, but rather are the "lived" values that we strive for and advocate for members of the community of universities and a global workforce.

USF's Office of Graduate Studies Administration Policy Statement

For information on the University's Policy on the Office of Graduate Studies Administration, Refer to USF Policy 11.001, at <http://regulationspolicies.usf.edu/policies-and-procedures/pdfs/policy-11-001.pdf>

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Archived copies are available online. Paper copies are also archived at the USF Library.



Welcome to Graduate Studies

A Message from the President, Dr. Steven Currall



Thank you for your interest in graduate education at the University of South Florida. We invite you to explore USF's globally recognized academic programs and the many opportunities to learn and work alongside some of the world's most accomplished scholars, scientists and inventors. At USF, our graduate students play active and important roles in our growing national and international research success, and are part of many significant projects that contribute to our rising institutional prestige. We are proud that USF is first in Florida in the percent of bachelor's and graduate degrees awarded in programs of strategic emphasis, including STEM, health, accounting and education. USF also ranks seventh among American public universities and 12th among universities worldwide in generating new U.S. patents.

The continuing growth of our enterprise is among the reasons that the Board of Governors of Florida's State University System designated USF as a Preeminent Public Research University. This means we meet rigorous standards and it confirms our standing as one of the state's top institutions of higher education. Only two other Florida universities have earned this impressive designation – and they are more than 100 years older than we are.

Our strong interdisciplinary academic programs are coupled with a global focus to place USF on the leading edge of a number of disciplines, including health and critically needed science, technology, engineering and math fields. USF's entrepreneurial spirit encourages our graduate students to have an immediate impact with their education. For example, the Student Innovation Incubator in USF's Office of Research & Innovation is home to 24 student-led companies, and graduate students are regularly found leading hands-on projects that directly serve our community, such as environmental research, urban design, music and the arts, and public health. For those looking to link their interest in high-demand disciplines with new skills to start a business, USF has created several programs that couple a Master of Business Administration with STEM degrees.

We offer a variety of opportunities for postgraduate study through our numerous Master's and Graduate Certificate programs, many of which include online learning and are designed to prepare graduates to make immediate and relevant contributions in their professions and fields of study. We work in partnership with our region's top international corporations, including Nielsen, Raymond James, TechData, Jabil Circuit Corp., and Home Shopping Network to connect our talented students to these global powerhouses where they find exciting and rewarding careers.

USF is situated in the heart of one of the nation's fastest growing and most diverse metropolitan regions, and our university is deeply connected to all aspects of the community. USF graduate students are creative, energetic and working to build a bright and successful future for themselves and their families. We look forward to being a partner in your educational, professional and personal journey.

Sincerely yours,

Steven Currall, Ph.D.
President

<https://www.usf.edu/system/president/>

A Message from the Provost and Executive Vice President, Dr. Ralph Wilcox



I want to welcome you to the University of South Florida and your new academic home as you prepare to embark on the challenging, yet ultimately rewarding, journey into graduate education. As a top 50 global research, USF attracts many of the world's best and brightest students, and, today, that includes you.

Graduate school is a serious commitment, and one to which the dedicated faculty and staff at USF attach special importance. It is our sincere promise to engage you in meaningful programs and initiatives that support the educational and socio-economic wellbeing of the local, national, and global communities we serve and prepare you for life-long success in the workforce. We champion interdisciplinary inquiry and collaboration as the keys to success not only within our academic programs, but also in the global landscape of 21st century business, communications, science, and culture.

At USF, we highly encourage students and faculty to forge meaningful relationships that transcend the academic, department-centered experiences found in other graduate schools. We believe that partnerships between students, faculty, and researchers across campus, in the community, and around the world strengthen both the university and the graduate student experience by creating a "collaboration for competition" that leads to new knowledge and exciting, innovative solutions to pervasive and emerging problems.

Continuing to deliver top-quality graduate programs remains a leading priority for USF as we further enhance our position as a premier research university with state, national, and global impact. USF has been designated as a "Preeminent State Research University," an award which recognizes our high performance and trajectory of national excellence.

The University of South Florida is a place where you can challenge yourself by contributing to your chosen discipline, your community, and the world-at-large in a meaningful and sustainable way. Whether you aspire to remain in academe or to pursue professional positions in the public sector, business or industry, I am confident that your investment of time, talent, and energy as a graduate student at USF will present you with wonderful and exhilarating prospects for the future.

Ralph C. Wilcox, Ph.D.
Provost and Executive Vice President
www.acad.usf.edu

A Message from the Dean of the Office of Graduate Studies

It gives me great pleasure to welcome you to the University of South Florida (USF) Graduate Studies Catalog. As you will see, we are a vibrant University providing opportunities for student success and outstanding



achievement (see USF Points of Pride at <https://www.usf.edu/about-usf/points-of-pride.aspx>). USF has over 170 masters and doctoral majors, several concurrent degree options, and over 110 graduate certificates. We also have many opportunities for non-degree seeking students. At the three institutions across the USF System, we serve more than 50,000 students. Of these, over 10,000 are a geographically, demographically, socially, and disciplinarily diverse body of students pursuing their graduate education. USF has student success, research and innovation, community engagement, global literacy and impact, and integrated, interdisciplinary inquiry as its strategic priorities. Our tuition provides affordability and we also offer a number of financial aid options. We recognize that graduate students have an array of responsibilities and needs, so many of our majors offer flexible day, evening, and weekend classes in addition to online course and degree program offerings.

The mission of the Office of Graduate Studies is to serve as the center of leadership for graduate education at the University of South Florida (see our 2019-2020 Annual Report). As a graduate student at the University of South Florida, you can be proud that USF is one of the nation's top public research universities and one of only 40 public research universities nationwide that holds both very high research and community engaged designations by the Carnegie Foundation for the Advancement of Teaching. As well, it has been named as one of three designated Preeminent Universities in the Florida State University System. Graduate students at USF can apply for research, teaching, and graduate assistantships, enhancing their educational experiences by putting knowledge into action. At the same time, a number of our Master's degree programs, as well as Graduate Certificates, offer varied opportunities for professional development and advancement. As a perusal of the Catalog will show, there's something for everyone!

We urge you to become the leader you are destined to be, so I invite each of you to learn more about graduate education at the University of South Florida. Welcome to our community of scholars and family of learners!

M. Dwayne Smith, Ph.D.
Senior Vice Provost & Dean, Office of Graduate Studies
www.grad.usf.edu



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Welcome to the University of South Florida, a Preeminent State Research University, located in the heart of Tampa Bay, the University of South Florida is dedicated to empowering students to maximize their potential for lifelong success.

Our school is situated in the vibrant and diverse Tampa Bay region, with campuses in Tampa, St. Petersburg and Sarasota. Together these campuses serve more than 50,000 students and offer undergraduate, graduate, specialist and doctoral level degrees.

Across our 14 colleges, undergraduates choose from over 180 majors and concentrations, from Business and Engineering to The Arts and USF Health. We are proudly dedicated to empowering our students to prosper and have been recognized nationally for our achievements in closing the gap between white and black student success.

Our graduate programs continue to number among the best, according to the U.S. News and World Report, with eight programs ranking in the top 50 in 2018. We strive to make these stellar programs affordable and offer a number of assistantships, fellowships and grants to help graduate students fund their degrees.

High-impact, global research is central to what we do here at USF. In 2018, our university skyrocketed into the top 25 public universities for research expenditure – and reached 42nd in the nation overall among public and private universities. With a total research expenditure of \$568 million in 2016-2017, USF is at the forefront of cutting-edge research of medicine, science, engineering and the arts.

Established in 1956, we take pride in being a Golden Age university and a leader among young universities. Our youth allows us the flexibility and freedom to forge new paths and foster innovation and progress. Our on-campus Technology Incubator has created over 230 jobs locally, and our Center for Entrepreneurship ranks in the top 15 nationally. We are also leaders internationally, and in 2018 were the number one producer of Fulbright Scholars in the nation, for the second year in a row.

Above all else, our forward-looking, entrepreneurial spirit has helped us cultivate an exceptional environment for our students. In 2018, USF earned the Active Minds Healthy Campus Award, given in recognition of our success prioritizing and promoting the health and well-being of our students. And now home to a chapter of Phi Beta Kappa – the most prestigious national honor organization in the country – USF is poised to help these students unleash their greatest potential.

Our belief that every student will succeed if given the opportunity informs everything we do here at USF. We welcome you to explore more about our university – in person and online – and discover how you can prosper at USF.

USF Vision, Mission, Goals, Values, and, Accreditation

USF Strategic Plan: <https://www.usf.edu/system/about/strategic-plans.aspx>

Mission

Led by outstanding faculty and professional staff, the University of South Florida conducts innovative scholarship, creative activity and basic and translational research, and delivers a world-class educational experience promoting the success of our talented and diverse undergraduate, graduate, and professional students. As a public metropolitan research university, USF, in partnership with our communities, serves the people of Florida, the nation, and the world by fostering intellectual inquiry and outcomes that positively shape the future - regionally, nationally and globally.

Goals

- To promote the lifelong success of well-educated, highly skilled, and adaptable alumnae/alumni who lead enriched lives, are engaged citizens and thrive in a dynamic global market.
- To conduct high-impact research and innovation to advance frontiers of knowledge, solve global problems and improve lives.
- To be a major social and economic engine creating robust global, national and regional partnerships to build a prosperous and sustainable future for our regional communities and the State of Florida.
- To provide a safe, inclusive and vibrant community for learning, discovery, creative activities and transformative experiences enabled through adaptive design of physical, social and digital environments.
- To practice continuous visionary planning and sound management throughout USF to ensure a strong and sustainable financial base, and to adapt proactively to emerging opportunities in a dynamic environment.

Accreditation

The University of South Florida is accredited by the Southern Association of Colleges and Schools' Commission on Colleges to award associate, baccalaureate, master's, specialist and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, or call 404-679-4500 for questions about the accreditation of the University of South Florida.

Normal inquiries about the institution, such as admission requirements, financial aid, educational programs, etc., should be addressed directly to the institution and not to the Commission's Office.

Graduate Degrees Offered by the University

| | |
|------------------------|---------|
| Master of Accountancy | M.Acc. |
| Master of Architecture | M.Arch. |
| Master of Arts | M.A. |



| | |
|---|------------|
| Master of Arts in Teaching | M.A.T. |
| Master of Business Administration | M.B.A. |
| Master of Education | M.Ed. |
| Master of Fine Arts | M.F.A. |
| Master of Health Administration | M.H.A. |
| Master of Music | M.M. |
| Master of Physician Assistant Studies | M.P.A.S. |
| Master of Public Administration | M.P.A. |
| Master of Public Health | M.P.H. |
| Master of Science | M.S. |
| Master of Science in Bioinformatics and Computational Biology | M.S.B.C.B. |
| Master of Science in Biomedical Engineering | M.S.B.E. |
| Master of Science in Biotechnology | M.S.B. |
| Master of Science in Chemical Engineering | M.S.C.H. |
| Master of Science in Civil Engineering | M.S.C.E. |
| Master of Science in Computer Engineering | M.S.C.S. |
| Master of Science in Electrical Engineering | M.S.E.E. |
| Master of Science in Engineering Management | M.S.E.M. |
| Master of Science in Environmental Engineering | M.S.E.V. |
| Master of Science in Health Informatics | M.S.H.I. |
| Master of Science in Industrial Engineering | M.S.I.E. |
| Master of Science in Information Technology | M.S.I.T. |
| Master of Science in Marketing | M.S.M. |
| Master of Science in Materials Science and Engineering | M.S.M.S.E. |
| Master of Science in Mechanical Engineering | M.S.M.E. |
| Master of Science in Medical Sciences | M.S.M.S. |
| Master of Science in Nursing | M.S.N. |



| | |
|---------------------------------------|----------|
| Master of Science in Public Health | M.S.P.H. |
| Master of Social Work | M.S.W. |
| Master of Urban and Community Design | M.U.C.D. |
| Master of Urban and Regional Planning | M.U.R.P. |

Advanced Graduate Degrees

| | |
|-----------------------------------|---------|
| Education Specialist | Ed.S. |
| Doctor of Audiology | Au.D. |
| Doctor of Business Administration | D.B.A. |
| Doctor of Education | Ed.D. |
| Doctor of Philosophy | Ph.D. |
| Doctor of Public Health | Dr.P.H. |
| Doctor of Nursing Practice | D.N.P. |

Professional Degrees

| | |
|----------------------------|----------|
| Doctor of Medicine | M.D. |
| Doctor of Pharmacy | Pharm.D. |
| Doctor of Physical Therapy | D.P.T. |

Additional Accreditation:

| | |
|--------------------------------------|---|
| Muma College of Business | Association to Advance Collegiate Schools of Business (AACSB) |
| College of Education | National Council for Accreditation of Teacher Education (NCATE) |
| College of Engineering | Engineering Accreditation Commission of ABET |
| College of Nursing | Commission on Collegiate Nursing Education (CCNE) |
| College of Public Health | Council on Education in Public Health (CEPH) |
| Lynn Pippenger School of Accountancy | Association to Advance Collegiate Schools of Business (AACSB) |
| School of Art & Art History | National Association of Schools of Art and Design (NASAD) |
| School of Music | National Association of Schools of Music (NASM) |
| School of Social Work | Council on Social Work Education (CSWE) |
| School of Theatre & Dance | National Association of Schools of Theatre (NAST), National Association of Schools of Dance (NASD) |

The University of South Florida and all colleges, departments and degree 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. Advisors, directors, department chairs, and deans are available to help the student understand and arrange to meet these requirements, but the student is responsible for fulfilling them. At the end of a student's course of study, if requirements for graduation have not been satisfied, the degree will not be granted. For this reason, it is important for all students to acquaint themselves with all regulations and to remain currently informed throughout their college careers and to be responsible for completing requirements. Courses, majors, 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 Board of Trustees.





Degrees, Majors, and Concentrations (Authorized)

As of the date of this publication, the University is authorized to offer over 44 different graduate degrees, with graduate majors authorized as follows. [Click here to view the Graduate Majors \(A-Z\)](#) .

| | | | |
|-----|---|-----|---|
| 177 | Total Graduate Majors | 257 | Total Concentrations |
| 119 | Master's | 175 | Concentrations at the Master's Level |
| 2 | Education Specialist | 10 | Concentrations at the Specialist Level |
| 53 | Doctoral (Ph.D., Ed.D., Au.D., D.N.P., D.P.H., D.B.A.) | 70 | Concentrations at the Doctoral Level |
| 3 | Professional Doctoral (including M.D., D.P.T., PharmD.) | 1 | Concentration at the Professional Level |



List of Majors

- Accountancy, M.Acc.
- Advanced Athletic Training, M.S.
- Advertising, M.S.
- Aging Sciences, Ph.D.
- Applied Aging Sciences, M.S.
- Applied Anthropology, M.A.
- Applied Anthropology, Ph.D.
- Applied Behavior Analysis, M.A.
- Applied Behavior Analysis, M.S.
- Applied Behavior Analysis, Ph.D.
- Architecture, M.Arch.
- Art History, M.A.
- Art, M.F.A.
- Athletic Training, M.S.
- Audiology, Au.D.
- Autism Spectrum Disorder and Intellectual Disabilities, M.A.
- Behavioral and Community Sciences, Ph.D.
- Big Data Analytics, Ph.D.
- Bioinformatics and Computational Biology, M.S.B.C.B.
- Biology, M.S.
- Biomedical Engineering, M.S.B.E.
- Biomedical Engineering, Ph.D.
- Biotechnology, M.S.B.
- Business Administration, D.B.A
- Business Administration, M.B.A.
- Business Administration, Ph.D.
- Business Analytics and Information Systems, M.S.
- Cancer Biology, Ph.D.
- Cancer Chemical Biology, Ph.D.
- Cancer Immunology and Immunotherapy, Ph.D.
- Career and Technical Education, M.A.
- Cell and Molecular Biology, Ph.D.
- Chemical Engineering, M.S.Ch.
- Chemical Engineering, Ph.D.
- Chemistry, M.A.
- Chemistry, M.S.
- Chemistry, Ph.D.
- Child and Adolescent Behavioral Health, M.S.
- Civil Engineering, M.S.C.E.
- Civil Engineering, Ph.D.
- Communication Sciences and Disorders, Ph.D.
- Communication, M.A.
- Communication, Ph.D.
- Computer Engineering, M.S.C.P.
- Computer Science and Engineering, Ph.D.



- Computer Science, M.S.C.S.
- Conservation Biology, M.S.
- Counselor Education, M.A.
- Creative Writing, M.F.A.
- Criminal Justice Administration, M.A.
- Criminal Justice, M.A.
- Criminology, M.A.
- Criminology, Ph.D
- Curriculum and Instruction, Ed.S.
- Curriculum and Instruction, M.Ed.
- Curriculum and Instruction, Ph.D.
- Cybercrime, M.S.
- Cybersecurity, M.S.
- Digital Journalism and Design, M.A.
- Economics, M.A.
- Economics, Ph.D.
- Educational Leadership, Ed.S.
- Educational Leadership, M.Ed.
- Educational Leadership, Ph.D.
- Educational Program Development, Ed.D.
- Educational Studies, M.A.
- Electrical Engineering, M.S.E.E.
- Electrical Engineering, Ph.D.
- Elementary Education, M.A.
- Elementary Education, M.A.T.
- Engineering Management, M.S.E.M.
- English, M.A.
- English, Ph.D.
- Entrepreneurship in Applied Technologies, M.S.
- Environmental Engineering, M.S.E.V.
- Environmental Engineering, Ph.D.
- Environmental Science and Policy, M.S.
- Exceptional Student Education, M.A.
- Exceptional Student Education, M.A.T.
- Executive, M.B.A.
- Exercise Science, M.S.
- Finance, M.S.
- Foreign Language Education, M.A.T.
- Foreign Language Education, M.Ed.
- French, M.A.
- Geography and Environmental Science and Policy, Ph.D.
- Geography, M.A.
- Geology, M.S.
- Geology, Ph.D.
- Gerontology, M.A.
- Global Sustainability, M.A.
- Health Administration, M.H.A.
- Health Informatics, M.S.H.I.



- History, M.A.
- History, Ph.D.
- Hospitality Management, M.S.
- Industrial Engineering, M.S.I.E.
- Industrial Engineering, Ph.D.
- Information Technology, M.S.I.T.
- Integrated Mathematical Oncology, Ph.D.
- Integrative Biology, Ph.D.
- Intelligence Studies, M.S.
- Latin American, Caribbean, and Latino Studies, M.A.
- Learning Design and Technology, M.S.
- Liberal Arts, M.A.
- Library and Information Science, M.A.
- Linguistics and Applied Language Studies, Ph.D.
- Linguistics: English as a Second Language, M.A.
- Management, M.S.
- Marine Science, M.S.
- Marine Science, Ph.D.
- Marketing, M.S.M.
- Marriage and Family Therapy, M.S.
- Mass Communications, M.A.
- Materials Science and Engineering, M.S.M.S.E.
- Mathematics Education (6-12), M.A.T.
- Mathematics, M.A.
- Mathematics, Ph.D.
- Mechanical Engineering, M.S.M.E.
- Mechanical Engineering, Ph. D.
- Medical Sciences, M.S.M.S.
- Medical Sciences, Ph.D.
- Medicine, M.D.
- Microbiology, M.S.
- Middle Grades Mathematics (5-9), M.A.T.
- Middle Grades STEM Education, M.S.
- Music Education, M.A.
- Music, M.M.
- Music, Ph.D.
- Nurse Anesthesia, D.N.P.
- Nursing (BSN to MSN), M.S.N.
- Nursing (RN to MSN), M.S.N.
- Nursing Science, Ph.D.
- Nursing, D.N.P.
- Pharmaceutical Nanotechnology, M.S.
- Pharmacy, Pharm.D.
- Philosophy, M.A.
- Philosophy, Ph.D.
- Physical Education, M.A.
- Physical Therapy, D.P.T.
- Physician Assistant Studies, M.P.A.S.



- Physics (Applied Physics), Ph.D.
- Physics, M.S.
- Political Science, M.A.
- Politics and International Affairs, Ph.D.
- Psychological Sciences, M.A.
- Psychology, Ph.D.
- Psychology, M.A.
- Public Administration, M.P.A.
- Public Health, Dr.P.H.
- Public Health, M.P.H.
- Public Health, M.S.P.H.
- Public Health, Ph.D.
- Reading Education, M.A.
- Rehabilitation and Mental Health Counseling (Post-Bacc), M.A.
- Religious Studies, M.A.
- School Psychology, M.A.
- School Psychology, Ph.D.
- Science Education, M.A.T.
- Secondary English Education, M.A.
- Secondary English Education, M.A.T.
- Social Science Education, M.A.T.
- Social Work, M.S.W.
- Social Work, Ph.D.
- Sociology, M.A.
- Sociology, Ph.D.
- Spanish, M.A.
- Special Education, Gifted, M.A.
- Speech-Language Pathology (Post-Bacc), M.S.
- Sport and Entertainment Management, M.S.
- Statistics, M.A.
- Supply Chain Management, M.S.
- Technology in Education and Second Language Acquisition (TESLA), Ph.D.
- Urban and Community Design, M.U.C.D.
- Urban and Regional Planning, M.U.R.P.
- Women's and Gender Studies, M.A.



University Administration

The University of South Florida is a member of the State University System (SUS) of Florida and is governed by the Florida Board of Governors and the University Board of Trustees.

Florida Board of Governors

For a current list of the Board of Governors (BOG), please refer to their website: <http://www.flbog.org/>

University Board of Trustees

The USF Board of Trustees is the public body corporate of the university. It sets cost-effective policy for the institution and serves as the legal owner and governing board. The Board of Trustees is responsible for high quality education programs within the laws of the State of Florida and regulations of the Florida Board of Governors. It holds the institution's resources in trust and is responsible for their efficient and effective use as per Florida Statute 1.001 University Board of Trustees Powers and Duties.

The Board of Trustees is comprised of thirteen members, six whom are appointed by the Florida Governor and five whom are appointed by the Florida Board of Governors and confirmed by the Florida Senate for a term of five years. The elected Faculty Senate President and Student Government President also serve as trustees.

Information about each Trustee is available online at: <https://www.usf.edu/board-of-trustees/about/trustees.aspx>

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Stefanie E. Goforth, Vice Chair
Sandra Callahan

Mike Carrere

Michael E. Griffin

Oscar Horton

Deanna Michael
Claire Mitchell

Leslie Muma

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Byron E. Shinn

Charles Tokarz
Nancy H. Watkins

USF President

Steven Currall, Ph.D.

USF Provost and Executive Vice President

Ralph Wilcox, Ph.D.

Regional Chancellors

Martin Tadlock (St. Petersburg)

Karen Holbrook (Sarasota-Manatee)



Office of Graduate Studies Administration

Reference *USF Policy 11-001* - <https://usf.app.box.com/v/usfpolicy11-001>

Sr. Vice Provost and Dean, Office of Graduate Studies

Dwayne Smith, Ph.D.

Associate Dean, Office of Graduate Studies

Ruth Bahr, Ph.D.

Campus Assistant Dean, St. Petersburg Campus

Donna Knudsen, Ph.D.

Campus Assistant Dean, Sarasota-Manatee Campus

Sandra Stone, Ph.D.

USF Graduate Liaisons

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USF

Ruth Bahr, Ph.D.

USF - St. Petersburg campus

Martin Tadlock, Ph.D.

USF - St. Petersburg campus

Donna Knudsen, Ph.D.

USF - Sarasota-Manatee campus

Karen Holbrook, Ph.D.

USF - Sarasota-Manatee campus

Sandra Stone, Ph.D.

USF Health

Charles J. Lockwood, M.D., MHCM

College Deans

College of Arts and Sciences

Eric Eisenberg, Ph.D.

Julianne Serovich, Ph.D.

Julianne Serovich, Ph.D.

Muma College of Business

Moez Limayem, Ph.D.

College of Education

Judith Ponticell, Ph.D., Interim

College of Engineering

Robert Bishop, Ph.D., P.E.

College of Global Sustainability

Govindan Parayil, Ph.D.

College of Graduate Studies

Dwayne Smith, Ph.D.

College of Marine Science

Thomas K. Frazer, Ph.D.

Morsani College of Medicine

Charles J. Lockwood, MD, MHCM

Taneja College of Pharmacy

Kevin Sneed, Ph.D.

College of Nursing

Usha Menon, Ph.D., RN, FAAN - Interim



College of Public Health

Donna Petersen, Ph.D.

College of The Arts

Chris Garvin, M.F.A.

Judy Genshaft Honors College

Charles Adams, Ph.D.

Library

Todd Chavez, M.A.

Undergraduate Studies

Allison Crume, Ph.D.

College Graduate Associate Deans (EGAD)

- <http://www.grad.usf.edu/graduate-coordinators.php>

Sanjukta Bhanja, Ph.D.

David Naar, Ph.D.

College of Arts and Sciences

Bob Potter, Ph.D.

College of Behavioral and Community Sciences

Jennifer Lister, Ph.D.

Muma College of Business

Jackie Reck, Ph.D.

College of Education

Ann Cranston-Gingras, Ph.D.

College of Engineering

Sanjukta Bhanja, Ph.D.

College of Global Sustainability

TBA

College of Graduate Studies

Ruth Bahr, Ph.D.

College of Marine Science

David Naar, Ph.D.

Morsani College of Medicine

Tricia Penniecook, Ph.D.

Michael Barber, D.Phil.

Laura Swisher, Ph.D.

College of Nursing

Catherine Gaines Ling, Ph.D.

Theresa Beckie, Ph.D.

Taneja College of Pharmacy

Shyam Mohapatra

College of Public Health

Janice Zgibor, Ph.D.

College of The Arts

Barton Lee

USF Graduate Council



For the most current list members, please refer to the website: <https://www.usf.edu/graduate-studies/faculty-and-staff/graduate-council/index.aspx>

College of Arts and Sciences (4)
College of Arts and Sciences
College of Arts and Sciences
College of Arts and Sciences
College of Behavioral and Community Sciences (2)
College of Behavioral and Community Sciences
Muma College of Business (2)
Muma College of Business
College of Education (2)
College of Education
College of Engineering (2)
College of Engineering
College of Marine Science (2)
College of Marine Science
Morsani College of Medicine (3)
Morsani College of Medicine
Morsani College of Medicine
College of Nursing (2)
College of Nursing

Taneja College of Pharmacy (2)

Taneja College of Pharmacy
College of Public Health (2)
College of Public Health
College of The Arts (2)
College of The Arts
Libraries (1)

Gary Daughdrill
Rocco Malservisi
TBA
TBA
Amy Davis
Ray Miltenberger, Council Chair
Robert Hooker
Shivendu Shivendu
TBA
TBA
Yun Sun
Mahshid Rahnamay Naeini
Pamela Hallock Muller
Brad Seibel
Vrushank Dave, Vice-Chair
Ingrid Bahner, Policy Chair
TBA
Marcia Johansson, Curriculum Chair
Harleah Buck

Manas Biswal

Sheeba Varghese Gupta
Janice Zgibor
TBA
TBA
TBA
TBA

USF Locations

University of South Florida
4202 E. Fowler Avenue
Tampa, FL 33620
(813) 974-2011
Website: www.usf.edu

University of South Florida
5700 N. Tamiami Trail
Sarasota, FL 34243-2197
(941) 359-4200
Website: <http://usfsm.edu/>

University of South Florida
140 Seventh Avenue S.
St. Petersburg, FL 33701
(727) 87-1142
Website: www.usfsp.edu



Office of Graduate Studies Directory

4202 E. Fowler Ave., ALN226, Tampa, FL 33620

813-974-2846 (Main line)

www.grad.usf.edu

Senior Administration

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Ruth Bahr, Ph.D., Associate Dean

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Staff

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TBA, Administrative Specialist

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Student Affairs

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Office of Postdoctoral Affairs (OPA)

Kiri Kirkpatrick, Ph.D., Associate Director of Postdoctoral Affairs and Graduate Student Development (813) 974-0795 kiri@usf.edu

Brandis Baines-Waiz., Academic Program Specialist (813) 974-3655 bwaiz@usf.edu

Graduate and Professional Student Council (813) 974-2846 gpssc@grad.usf.edu

Office of Admissions - Graduate Admissions (813) 974-3350 admissions@usf.edu

St. Petersburg Campus Office

140 7th Avenue South, PNM 102, St. Petersburg, FL 33701 (727) 873-4567 (Main Line) usfsp-gradstudies@usf.edu

Donna Knudsen, Campus Assistant Dean knudsen@usf.edu

Lisa Akins, Office Manager (727) 873-4884 akinsl@usf.edu

Mike Slatterly, Assistant Director (727) 873-4479 mslatter@usf.edu

Marketa Teal, College of Arts and Sciences Recruiter (727) 873-4770 mteal@usf.edu

Karen Callahan, College of Education Recruiter (727) 873-4219 kecallah@usf.edu

Nicki Hannum, Admissions Evaluator (727) 873-4283 nickih@usf.edu

Sarasota Campus Office

5700 N. Tamiami Trail, Sarasota, FL 34243-2197 sandrastone@usf.edu

Sandra Stone, Campus Assistant Dean



Academic Calendar

Helpful Links:

- Academic Calendar: <https://www.usf.edu/registrar/calendars/>
- Thesis/Dissertation Deadlines: http://www.grad.usf.edu/ETD_Deadlines.php
- Cultural/Diversity Events: <http://www.usf.edu/diversity/about-dieo/upcoming-events.aspx>
- Attendance Policy for the Observance of Religious Days - Ref USF 10-045 - <https://usfweb.usf.edu/generalcounsel/view/policy>

NOTE: Dates and times listed below are subject to change. For current information, refer to: <https://www.usf.edu/registrar/calendars/>

| | |
|--------------------|---|
| Summer 2020 | |
| May 18 | First day of classes for Summer Sessions A&C |
| May 22 | Last day to Drop/Add or late Register |
| May 25 | Memorial Day Holiday; no classes and USF offices closed |
| May 28 | Last day to pay fees |
| June 6 | Last day to withdraw ("W") from Summer Session A without academic penalty |
| June 26 | Summer Session A classes End |
| June 27 | Last day to withdraw ("W") from Summer Session C without academic penalty |
| June 29 | Summer Session B first day of classes |
| July 3 | Independence Holiday (observed); No classes and USF offices closed |
| July 24 | Summer Session C classes end |
| July 24 | Summer Session B last day to withdraw; no refund and no academic penalty |
| August 7 | Summer Session B classes end |
| FALL 2020 | |
| August 24 | First Day of Classes |
| August 28 | Last day to Drop/Add or late register |
| August 28 | Last day to pay fees |
| September 7 | Labor Day HOLIDAY - No classes and USF offices closed |
| October 31 | Fall last day to withdraw; no refund and no academic penalty (tentative) |
| November 11 | Veteran's Day HOLIDAY; no classes and USF offices closed |



| | |
|--------------------------|---|
| November 25 | Last day of classes on Campus |
| November 26 & 27 | Thanksgiving HOLIDAY; no classes and USF offices closed |
| November 30 - December 4 | Classes Only Online |
| December 4 | Fall classes end |
| December 5-10 | Final Exams week (online only) |
| December 10 | End of Fall Semester |
| | |
| Spring 2021 | |
| January 1 | New Year's HOLIDAY; no classes and USF offices closed |
| January 11 | Spring classes begin |
| January 15 | Last day to Drop/Add or late register |
| January 15 | Last day to pay fees |
| January 18 | Dr. Martin Luther King Jr. HOLIDAY; no classes and USF offices closed |
| March 15-20 | Spring Break |
| March 27 | Spring last day to withdraw; no refund and no academic penalty |
| April 30 | Spring last day of classes |
| May 1-6 | Final Exam Week |
| May 6 | Spring end of term |
| Summer 2021 | |
| May 17 | First day of classes for Summer Sessions A&C |
| May 21 | Last day to Drop/Add or late register for sessions A&C |
| May 21 | Last day to pay fees |
| May 31 | Memorial Day HOLIDAY; no classes and USF offices closed |
| June 5 | Last day to withdraw from session A; no refunds no academic penalty |
| June 25 | Summer Session A classes end |
| June 26 | Last day to withdraw from session C; no refunds, no academic penalty |



| | |
|----------|---|
| June 28 | Summer Session B first day of classes |
| July 2 | Last day to drop/add Summer Session B |
| July 2 | Last day to pay fees Summer Session B |
| July 5 | Independence Day HOLIDAY; no classes and USF offices closed |
| July 23 | Summer Session C classes end |
| July 23 | Last day to withdraw from Session B; no refund, no academic penalty |
| August 6 | Summer Session B classes end |



Graduate Faculty

The University of South Florida 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 Definition

Graduate Faculty is defined to consist of all tenure-track or tenured faculty appointed at the Assistant, Associate, or Professor rank, who holds 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. To chair a doctoral level committee, a Graduate Faculty member must engage in current and sustained scholarly, creative, or research activities, such as publications, performances, exhibitions, patents, inventions and research grants.

Affiliate Graduate Faculty membership may be granted by the Office of Graduate Studies Dean to individuals who do not meet the University definition of Graduate Faculty, but 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 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.

Affiliate Graduate Faculty can only serve as the Instructor of Record when they have a terminal degree in the discipline and are approved to teach graduate courses in that field. Emeritus Professors and retired or recently resigned professors may also be appointed as Affiliate Graduate Faculty with the approval of the College and Office of Graduate Studies Dean. For approval, a current CV and request for approval, including the reason for the request (e.g. serving on a master's student supervisory committee), is submitted through the Major, the College, and the Office of Graduate Studies. For procedures, contact the Office of Graduate Studies.

Graduate Faculty Approval – 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.

List of Graduate Faculty

References:

SACSCOC Comprehensive Standard 3.7.1, <https://sacscoc.org/app/uploads/2019/07/faculty-credentials.pdf> for specific information and requirements in reference to the teaching of graduate courses.

Also, note, per USF Policy 10-115 – Faculty Credentials for Teaching Undergraduate and Graduate Courses - <https://usf.app.box.com/v/usfpolicy10-115>



Admissions

University of South Florida

Office of Admissions
4202 East Fowler Avenue, SVC1036
Tampa, FL 33620-5816

Website: <http://www.usf.edu/admissions/graduate/index.aspx>

E-mail: GradAdmissions@usf.edu

Phone: 813-974-3350

Fax: 813-974-9689

Dean of Admissions Glen Besterfield

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>

E-mail: applygrad@usfsp.edu

Phone: (727) 873-4567

Fax: (727) 873-4889

Assistant Director: Michael Slattery

Admissions Evaluator: Nicki Hannum

University of South Florida Sarasota-Manatee

Graduate Admissions
SMC C107

Website: <http://usfsm.edu/>

Email: admissions@sar.usf.edu

Phone: 941-359-4330

Fax: 941-359-4236

University Admissions Criteria and Policies

Also see USF Regulation 3-008: Admission of graduate and post-baccalaureate professional students:
<https://usf.app.box.com/v/usfregulation3008>

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 department/school to select admissions criteria for the major best predict success in their specific field and to determine the weight given to each



measure. Graduate departments 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/school/college with its pool of applicants.

Admission Requirements

Each applicant to a graduate degree program at the University of South Florida is required to meet the following minimum requirements. Each College or Program may consider the rigor and strength of the academic program in making admissions decisions. Graduate programs often require additional information and supporting documents. Applicants should consult with the desired program of interest for additional requirements:

1. An applicant must have **one** of the following (a, b, or c):
 - a. A bachelor's degree 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 toward a baccalaureate 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 and a previous graduate degree with a "B" average or better. 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. Refer to individual major admission requirements for information.

English Proficiency for International Applicants*

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

The Department Chair/Graduate Director and/or 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 (GAR) 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 published 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/School or College review your application for admission to graduate study at USF. Once the Graduate Department/School/College determines an applicant's eligibility for its graduate major they will forward a recommendation to the Graduate Admissions Office who will issue the official decision.

If you are a foreign graduate applicant, the International Services Office (<http://global.usf.edu/is/>) (in collaboration with the Global Engagement Office, if appropriate) 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 an admissions 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 |
|--|-----------------------------|-------------------------------|-------------------------------|
| <ul style="list-style-type: none"> 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. <p>Check with the Graduate Major Director for availability or to discuss options for admission in a subsequent term.</p> | | | |
| 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 |

| DOCTORATE DEGREES | Admission for Fall Semester | Admission for Spring Semester | Admission for Summer Semester |
|--|-----------------------------|-------------------------------|-------------------------------|
| <ul style="list-style-type: none"> 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. <p>Check with the Graduate Major Director for availability or to discuss options for admission in a subsequent term.</p> | | | |
| Priority Deadline (for funding and consideration) | Refer to Specific Major | Refer to Specific Major | Refer to Specific Major |
| Final University Deadline Domestic Applicants | February 15 | October 15 | February 15 |
| Final University Deadline International Applicants | February 15 | 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. Therefore, 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. The applicants 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, please utilize the following Application Checklist. 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. Complete 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 non-refundable 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
8. Sign-in to OASIS to monitor your admission status

1. Graduate Application:

Graduate applications and all supporting documents are submitted online through <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. Applicants 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 <https://usf.app.box.com/v/usfregulation40107>. An applicant who attended USF as a former degree seeking student or non-degree student 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), or 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 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 - <https://usf.app.box.com/v/usfpolicy10-044>). 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 because it is already on file. However, they must list USF as a post-secondary institution on the application.

Applicants should upload copies of all transcripts through the on-line application to expedite the processing of their applications. These uploaded transcripts are considered unofficial. These unofficial copies of transcripts expedite the processing of the applications. 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 from the institution previously 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 all foreign post-secondary transcripts translated and evaluated* before submitting them as part of the graduate application packet. If the student is applying while still completing an undergraduate degree, the applicant must submit transcripts of at least six (6) semesters of completed undergraduate work. Final transcripts showing the award of a bachelor's degree will be required if an applicant is admitted and enrolls.

*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 educational affiliation to the institution of higher learning will **not** be accepted. In addition to an overall evaluation from a foreign transcript evaluation service, the institution and/or graduate major may request a **course-by-course** evaluation. Refer to the Graduate Admissions' website for a list of evaluation services (<https://www.usf.edu/admissions/graduate/index.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>

If standardized test scores are a requirement of admission to a graduate program, only scores of tests taken within five (5) years of the desired term of entry will be accepted. Some majors will waive the standardized test requirement if another measure can be used to determine the potential for success in the major. Official scores must be submitted to USF directly from the Educational Testing Service. However, applicants should provide unofficial copies of their test scores to expedite the processing of their applications while awaiting the transmission of official scores. Any offer of admission granted using 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 and may be waived at the discretion of the departmental/school/college admissions committee. Please contact your major of interest directly for additional information.*

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 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-M4-23 Ph.D. in Business Administration | VP9-M4-67 M.A. in Economics |
| VP9-M4-04 Executive M.B.A. | VP9-M4-86 M.S. in Finance |
| X9R-MQ-41 Hospitality Management, USF-SM | VP9-M4-17 M.S. in Management |
| VP9-M4-97 M.B.A., Full Time | VP9-M4-66 M.S. in Management Info. Systems |
| VP9-M4-80 M.B.A., Part Time | VP9-M4-40 M.S.M. in Marketing |
| X9R-MQ-01 M.B.A., USFSM | VP9-M4-48 M.S. in Entrepreneur in Applied Tech. |
| VP9-M4-25 M.B.A., USF St. Petersburg | VP9-4J-76 Health Admin., College of Public Health |
| VP9-M4-18 Masters in Accountancy | |

** Applicants may not be required to submit a GMAT score to the MBA program if they have taken the GRE. Applicants should contact the Department of interest directly for additional information.

MCAT

For 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 or Department for specific requirements

English Proficiency for International Applicants*

Applicants from countries where English is not the official language must also 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/B2 First) | 176 or higher (with minimum sub scores of 169) |
| e. Cambridge English Level 1 Advanced/Business (C1) | 180 or higher |
| f. Cambridge English Level 2 Proficiency/Business (C2) | 200 or higher |



| | |
|---|---------------|
| g. Pearson Test of English Academic (PTE-A) | 53 or higher |
| h. Graduate Record Exam (GRE) Exam Verbal Score | 153 or higher |
| i. Graduate Management Admission Test (GMAT) Verbal | 30 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 from an institution in the United States that is accredited by either the Higher Learning Commission, the Middle States Commission on Higher Education, the New England Commission of Higher Education, the Northwest Commission on Colleges and Universities, the Southern Association of Colleges and Schools Commission on Colleges, or the WASC Senior College and University Commission.
- 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 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 on 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. Also refer to USF Policy 30-018: Admission of Students with Prior Conduct Issues.

6. Florida Residency Policy: Residency for tuition purposes is defined by Florida State Statute Section 1009.21. 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. Applicants who submit incomplete or unsigned forms will be classified as non-Florida residents. The Office of Admissions will classify



applicants as Florida residents if they have provided a minimum of two forms of acceptable documentation that verifies they began living in Florida at least twelve (12) months prior to the first day of classes of their admitted term of entry. Additional documentation may be requested in some cases. All documentation is subject to verification. For assistance with residency questions contact gradadmissions@usf.edu

Applicants 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 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 by submitting 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 on Residency refer to: <https://www.usf.edu/registrar/services/residency/>

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 Admissions will not release an applicant's file 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. Once admitted and enrolled students 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.

Graduate application files may be copied and released to USF staff conducting legitimate University business.

Additional Application Requirements (Not applicable to all majors)

Many graduate majors require additional application materials such as resumes, writing samples, or letters of recommendation. These items should be uploaded through the online application. These materials will be available electronically to the appropriate major if sent with the application packet.

Final Admission Classification

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

Provisional Admission Classification

Applicants accepted for admission whose official documents (e.g. transcripts and/or test scores) have not been received by the Office of Admissions are admitted provisionally pending receipt of these missing items. Official transcripts documenting that the required degree was completed 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 Admissions will place a registration hold on the student's file pending receipt of the missing items.

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

An Admissions Committee may admit students conditionally in anticipation of the applicant's successful completion of prescribed additional admission requirements. Conditions may include receipt of satisfactory scores on standardized tests, attendance in and satisfactory grades earned in specific core or remedial courses, etc. It is the responsibility of the department/school/college to track satisfactory completion of the conditions and notify Admissions when conditions are met. Failure to satisfy those conditions by the deadline established by the major will result in a registration hold and possible academic dismissal from the Major.

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 in the semester of initial acceptance. Applicants who fail to 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 acceptance term. If a request for Deferment of Admission is not activated within 12 months, a new application and fee must be submitted.

Applicants who were admitted provisionally pending receipt of official test scores and/or transcripts must supply those missing items prior to having their deferment decision processed by the Office of Admissions.

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 two (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.

Note: applicants unable to matriculate in the semester of the accepted admission may request a deferment of their admission to the following semester. Applicants in need of requesting this type of deferment should contact their Department for approval and advising. Priority admission deadlines and the semesters that applications may be submitted are listed on the website: http://www.grad.usf.edu/programs/search_all.php

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 Admissions update the application and specify the desired term of enrollment. Applications are held for only twelve (12) months. An update must be requested in writing within twelve (12) months of the initial term requested, otherwise, a new application and fee must be submitted. The Office of 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 in writing. Denied applicants who meet the minimum standards may request reconsideration in writing to the Graduate Director of the Major to which they applied within 30 days of the date of denial. The Appeal for Reconsideration request should present additional evidence of potential for academic success at USF. Applicants denied



admission to a major are eligible to apply as a non-degree seeking student, although course selection restrictions may apply. Applicants must submit a non-degree seeking student applications and fee 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. Refer to the Deferment of Admission section for more information.

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 non-degree seeking (i.e. inactive) status (refer to the Continuous Enrollment Policy for more information). Students must be reinstated or re-admitted to the major to continue their studies. 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

Students who have not exceeded their time limit for degree completion may apply for reinstatement, using the Graduate Major Reinstatement Form. A Program of Study, including benchmark information, must be submitted with the request.

- 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 were in Doctoral Candidacy will remain at that status.
- 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.

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. Students who have been Academically Dismissed from the University for academic dishonesty may not apply to any graduate program at USF.

Additional Requirements for Readmission

- **Graduate Application:** in order to be considered for readmission, 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.
- **Test Scores:** The College may require new test scores (GRE/GMAT/TOEFL) and transcripts.
- **Catalog Year:** Students who are readmitted must meet the admission standards, 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/School/College. Refer to the Course Currency Policy for time limits on coursework applied toward the degree and the Transfer of Credit Policy. Students may be required to take new coursework. The decision to accept courses previously transferred to USF and applied toward the degree is at the discretion of the Department/School/College.
- **Enrollment:** A decision to readmit is only applicable to the semester for which it is effective. Students who do not enroll for that term will have to resubmit an application for any future semester. The readmission policy does NOT apply to inactive students wishing to enroll in a Major other than the original admitting Major. These students must submit an application for the new major of interest. Transcripts of any work completed while not attending a USF Institution may be required.
- **Doctoral Candidacy:** Students who are readmitted to a doctoral major who were previously admitted to doctoral candidacy must retake the Qualifying Exam and be admitted to Doctoral Candidacy.

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 previous major (Refer to the USF Policy on Academic Renewal in the Academic Policies 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 complete 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 Form at <https://www.usf.edu/graduate-studies/students/forms.aspx>. Students must consult with the new major and Office of Graduate Studies before completing any paperwork.

Student Accessibility Services

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, must request consideration during the admissions process. Supporting documentation must be submitted when requesting a disability exception. Applicants requesting substitution of departmental/program guidelines will need to contact the appropriate department chairperson/graduate advisor.

The University reviews documentation and determines if students are eligible for services and accommodations because of disabilities. The Office of Student Accessibility 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 Accessibility Services to request services and accommodations in writing. Any faculty members or students who have questions about this process are encouraged to contact the Office of Student Accessibility Services at (813) 974-4309 or visit the website at www.usf.edu/SAS



Tampa: (813) 974-4309 or visit www.usf.edu/SAS

St. Petersburg: (727) 873-4990, (727) 987-4837 or <https://www.usfsp.edu/student-disability-services/student-services/>

Sarasota: Office is located in the Student Services Center with Financial Aid, Registration, Admissions, and Advising. Or visit: <https://www.usfsm.edu/campus-life/campus-resources/accessibility-services/index.aspx>



General Information

Parking Information and Campus Maps

For information on USF Parking Services, policies, and regulations, refer to:

USF/USFSP/USFSM Parking and Transportation Services websites:

Tampa: <http://www.usf.edu/administrative-services/parking/>

St. Petersburg: <https://www.usfsp.edu/administrative-and-financial-services-parking-transportation/>

Sarasota/Manatee: <http://sar.usfsm.edu/parking>

Campus maps available:

Tampa: <http://www.usf.edu/administrative-services/parking/maps/index.aspx>

St. Petersburg: <http://www.usf.edu/administrative-services/parking/maps/index.aspx>

Sarasota-Manatee: <https://usf.app.box.com/s/qxwpcp3hufhahsw3gtojhkhunrwignr4>

USF Regulations:

USF 4.0010 Parking General Guidelines, Registration, Penalties and Rates: <https://usf.app.box.com/v/usfregulation40010>

Also reference 4.00211 through 4-00219 and 4-0023 through 4-0029, FAC, available at: <http://regulationspolicies.usf.edu/regulations/>

Tampa Office of the Registrar

Website: <http://www.registrar.usf.edu/>

E-mail: asktheregistrar@usf.edu

Phone: 813-974-2000

TTY: 813-974-4488

St. Petersburg Office of Records and Registration

Website: <http://www.usfsp.edu/registrar/>

Phone: (727) 873-4645

Fax: (727) USF-4FAX

Sarasota-Manatee Office of Records and Registration

Website: <http://www.usfsm.edu/students/registration/index.aspx>

Phone: (941) 359-4330

Fax: (941) 359-4236

The respective offices maintain the official academic records for all students and course registrations for currently enrolled students. Students are encouraged to contact the office about general questions concerning academic policies and procedures of their current registration or academic record. Note: Each student must be aware of the University's academic policies and procedures insofar as 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
- register and drop/add courses
- view their grades
- request address changes
- request privacy
- request transcripts
- view financial aid information
- view and pay bills online
- apply to graduate

Registration Information

USF Regulation USF4-0101, <https://usf.app.box.com/v/usfregulation40101>

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 Resource menu. Current course offerings and registration requirements are listed in the Schedule of Classes. Note that some courses may require permits from the department/school for registration.

OASIS: <https://www.usf.edu/registrar/register/> / <http://usfonline.admin.usf.edu>

Schedule: <http://www.registrar.usf.edu/ssearch/search.php>

St. Petersburg: <http://www.usfsp.edu/register/>

Sarasota registrar: <http://www.usfsm.edu/students/registration/index.aspx>

Late Registration

Degree-seeking students who do not register prior to the first day of classes may late-register the first week of classes. A late registration fee is charged during this week. To avoid cancellation 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 end of 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 sections of the Catalog.

Medical Requirements for Registration

Immunization Policy: University Immunization Policy, USF Regulation 33-002: <https://usf.app.box.com/v/usfpolicy33-002>

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

According to Florida Administrative Code Rule 6C-6.001(5) "Each student accepted for admissions 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).

In addition, 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 has been taken. (Reference USF Policy 33.003 - <https://usf.app.box.com/v/usfpolicy33-002>)

All students new to USF are required to submit a signed copy of the official USF Medical History form and submit immunization 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 1st birthday) OR Titer (lab work) Date & Result
3. Hepatitis B-1: Vaccination OR Check the declination box OR Titer (lab work) Date & 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.

Forms may be downloaded and printed from the Student Health Services Forms website: <https://www.usf.edu/student-affairs/student-health-services/immunizations/>. In order to register, this form, including the required documentation, must be completed, signed, and returned to:

Tampa:

Student Health Services
University of South Florida
4202 East Fowler Avenue, SHS 100
Tampa, FL 33620-6750
Fax: (813) 974-5888
Telephone: (813) 974-4056

St. Petersburg:

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

Sarasota:

All immunization documentation is process through Office of Admissions on Tampa and St. Petersburg campuses.

Administrative Holds



A student may be placed on administrative hold for failure to meet obligations to the University. When a student is placed on 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 University Cashier's Office. Each student placed on administrative hold should determine from the registrar's office which office placed him/her on hold and clear the obligation with that respective office. Information for how to remove a hold is online at <https://www.usf.edu/student-affairs/student-health-services/holds/>. For holds due to immunization requirements, go to: <http://www.usf.edu/student-affairs/student-health-services/immunizations/immunhold.aspx>

Cancellation of Registration for Non-Payment

USF Regulation USF4.010, <https://usf.app.box.com/v/usfregulation4010>

Equal Opportunity Policy

Equal Opportunity Policy Diversity and Equal Opportunity: Discrimination and Harassment Policy:

<https://usf.app.box.com/v/usfpolicy0-007>

DEO website: <http://usfweb2.usf.edu/eoa/>

Phone: 813-974-4373

The University of South Florida is a diverse community that values and expects respect and fair treatment of all people. USF 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 or age, as provided by law.

USF protects its faculty, staff, and students from discrimination and harassment based on sexual orientation, as well as gender orientation and express. USF is also committed to the employment and advancement of qualified veterans with disabilities and veterans of the Vietnam era through the VEteran's 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 must be filed with the Diversity and Equal Opportunity Office ("DEO") or the Office of Student Conduct and Ethical Development (SCED) or the appropriate student affairs office at the campus 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 University. 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 for 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 on any campus or by contacting

Tampa:

Allen Building, ALN 172 or by calling 813-974-4373 or 813-974-1510 (TDD).

St. Petersburg:

Human Resources, BAY 206, or by calling 727-873-4105

Sarasota-Manatee:

C107 or by calling 941-359-4562



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

Tampa: SVC 2057
(813) 974-0835
<http://www.usf.edu/student-affairs/ombuds/>

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

Sarasota-Manatee
SMC C312
(941) 359-4414
afarrington@sar.usf.edu

The Ombuds Offices at USF are confidential, impartial, independent and informal resource for students who wish to convey their experiences at USF to explore alternatives for resolving problems or complaints through informal means. The mission of the Ombuds Office is to facilitate fair and equitable resolution processes that promote student success. The Ombuds Offices are not official offices of notice for the University of South Florida. Rather, the Student Ombuds, as a neutral facilitators, will listen to concerns and help students develop a range of options in an informal attempt to achieve resolution. The Ombuds may also refer students to appropriate individuals and offices and to clarify University policies and procedures. All information disclosed in the Ombuds Offices will be held confidential unless otherwise authorized by the student or otherwise required by applicable law, including Chapter 119, Florida Statutes.

Center for Victim Advocacy and Violence Protection

The Center for Victim Advocacy & Violence Prevention (part of the Division of Student Affairs) provides free and confidential services to students, faculty, and staff of all gender identities who have experienced crime, violence, or abuse for incidents occurring on or off campus, recently or in the past. Services are provided by professional Victims Services Practitioners and may include: crisis intervention, emotional support, personal and systems advocacy, court accompaniment, victim helpline, safety planning, and assistance filing for injunctions (protective orders) and crime victim's compensation claims. We also provide prevention and education presentations, programs and events.

Appointments are available in our office or other safe locations on campus. Walk-ins are welcome, Monday – Friday, 8:00 a.m. to 5:00 p.m. After hours, weekends and holidays, an advocate is available for victims of violent crimes through the Victim Helpline.

Important Contact Information:

Tampa:

Victim Helpline: (813) 974-5757
Office: (813) 974-5756
Student Services Building (SVC) 0067
www.sa.usf.edu/advocacy/

St. Petersburg:



Student Life Center: (727) 873-4422
After hours (727) 873-4422
<https://www.usfsp.edu/wellness/about-us/>

Sarasota-Manatee:

New College of Florida Counseling & Wellness Center
(941) 487-4254
5800 Bay Shore Road, CWC 120
Sarasota, FL 34243
<https://www.ncf.edu/cwc/>

Student Accessibility 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 provides reasonable classroom accommodations for otherwise qualified students who have documented disabilities. Students seeking accommodations must register with the Student Accessibility Services Office. See <http://www.usf.edu/student-affairs/student-disabilities-services/>; <https://www.usfsp.edu/disability/>; <http://www.usfsm.edu/campus-life/campus-resources/disability-services/index.aspx>; for a list of common accommodations and more information on the accommodations process. Admissions: Students with disabilities apply under the same guidelines as all students through the Office of Admissions.

Course Substitution: Students with disabilities requesting substitution of coursework for General Education, or Foreign language requirements should contact Students Accessibility Services on the USF campus where the course is being taught. Students with declared majors requesting substitution of departmental graduation requirements will need to contact the chair of their department. In either case, students will be requested to submit documentation to SDS to support their request for an exception.

Parking: Students with state parking privileges need only supply their state card as documentation for eligibility to Parking and Transportation Services. Students without state privileges need medical documentation to be considered for on-campus parking. For more information: <http://www.usf.edu/administrative-services/parking/> Housing: Accessible on-campus residence hall housing is available for students with special needs. Specific information is available through Housing and Residential Education. For more information: <http://www.usf.edu/student-affairs/housing/>

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

Diversity Inclusion and Equal Opportunity

Students with disabilities are encouraged to participate fully in all University events, programs, and other campus activities. Information on whom to contact to request accommodation or assistance should be listed on program information and advertisements. If unable to secure the requested assistance or if additional help with accessibility is needed, contact the ADA Coordinator in Diversity Inclusion and Equal Opportunity (DIEO) at <http://www.usf.edu/diversity/>

Tampa:

<http://www.usf.edu/diversity/>
Reasonable Academic Accommodations and Services for Students
Ms. Deborah McCarthy, Director
4202 E. Fowler Avenue, Student Services Building (SVC) 1133, Tampa, FL 33620- 6500



(813) 974-4309 (Voice), Email Contact: dmccarthy@usf.edu,
Web Contact: <http://www.usf.edu/student-affairs/student-disabilities-services/>

St. Petersburg:

BAY 208
diversity@usfsp.edu

Sarasota-Manatee:

SMC C107
<http://www.usfsm.edu/about/diversity/index.aspx>

Office of Veteran Success / Military and Veterans Success Center

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

USF is approved for the education of veterans, eligible dependents/spouses, members of the selected reserve, and active-duty personnel who are eligible for benefits under public laws now in effect. All majors currently offered at USF are approved by the Department of Veterans Affairs. Students who may be eligible for benefits are urged to contact the Office of Veteran Success/Military and Veterans Success on any USF campus:

Tampa Office of Veteran Success

vetserv@usf.edu
813-974-2291
USF Veteran Success website: <http://www.usf.edu/student-affairs/veterans/>
VA toll free number is 1-888-442-4551
Location/Phone: Student Services Building (SVC) 2088; (813) 974-2171

St. Petersburg

va@usfsp.edu
727-873-4467
TER 301/302

Sarasota-Manatee

941-359-4291
<http://www.usfsm.edu/campus-life/campus-resources/veterans-success/index.aspx>

Career Services

Career Services provides USF students with comprehensive career planning and job search services. A staff of experienced professionals is available to help students choose a career; gain career-related work experience and plan their job search. Career Services also provides information on employment opportunities and creates venues where students can network and interview with local, state, national and international employers. .

Career Center (Tampa): <https://www.usf.edu/career-services/>

Career Center (St. Petersburg): <https://www.usfsp.edu/career-center/>

Career Services (Sarasota-Manatee: <http://www.usfsm.edu/campus-life/career-services/index.aspx/>



Tobacco and Smoke Free University

USFSP 0-607SP: <https://usf.app.box.com/v/usfpolicy6-026>

USF is committed to providing a safe, healthy and enjoyable learning, living and working environment. All USF campuses are 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 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. For information on converting quarter hours to semester hours, for purposes such as transfer of credit and the required GPA for admissions, refer to: <http://www.grad.usf.edu/inc/linked-files/gpa.pdf>

Academic Load

See Enrollment Requirements in the Academic Policies Section

Academic Standing

Class 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 a major in a Master's Degree Program

6A - Graduate student admitted to a major in a Specialist Degree Program

6D - Graduate student admitted to a major in 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 Degree 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 major within a degree program

Graduate Certificate Seeking Students:

Students who have been accepted into a Graduate Certificate. 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 about Graduate Certificates and specific requirements, refer to Graduate Certificates .

Non-Degree-Seeking Students:

Students who have not been accepted into a major within a degree program 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 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 Students:

USF 10.001 Transient Student Policy: <https://usf.app.box.com/v/usfpolicy10-001>

The State University System 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 degree-seeking students who wish to enroll at another accredited institution **MUST HAVE PRIOR WRITTEN APPROVAL** from their college academic advisor to receive credit for courses taken.

For more information contact:

Tampa:

Registrar's Office at (813) 974-2000.

Transient Student Form: http://www.registrar.usf.edu/forms/TSF2008-04-07_16_17_06.pdf

St. Petersburg:

Office of Records and Registration

(727) 873-4645

<https://www.usfsp.edu/registrar/>

Sarasota-Manatee

Office of Records and Registration

(941)359-4330

<http://www.usfsm.edu/students/registration/index.aspx>

Graduate Assistantships (GA), Research Assistantships (RA), and Teaching Assistantships (TA): Graduate Assistantships are intended to recruit quality students to graduate study at USF 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 work under a contract negotiated by the 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. To receive an assistantship, the graduate student must meet the following eligibility requirements:

- Accepted in a graduate major;
- Maintain an overall minimum grade point average (GPA) **and** major GPA of 3.00;
- Enrolled full-time 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).
- Maintain a satisfactory work performance evaluation for all previous work performed as a Graduate Assistant.

Full-time enrollment is considered nine (9) graduate credit hours in the fall semesters 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 stated in the Graduate Catalog.



For specifics regarding Graduate Assistantship requirements, guidelines, and policies, refer to the Graduate Assistantships Resource Center online at: <http://www.grad.usf.edu/assistantships.php>, <https://www.usfsp.edu/graduate-studies/graduate-assistantships/>, the Graduate Catalog Academic Policies Section, and also the Graduate Assistants Policies and Guidelines Handbook.

Student Identification Card (USFCard and ID Badge) Policy

Policy Reference: USF 0-517 - <https://usf.app.box.com/v/usfpolicy0-517>

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 purchase of parking decals, obtaining passes for University sporting and theatrical events, and other related events/services. 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(s) 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. 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.

USFCards may be obtained at the USFCard Center on each campus.

Tampa:
SVC 1032

St. Petersburg:
Nelson Poynter Memorial Library-POY 221
(727) 873-4409
<http://www.dl.usf.edu/npml/usfid.html>

Sarasota-Manatee:
Parking Services
(941)359-4220
<http://www.usfsm.edu/campus-life/campus-resources/parking-services/index.aspx>

Student Records Policy

Reference: USF2.0021 - <https://usf.app.box.com/v/usfregulation20021>

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 USF 4-2.001, Florida Administrative Code.

Copies of the University's student records policy, USF 2.0021, may be obtained from the Office of the Registrar in Tampa, Office of Registration and Records in St. Petersburg, Office of Records and Registration in Sarasota or 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 (according to USF policy 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: *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, except upon prior authorization of the Office of Graduate Studies and the Provost/Vice Chancellor for Academic Affairs in St. Petersburg and Sarasota. In cases where a member of the immediate family of a faculty member is enrolled in a graduate major, 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 - <https://usf.app.box.com/v/usfpolicy10-065>

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) 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 (USF) 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 does not commit itself to offer all the courses, majors, and minors 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.

Mandatory First-Day Attendance Policy

All students are required to attend class the first day a class meets, for both online and on-campus courses. Students unable to attend must contact the instructor prior to the first day to ensure they are not dropped from the course. This policy is not applicable to courses in the following categories: Educational Outreach, FEEDS Program, Community Experiential Learning (CEL), Cooperative Education Training, and courses that do not have regularly scheduled meeting days/times (such as, directed reading/research or study, individual research, thesis, dissertation, internship, practica, etc.). 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, <https://usf.app.box.com/v/usfregulation40101>)

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 (USF) has established the following policy regarding religious observances: <https://usf.app.box.com/v/usfpolicy10-045>

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.



Cross-listing 4000/6000 Courses

It is expected that the 4000 and 6000 courses will have distinct syllabi demonstrating different depth and breadth of the subject matter as reflected in the course requirements. The courses presuppose different audiences, and the intention is to offer them at distinct levels.

Course Currency

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 <https://www.systemacademics.usf.edu/course-inventory/> or in the course description listing in the Graduate Catalog.

Course Syllabi Policy

Refer to USF Policy 11-008

Adds

After a student has completed his/her registration on the date assigned, he/she may add a course(s) during the drop/add week (i.e. through the fifth day of classes) through 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

Drop

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 course(s) dropped within that period. Courses may not be dropped after the last day of classes except in cases 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 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 taking graduate courses at USF. Only in extenuating circumstances will approval be granted for more than two course withdrawals. 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 experienced exceptional circumstances. 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 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 Office of Graduate Studies Dean/Vice Chancellor for Academic Affairs in St. Petersburg or Sarasota 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 or retroactive deletions in writing to the 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 filing an Audit Form and a date-stamped permit from the college/department on the campus where the course is being offered, with the Registrar's Office. Audit forms should be submitted to the Registrar's Office/Office of Records and Registration in St. Petersburg or Sarasota. IN-STATE fees are assessed for all audit courses. Procedure and forms for requesting to audit are available on the Registrar's websites:

Tampa- Website: <http://www.registrar.usf.edu/>

St. Petersburg Website: <http://www.usfsp.edu/registrar/>

Sarasota-Manatee Website: <http://www.usfsm.edu/students/registration/index.aspx>

Cancellation of Registration before First Class Meeting

Students may cancel their registration by notifying the Office of the Registrar/Office of Registration and Records in St. Petersburg and Sarasota 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 from the Cashier's Office.

Tampa: Cashier's Office: (813) 974-6056

St. Petersburg Cashier's Office: (727) 873-4107

Sarasota-Manatee Cashier's Office: (941)359-4220



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 in which the request for Voluntary Withdrawal is submitted. Students who wish to withdraw must submit a Voluntary Withdrawal Form, available from the Office of Graduate Studies:

Tampa: www.grad.usf.edu

St. Petersburg: www.usfsp.edu/graduate-studies

Sarasota: (<http://www.usfsm.edu/students/registration/index.aspx>)

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

Tampa: (813) 974-4700

St. Petersburg: (727) 873-4128

Sarasota: (941)359-4459.

The student will remain financially and academically responsible for any course(s) they have registered for. The student may request to drop or delete courses they are registered for by submitting an Office of Graduate Studies Petition.

Academic Dismissal

Students may be academically dismissed from their graduate major 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 status 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 in which the student is academically dismissed, 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 major.
- 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 Policy – 6.0021 Code of Student Conduct USF (<https://usf.app.box.com/v/usfregulation60021>) for more information.*

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 major at USF.



Financial Information

Tuition Information

Tuition and Fees Regulation: <https://usf.app.box.com/v/usfregulation40102>

For tuition information refer to: <http://usfweb2.usf.edu/finaid/>. Tuition and fees are subject to change, without prior notice. For information on Residency for tuition purposes, refer to the Florida Residency Policy.

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 or mailed to the Cashier's office. 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.

Student Financial Services

Houses the Cashier's office, student accounting, accounts receivable, and the Student Account Information desk. It is located in Student Service Building- SVC 1039, with the mailing address:

UCO-Student Accounting
University of South Florida
4202 E. Fowler Ave., ALN 147
Tampa, FL 33620.

Veteran Deferment Benefits

The tuition deferment program for Veterans is set up through USF and the 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 Transition Act of 2018. Section 103PL 115-407. For more information, contact the USF Office of Veteran Success:

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

St. Petersburg:
Military and Veteran's Success Center
140 7th Avenue S TER 301
St. Petersburg, FL 33701
(727) 873-4467 or <https://www.usfsp.edu/military-and-veterans-success-center/>

Sarasota/Manatee
Veteran's Success Center
8350 N. Tamiami Trail
Sarasota, FL 34243
(941) 359-4330 or <http://www.usfsm.edu/campus-life/campus-resources/veterans-success/>



Financial Aid

Financial assistance is available through the Office of University Scholarships and Financial Aid Services. Students requiring such assistance should contact usf.edu/financial-aid/ 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 Regulation USF 6-0121 and USF 6-012.

Office of University Scholarships and Financial Aid Services
4202 E. Fowler Ave., SVC 1102
Tampa, FL 33620
(813) 974-4700 or <http://www.usf.edu/financial-aid/>

USF St. Petersburg Office of Financial Aid
Location: 140 7th Ave S,
Bayboro Hall 105
St. Petersburg, FL 33701
Phone: (727) 873-4128 or <https://www.usfsp.edu/financial-aid/>

USF Sarasota-Manatee Office of Financial Aid
8350 N. Tamiami Trail, SMC C107
Sarasota, FL 34243
941-359-4459 or <http://www.usfsm.edu/admissions/scholarships-and-financial-aid/index.aspx>

Policy on Refunds and Repayments

USF Policy 10-013 at <https://usf.app.box.com/v/usfpolicy10-013>

Fees, Fines, and Penalties

USF Regulation USF4-017, at <https://usf.app.box.com/v/usfregulation40107>



Academic Policies

Academic Policy and Regulation Information

For USF Regulations and Policies refer to: <https://usfweb.usf.edu/generalcounsel/>

Student Responsibilities

The University, the Colleges, 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 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, schools, and departments may have additional requirements. Check with your College Graduate Advisor or your Department Director for more information. Courses, majors, 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 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 Conduct Code. Refer to the USF 6.0021, Student Code of Conduct at <https://usf.app.box.com/v/usfregulation60021>

Responsible Conduct of 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

Effective Spring 2013, the Office of Graduate Studies requires all new doctoral students to have basic RCR training by completing the Collaborative Institutional Training Initiative (CITI) module most relevant to the student's program of study. The CITI modules have been designed to introduce researchers to various elements of research conduct ranging from research misconduct to data management to mentoring. As this is a minimum requirement, specific doctoral majors may require training that goes beyond the basic components introduced in this module. Graduate Majors that have received Office of Graduate Studies approval for rigorous RCR training consistent with disciplinary standards and practices may exempt their students from the CITI requirement. Students must complete the module, or provide evidence of previous qualified RCR training to their Graduate Director and Office of Graduate Studies, in the first semester enrolled in a doctoral major. Previous RCR training should have been completed within the past year. Students will be unable to register for courses in a future semester until successful fulfillment of this RCR requirement. Once the training is completed, the Registration hold will be lifted.

Intellectual and Scholarship Integrity



Shared Authorship and Research Education Policy

USF contains a broad range of academic majors in diverse disciplines, and the USF 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/major 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 major shall have a formal statement about shared authorship made available to students (such as on a college or major website) or given to students at the same time as they are given notice about other major and college expectations.

Each college/major shall also have a written procedure for resolving questions or conflicts about shared authorship where students are involved. The college and major 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 major website) or given to students at the same time as they are given notice about other major and university expectations.

Academic Integrity of Students

Reference USF Regulation 3.027 - To read the entire Regulation, go to: <https://usf.app.box.com/v/usfregulation3027>. Please note the sections that specifically pertain to graduate students.

Disruption of Academic Process

Reference: USF Regulation 3.025 - <https://usf.app.box.com/v/usfregulation3025>

Student Academic Grievance Procedure

Reference: USF 10.002 Student Academic Grievance Procedure- <https://usf.app.box.com/v/usfpolicy10-002>

For matters that are not academic in nature, reference *USF 30-053 Student Grievance Processes and Non-Academic Grievance Policy* - <https://usf.app.box.com/v/usfpolicy30-053>

Graduate Catalog

Also reference: USF Policy 10-059 University of South Florida Catalogs

The USF Graduate Catalog, including college and major requirements, and major and course descriptions, is available on the web at <http://www.grad.usf.edu>. Each Catalog is published and in effect for the academic term(s) noted on the title page.



Student's Major Degree Requirements

In order to graduate, students must meet all requirements specified in the USF Catalog of their choice, except as noted below. As the University is dynamic, changes and updates to the catalog are anticipated. In contrast 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 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 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 standard or criteria.
- If the College, school, or department 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 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 does not commit itself to offer all the courses 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 major to ensure that the student is not penalized. Core courses and required courses for the Major should not be substituted, and may only be substituted with approval from the College and Dean or Designee of the Office of Graduate Studies.

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 approval 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 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 work under a contract negotiated by the 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.

Eligibility

To receive an assistantship, the graduate student must meet the following eligibility requirements:

- Accepted in a graduate major ;
- Maintain an overall minimum grade point average (GPA) **and** major GPA of 3.00;
- Enrolled full-time during the semester(s) appointed as a graduate assistant.
- For Teaching Assistants, 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 may be appointed up to a maximum of 0.50 FTE for a single assistantship. Departments/Schools who desire to appoint a Graduate Student, in any classification, more than 0.50 FTE up to 0.75 FTE, for single or multiple appointments, must submit justification to the Office of Graduate Studies for approval. Students hired in non-GA positions on campus must also not exceed 0.75 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 assistantship appointments.

Enrollment (Assistantships)

Full-time enrollment is considered nine (9) graduate credit hours in the fall and spring semesters 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 stated in the Graduate Catalog. For specifics regarding Graduate Assistantship requirements, guidelines, and policies, refer to the Graduate Assistants Policies and Guidelines Handbook

Note - Criminal History Background Checks may be required depending on the appointment - reference USF Policy 0-615 - <https://usf.app.box.com/v/usfpolicy0-615>

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 a minimum of nine (9) hours toward their degree in the fall or spring semester, or taking a minimum of six (6) hours in the summer semester, will be classified as Full-Time students for academic purposes. Students may not take more than eighteen (18) graduate hours per semester without prior written approval by the College.

For financial aid enrollment requirements, refer to the Office of Financial Aid - <https://www.usf.edu/financial-aid/enrollment-status.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 six (6) hours of graduate credit every three (3) continuous semesters. **Courses that receive a "W" grade do not fulfill continuous enrollment requirements.** Colleges and majors 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. Students who have been Admitted to Doctoral Candidacy must follow the Dissertation Hour Enrollment in place of the Continuous Enrollment requirement as specified here for all graduate students (not in candidacy). 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 major and is not guaranteed. *Refer to the Readmission Policy in the Graduate Admissions Section for more information.*

Enrollment during Comprehensive Exams and Admission to Candidacy

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. Students must also be enrolled for a minimum of two (2) hours of graduate work in the semester of admission to doctoral candidacy.

Dissertation Hours

Students working on a dissertation must enroll for a minimum of two (2) hours of dissertation every semester, starting with the semester following Admission to Doctoral Candidacy, up to and including the semester the dissertation is submitted to and approved by the Office of Graduate Studies. Dissertation hours may apply to the Continuous Enrollment Requirement. Colleges and majors may have additional requirements. Students who are dropped from degree-seeking status and formally readmitted to the major must enroll in a minimum of five (5) dissertation hours in the semester that the readmission is effective. *Refer to the Readmission Policy in the Graduate Admissions Section for more information. Note: students cannot be enrolled in thesis and dissertation at the same time.*



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/dissertation approved and therefore may not be certified for graduation. *Note: students cannot be enrolled in thesis and dissertation at the same time.*

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 Dean of the Office of Graduate Studies.

Leaves of Absence (LOA)

Leaves of absence 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 must be enrolled in the first semester after the approved Leave of Absence expires. The LOA must be approved by the Major Professor, the Graduate Director, 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. Doctoral candidates returning from a LOA must also have their candidacy status reactivated.

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 towards 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: <https://studentaid.ed.gov/sa/eligibility/staying-eligible>

Federal regulations require all schools participating 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 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 majors.

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.

Academic Renewal

Ref: USF 10-075 - <https://usf.app.box.com/v/usfpolicy10-075>

When a student changes majors or degree levels, the GPA for this new major/degree level will exclude courses taken for previous majors or degree levels, unless faculty approve the course(s) for application of internal credit toward the requirements for the new major or degree level. Academic Renewal will only be applied to the degree seeking student's record one time, per degree level, at USF and may affect the student's financial aid, Tuition Assistance, use of Veterans Educational Benefits, or student visa status. On the transcript, the grades for the courses taken for a previous major are noted to indicate that the grade points for that course have been excluded from the GPA for the current major or degree level that the student is enrolled. Academic Renewal is not an option for students to use to eliminate a poor grade in a course. Refer to the Grade Point Average section for information on Grade Forgiveness. Refer to USF 10-075 for full and specific information.

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. The GPA is truncated to two decimals (3.48) and is not rounded up.

Credit hours for courses with grades of **I, IU, M, MU, N, S, U, W, 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 USF 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 major will not be counted in the GPA unless the coursework in question was taken as a non-degree-seeking student at USF 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 will be assigned quality points in the Grade Point Average (GPA) grading system. The +/- designation must be included in the syllabus provided at the beginning of the course. The use of the +/- grading system is at the discretion of the instructor. The syllabus policy is available at: <https://usf.app.box.com/v/usfpolicy11-008>

Letter grade = number of grade points

| | |
|-----|--|
| 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 |
| E | Course repeated, not included in GPA |
| FF | Failure due to academic dishonesty (Graduate Students who receive an FF will be academically dismissed from the University and will not be eligible to apply to any graduate program at USF. See section on Academic Dishonesty and Graduate Studies Policy on Academic Integrity for more information.) |
| CF | Cancelled Financially (Course was cancelled due to financial reasons) |
| CMU | Cancelled, 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 |
| WC | Withdrawal for extenuating circumstances |
| Z | Continuing registration in multi-semester internship or Thesis/Dissertation courses, grade points not applicable |

* *Incomplete grade policy change effective fall 08. IF grades earned and posted prior to fall 2008 do calculate in the GPA; IF grades earned as of 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 courses taken outside of the major for S/U credit 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 must be 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. 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 submitted through e-Grades 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, identifying the remaining coursework to be completed, the student's 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 was 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 a zero for the missed work, would be a "D"
- student and instructor complete the "I" Grade Contract, assigning an "ID" (Incomplete - D grade)

Deadline Agreed Upon in Contract (e.g. two weeks):*

If the student completes the work as agreed upon in the Contract by the noted deadline

- the instructor of record will submit a change of grade in e grades
- 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 grade of "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 department/school chair. Courses with an **M** grade may not be applied to the major requirements. Students with an **M** grade will not be admitted to doctoral candidacy until the **M** grade is resolved. 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/dissertation courses where the final grade to be assigned will indicate the complete sequence of courses or satisfactory completion of the thesis/dissertation. Upon satisfactory completion of a multi-semester internship or thesis/dissertation, the final grade assigned will be an **S**. The Office of Graduate Studies submits the change of grade for the last registration of thesis/dissertation courses once the thesis/dissertation 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 major may also place students on probation for other reasons as designated by the college or major. Notification of probation shall be made to the student in writing by the department, 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 major.

Students on probation may only enroll in graduate courses (5000-7000 level) that are part of the approved degree major requirements as 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 Dean of 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 major itself) can be obtained from the Office of Graduate Studies (<https://www.usf.edu/graduate-studies/students/forms.aspx>). Appropriate alternative calendar dates may apply. Students who withdraw may not continue to attend classes.

Transfer of Credit *(From Institutions External to USF Tampa)*

With the approval of the graduate major, college, and Office of Graduate Studies, students may transfer into their graduate major graduate-level structured coursework taken at other institutions of higher learning. Individual Graduate Majors may have more restrictive requirements.

- 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 other Institutions are not calculated in the USF GPA, although the courses are listed on the transcript and the hours are reflected in the total hours earned.
- May transfer in up to 50% of a given graduate major's total minimum hours 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. *Note – the 50% maximum includes the total of both external Transfer of Credit and Internal Application of credit.*
- 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 graduate advisor. For students entering a doctorate after completion of a master's degree, departments may count up to 50% of the structured graduate credits from the master's toward the post-baccalaureate requirements for the doctorate. The courses must be individually evaluated and transferred in. Block transfers are not permitted.
- Transferred courses must not be older than ten years at the time of graduation or course currency is required.

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
- Dean 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 USF Credit

Up to 50% of 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 Application of Internal Credit

Acceptance requires completion of the Application of Credit Form and approval of the

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

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.

Change of Graduate Major

See Change of Graduate Major in the Admissions Section.

Bachelor's/Master's Pathways Policy

Bachelor/Master's Pathways allow highly qualified undergraduate students to complete a bachelor's degree and a master's degree or a Bachelor's degree and a professional doctorate in a select few majors. Bachelor/Master's Pathways commonly offer a shorter duration to completion of both degrees. Students complete a portion of the required graduate coursework while classified as an undergraduate student and have it count towards both degrees. As soon as the student completes the undergraduate degree requirements, the student is converted to graduate student status, where the remaining graduate requirements are fulfilled. Students interested in pursuing a Bachelor/Master's Pathways must complete an Bachelor/Master's Pathways Application.

Note: *Although students may be in a Bachelor/Master's Pathways, pursuing a Bachelor's and Master's Degree at the same time, they cannot be enrolled in two levels at once.*

Bachelor/Master's Pathways:

- Require that degrees are conferred sequentially
- Have an approved Program of Study, including a plan for academic advising and notation for financial aid impact



- May share up to twelve (12) hours of structured graduate credit between the graduate and undergraduate degree or between the graduate degree and the Judy Genshaft Honors College Curriculum Requirements tied to the undergraduate major. Refer to the specific major for total hours approved to be shared.
- Require approval from the Undergraduate Council, Graduate Council, and if applicable, SACSCOC. It is preferred that the total combined credits be at least 150 credits (120 bachelor's and 30 master's) after the shared coursework is counted. Bachelor's/Master's Pathways with less than 150 total combined credits may be considered for approval but require submission to SACSCOC as a Substantive Change.
- Require a 3.33 GPA overall and a 3.50 GPA in the undergraduate Major
- Require that the admission requirements for the graduate major be noted in the Bachelor's/Master's Pathways requirements.
- Require a minimum of 15 hours in the undergraduate major to be completed before a student may apply for consideration for the Bachelor's/Master's Pathway
- Require a "B" (3.00) in each graduate course taken as part of the shared credits applied to both undergraduate and graduate majors. Consequences for not obtaining a "B" will be noted in the specific Bachelor's/Master's Pathways requirements

Application and Progression

Application - Students may be considered for a Bachelor's/Master's Pathways following completion of a minimum of 15 hours in the undergraduate major and submission of an *Bachelor's/Master's Pathways Application*. The student may be considered for acceptance into the Bachelor's/Master's Pathways through faculty nomination or student self-nomination via submission of the Bachelor's/Master's Pathways Application Form. Advisors/Graduate Directors will review and approve the application.

Progression - Advisors/Graduate Directors will verify graduate admission eligibility and submit the required paperwork (*Bachelor's/Master's Pathways Progression Form*) to officially convert the student to graduate standing, no later than the semester in which the student will reach 120 hours or the semester in which the Bachelor's degree will be conferred. The application requires approval from the Graduate Major, College, and Office of Graduate Studies.

Concurrent Degrees

Students interested in Concurrent Degrees:

- Must apply for admission to the first major and validate admission through enrollment. In the semester following that enrollment, the student must apply for admission to the second major and concurrent degree approval by submitting the Application for Concurrent Degree Form from the Office of Graduate Studies.
- May share between 0% and 15% of the total combined minimum credit hours. Only structured graduate coursework may be shared.
- Will meet all other separate degree requirements (e.g. two dissertations, one thesis/one dissertation, projects, exams, etc.), unless the Concurrent Degree was approved with a combined requirement by Graduate Council through the formal Concurrent Degree Curriculum Approval.
- Must have a minimum of 60 total combined graduate hours after the shared hours are applied for concurrent master's majors, or a minimum of 102 total combined graduate hours for a concurrent master's/doctorate
- Degrees may be conferred sequentially or concurrently, as specified in the approved Major requirements
- Both Degrees must be conferred within the time-limit for the first degree to which the student is admitted.

Example: A student is enrolled in two master's majors, one requires 30 hours and the other requires 42 hours minimum. With approval, the student may share 9 hours (equal to or less than 15%) across the combined 72 total minimum credit hours required. The total minimum hours completed would then be 63. The student would also complete two separate theses. In concurrent degrees where the student is completing a thesis for one major and the other does not require a thesis, the thesis submitted to the Office of Graduate Studies reflects the Major for which it is required.



Concurrent Degree Curriculum Approval

A Concurrent Degree may be developed in the following ways:

- an established relationship between two majors formulated through the Department(s) and then formalized through the College(s), Office of Graduate Studies, and Graduate Council. A current list of formalized programs with Concurrent Degree designation may be found in the Graduate Catalog.
- formulation by an individual student who is interested in pursuing two majors that are not currently a formalized Concurrent Degree. Students must request approval from both majors of interest to pursue a Concurrent Degree with those majors. Any approved Concurrent Degrees must meet the minimum accreditation requirements (e.g. 60 hours combined after sharing hours between two Master's degrees). For procedures and the necessary forms, refer to the Office of Graduate Studies website. Note: when a Major has this occur more than three times, the Major should follow the process to formalize that Concurrent Degree.

Interdisciplinary Majors

A student may pursue a single graduate degree that spans several academic areas.

An Interdisciplinary Major –

Defined as a student pursuing a single stand-alone graduate degree, which is offered across two or more graduate majors. (Note: where two separate degrees are preferred, refer to the Concurrent Degree information above).

Application to an Interdisciplinary Major

Students interested in applying for admission to an Interdisciplinary Major follow the established University, College, and Major admission requirements – refer to the Office of Graduate Studies website for specific information for that particular major.

Development of an Interdisciplinary Major

Interdisciplinary Majors are formalized through the College, Office of Graduate Studies, and Graduate Council and must follow the University requirements for development of a new degree program and/or major, including notation on the Accountability Plan, if applicable. Procedures for developing an Interdisciplinary Major are available on the Office of Graduate Studies website. For information contact the Office of Graduate Studies.

Off-Campus Courses and Majors

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



Degree Requirements

Degree Requirements

The following sections describe the University minimum requirements established by the Office of Graduate Studies for the Master's, Education Specialist, and Doctoral degrees. However, individual majors and colleges may establish additional or *more stringent* requirements.

Student Responsibilities

The University of South Florida and all colleges, departments and majors 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 student understand and arrange to meet these requirements, but the student is 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 currently informed throughout their college careers. Courses, majors, 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 Board of Trustees.

Graduate Faculty Definition

The University of South Florida 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 holds 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. To chair a doctoral level committee, a Graduate Faculty member must engage in current and sustained scholarly, creative, or research activities, such as publications, performances, exhibitions, patents, inventions and research grants.

Affiliate Graduate Faculty membership may be granted by the Office of Graduate Studies Dean/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 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. Affiliate Graduate Faculty can only serve as the Instructor of Record when they have a terminal degree in the discipline and are approved to teach graduate courses in that field. Emeritus Professors and retired or recently resigned professors may also be appointed as Affiliate Graduate Faculty with the approval of the College and Office of Graduate Studies Dean/Vice Chancellor for Academic Affairs (or designee).

Graduate Faculty Approval – 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. Also reference USF Policy 10-115 – Faculty Credentials for Teaching Undergraduate and Graduate Courses - <https://usf.app.box.com/v/usfpolicy10-115>. For a current list of Graduate Faculty and Affiliate Graduate Faculty in any major contact the graduate director or coordinator.

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; the remaining hours must be at the 5000 level or above.

At least twenty (20) hours must be in formal, regularly scheduled structured course work. Lower level undergraduate courses 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 count 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 individual master's major is noted in the degree requirements section of the Graduate Catalog for that major listing. Majors with formally approved concentrations must have core major requirements that all students must successfully complete.

Institutional Enrollment Requirement

The majority of credits toward a graduate degree must be earned through instruction offered by USF. For information about the minimum number of credit hours required for the major refer to the curriculum requirements in the Catalog listing for that major. Students are responsible for consulting with their Graduate Director for information on courses that may be taken outside their graduate major, as well as the Transfer of Credit Policy for course transfer eligibility requirements. Although equivalent courses may be offered at other institutions, they may not satisfy degree requirements.

Students must matriculate for at least one semester following admission to the University before graduation may be approved. Students who want to change majors following admission into the University, must wait one semester before submitting the Change of Major request.

Students who change to a lower degree level (e.g. change from doctorate to master's), in the same major, may graduate the same semester that the change is approved, provided that it is not the first semester following admission to the University.

Time Limitations

Master's and Ed.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 graduate major, for example as non-degree seeking or from other institutions, must be transferred in prior to graduation (preferably before the end of the student's second semester; see Course Currency). Master and Ed.S. degrees (including concurrent degrees) that require course work in excess of 50 credit hours may be granted a longer time limit by the University Graduate Council.

Time Limit Extensions

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 Office of Graduate Studies website:

Tampa: <http://www.grad.usf.edu/student-forms.php>

St. Petersburg: <http://www.usfsp.edu/grad>

Sarasota-Manatee: <http://sar.usfsm.edu/catalog/academics/academic-policies-regulations/time-limit-extensions/>

Requests must include:

- the reasons for the delay in completion,
- the anticipated time needed for completion,



- endorsements from the graduate faculty advisor, graduate major, and College Dean or designee,
- a detailed plan of study denoting the pathway to completion 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, with the exception of those transferred in or from completed majors. However, majors may require additional or repeat coursework as part of the condition of the time-limit extension. For requests exceeding a year of additional time, the Office of Graduate Studies will audit the student's progress each semester to ensure that the plan of study is adhered to and that progress towards degree completion is occurring.

Students who exceed the time limitations 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 major should submit a Leave of Absence Request, which extends the time limit for the duration of the approved Leave for up to two years (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

The Major Professor serves as the student's advisor and mentor. Students should confer with the academic area to confirm the internal process and timeline for the selection and appointment of the Major Professor. The student must identify a major professor from the student's academic area, approved by the student's Department/School (or College if a College administered major), and receive that person's agreement to serve as major professor. The selection of the Major Professor must be approved and appointed as soon as possible, but no later than the time the student has completed 50% of the major. 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 from the Department (or equivalent). Students who are unable to find a replacement major professor should confer with the Graduate Director for available options (including converting to a non-thesis option if available.) If no other options exist, the student may be requested to voluntarily withdraw from the major or may be honorably withdrawn in good academic standing. The student and major professor should plan a program of study which, when completed, will satisfy the degree requirements specified. A copy of this program of study, signed by the student and professor, must be maintained in the student's department file.

Major Professors must meet the following requirements:

- Be graduate faculty*, as defined by the University, from the student's academic area.
- Be engaged in current and sustained scholarly, creative, or research activities and have met departmental (or equivalent) requirements
- Have been approved by the student's Department Chair (or equivalent) to serve as a Major Professor or Co-Major Professor

**Affiliate Graduate Faculty may serve as a Co-Major Professor with a graduate faculty from the student's department. Co-Major Professors may be two graduate faculty or one graduate faculty and one approved Graduate Affiliate Faculty*

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



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 and able to continue serving on the student's committee, the Major Professor then becomes a Co-Major Professor on the Committee and another graduate faculty from the student's Department is appointed as the other Co-Major Professor. In the event that the other Co-Major is Affiliate Graduate Faculty, the faculty leaving the University may remain as a member, with another graduate faculty from within the student's Department appointed as the other Co-Major Professor. To ensure that the student can make satisfactory progress, one of the Co-Major Professors must be accessible on the University campus for the student to make satisfactory progress on the thesis/dissertation. In the event a Major Professor is on temporary leave (e.g. sabbatical, research, etc.); the Major Professor shall coordinate with the Graduate 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.)

(Co-) Major Professor(s) of the Graduate Student Supervisory Committee Responsibilities

Approved by the Graduate Council on May 15, 2000; revised August 26, 2013:

- Approving and submitting the Graduate Student Supervisory Committee Form to the Program, and if necessary, the College
- Approving and submitting the Admission to Candidacy Form.
- Specifying the style manual to be used for the thesis/dissertation before the student begins writing the manuscript. The style manual should be appropriate to the discipline.
- Students should not be told to follow other theses/dissertations.
- Referring students to the Thesis and Dissertation Guidelines (<http://www.grad.usf.edu/ETD-res-main.php>) to obtain information on University Format Requirements.
- Verifying by signing the Certificate of Approval, that the student's thesis or dissertation is ready to be submitted to the OGS for publication.
- Verifying, by signing the Request for the Ph.D./Ed.D. Final Oral Examination Form, that the student is ready to defend the dissertation.
- Verifying, by signing the Successful Defense of the Ph.D./Ed.D. Form, that the doctoral student has successfully defended the dissertation.
- Reading and approving the final copy of the thesis/dissertation for content and format prior to signing the Certificate of Approval.

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 Majors 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 committee. Persons desiring to serve on a Graduate 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 (CV) and be approved by the Department, College, and, as needed, 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 definition, committee membership will be based upon criteria developed within the appropriate major or department and approved at the college level. These criteria must be forwarded to the Dean of 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 major/college before graduation may be certified. Committee forms need to be processed as early in the major 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 acknowledgement 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 major 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 and Dissertation Guidelines, available on the web at:

Tampa: <http://www.grad.usf.edu/ETD-res-main.php>

St. Petersburg: <http://www.usfsp.edu/grad>

Sarasota: <http://sar.usfsm.edu/catalog/academics/academic-policies-regulations/thesis/>

for complete information about requirements, procedures, and deadlines. *For enrollment requirements, refer to the Academic Policies section.*

Thesis Format

The University accepts the standard format for the discipline of the major. Formats must be consistently applied and follow national standards for the discipline.

For the preliminary pages, which follow a standard University format, refer to the ETD website - <http://www.grad.usf.edu/ETD-res-main.php>

Directed Research

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

Manuscript Processing Fee

USF Regulation USF4-0107, <https://usf.app.box.com/v/usfregulation40107>

Students participating in the thesis/dissertation process are required to pay a processing fee. More information is available on the Thesis and Dissertation website.

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 Office of Graduate Studies Petition is filed with the Office of Graduate Studies no later than the last day to withdraw (see Academic Calendar for applicable dates). If a student enrolled in a thesis required major has taken 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 Major. Contact the College and Major for requirements.

Thesis Final Submission Guidelines

Information on requirements for submission of the finished and approved manuscript copy is available online at the Thesis and Dissertation website <http://www.grad.usf.edu/ETD-res-main.php> . 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 ETD website. Only after the Office of Graduate Studies has approved the manuscript can the student be certified for the degree.

Mandatory Electronic Submission

Students are required to submit the thesis in an electronic format (ETD). Requirements and procedures are available at the Office of Graduate Studies website <http://www.grad.usf.edu/ETD-res-main.php>

Submission for Official Publication and Archiving

All theses/dissertations will be submitted to the Office of Graduate Studies designated System for official publication and archiving.

Changes after Publication

Once a thesis is approved and accepted by the Office of Graduate Studies 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" (USF Policy O-300: <https://usf.app.box.com/v/usfregulation12003>) 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..." (April Burke, "University Policies on Conflict of Interest and Delay of Publications," Report of the Clearinghouse on University-Industry Relations, Association of American Universities, February, 1985.)

To protect the University's primary goal from un-due 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 USF 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 O-300 - <https://usf.app.box.com/v/usfpolicy0-300> and USF 12.003 <https://usf.app.box.com/v/usfregulation12003>.

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 courses to the Office of the Registrar when all grades are due at the end of the semester.

Conferring a Master's Degree for Student in a Doctoral Degree Program

Doctoral Degree Programs that admit students with Bachelor's degrees may choose to award a Master's degree during the completion of the requirements for the Doctoral degree. In this case, a student making satisfactory progress in a Doctoral, program and who meets all of the Master's degree requirements, may be eligible to be awarded a Master's degree in the same discipline.

Students must:

- Complete at least twenty (20) hours of formal, regularly scheduled structured coursework.
- Meet the specific curriculum requirements for the requested Master's Degree, as specified in the Graduate Catalog posted at the time of the request.
- Perform satisfactorily on a comprehensive examination or an alternative method designated by the academic unit.
- Complete the requirements of the thesis or non-thesis option, as outlined in the Graduate Catalog. Master's degree programs that require a thesis must conform to the Thesis and Dissertation Guidelines. If the student chooses the thesis option, he/she must register for thesis hours and complete the thesis before Admission to Doctoral Candidacy and registration of dissertation hours.
- Register for a minimum of two (2) graduate credits in the semester the Master's degree will be awarded.

The two degrees are not considered part of a formal "concurrent degree" program and, therefore, are not subject to the policies governing concurrent degree programs. However, the College must identify which courses are used to meet each of the Master's and Doctoral degree requirements.

The Master's degree requirements may not be fulfilled using from credits from a previously earned Master's degree.

Requests for conferring a Master's degree for a student in a Doctoral Degree Program require approval from the Department, College Dean or designee, and the Office of Graduate Studies Dean or designee.

Education Specialist Degree (Ed.S.) Requirements

Ed.S. Thesis

Students who are required to submit an Ed.S. Thesis must meet all of the requirements for the thesis, as specified in the Master's Degree section of this publication. For specific major information, refer to the College of Education.

Ed.S. Project

Students who are required to submit an Ed.S. Non-Thesis project must meet all of the requirements as specified by the College of Education. A project does not need to meet the requirements of a thesis and is not submitted to the Office of Graduate Studies for approval and archiving.

Doctoral Degree Requirements



The doctoral degree is granted in recognition of high attainment in a specific field of knowledge. It is a research degree and is not conferred solely upon the earning of credit, the completion of courses, or the acquiring of a number of terms of residency, but also the successful completion of scholarly work. The length of residency and the requirements below are minimums; majors/colleges may elect to establish more rigorous requirements. The degree will be granted after the student has shown proficiency and distinctive achievement in a specified field, has demonstrated the ability to do original, independent investigation, and has presented these findings with a high degree of literary skill in a dissertation. A major professor will be appointed as soon as possible but no later than the time the student has completed 50% of the major. The advisor will advise on any specific subject matter deficiencies and assist in the choice of a major professor and area of research.

Responsible Conduct of 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

Effective Spring 2013, Office of Graduate Studies requires all new doctoral students to have basic RCR training by completing the Collaborative Institutional Training Initiative (CITI) module most relevant to the student's program of study. The CITI modules have been designed to introduce researchers to various elements of research conduct ranging from research misconduct to data management to mentoring. As this is a minimum requirement, specific doctoral majors may require training that goes beyond the basic components introduced in this module. Graduate Majors that have received Office of Graduate Studies approval for rigorous RCR training consistent with disciplinary standards and practices may exempt their students from the CITI requirement. Students must complete the module, or provide evidence of previous qualified RCR training to their Major Director and Office of Graduate Studies, in the first semester enrolled in a doctoral major. Previous RCR training should have been completed within the past year. Students will be unable to register for courses in a future semester until successful fulfillment of this RCR requirement. Once the training is completed, the Registration hold will be lifted.

Doctoral Minimum Hours

The doctoral degree is earned on the basis of advancement to doctoral candidacy status and satisfactory completion of the dissertation. *Note- for professional doctorates (e.g. Au.D., D.N.P., Dr.P.H., D.P.T., M.D.), a dissertation may not be required. Refer to the major listing for more information.* The minimum number of credit hours to earn the doctorate is 72, post-bachelors, including dissertation (or project). The minimum number of credit hours required for each individual doctorate major is noted in the degree requirements section of the Graduate Catalog for that major listing. Some graduate majors may require more than 72 hours. Majors with formally approved concentrations must have core major requirements that all students must successfully complete.

Students must comply with general enrollment requirements and also institutional residency requirements. All doctoral students must have at least one gradable (A-F) graduate course taken at USF to satisfy the GPA minimum requirements. No undergraduate course may be used to satisfy the gradable minimal course requirement for the doctoral degree. Lower level undergraduate courses may not be used to satisfy doctoral major requirements, but may be taken to meet specific prerequisites. All graduate and undergraduate courses taken as a graduate student count in the overall GPA, whether or not they count toward the minimum hours for the degree.

Time Limitations

Doctoral degrees must be completed within seven (7) years from the student's original date of admission for doctoral study. All courses applied to the doctoral degree must be completed within ten (10) years, including courses taken

1. prior to admission to the USF doctoral major,
2. taken as non-degree seeking, or
3. transferred in from other institutions.

There is no time limitation for courses from a completed master's degree used toward a doctoral degree. For students who are readmitted, see Readmission Policy . Typically, a student will reach candidacy within four years, but this may vary per discipline.



M.D., D.P.T., Pharm.D. Professional level doctoral programs are subject to program defined time limits. Students in these professional programs can request a time limit extension if needed. However, such a request would only be granted in extraordinary circumstances. Contact the program for specific information.

Time Limit Extensions

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 Office of Graduate Studies website <http://www.grad.usf.edu/student-forms.php> .

Requests must include

- the reasons for the delay in completion,
- the anticipated time needed for completion,
- and endorsements from the graduate faculty advisor, graduate major, and College Dean or designee,
- a detailed plan of study denoting the pathway to completion 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 applies to courses applied toward the degree, with the exception of those transferred in or from completed majors. However, majors may require additional or repeat coursework as part of the condition of the time-limit extension. For requests exceeding a year of additional time, the Office of Graduate Studies will audit the student's progress each semester to ensure that the plan of study is adhered to and that progress towards degree completion is occurring.

Students who exceed the time limitations 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 major should submit a Leave of Absence Request, which extends the time limit for the duration of the approved Leave for up to two years (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. For more information and guidance, contact the Office of Graduate Studies.

Enrollment Requirements

See *Academic Policies Section*

Institutional Enrollment Requirement

The majority of credits toward a graduate degree must be earned through instruction offered by USF. For information about the minimum number of credit hours required for the degree refer to the degree requirements in the major listing. Students are responsible for consulting with their graduate coordinator for information on courses that may be taken outside their graduate major, as well as the Transfer of Credit Policy for course transfer eligibility requirements. Although equivalent courses may be offered at other institutions, they may not satisfy degree requirements.

Conferring a Master's Degree for Student in a Doctoral Degree Program



Doctoral Degree Programs that admit students with Bachelor's degrees may choose to award a Master's degree during the completion of the requirements for the Doctoral degree. In this case, a student making satisfactory progress in a Doctoral, program and who meets all of the Master's degree requirements, may be eligible to be awarded a Master's degree in the same discipline.

Students must:

- Complete at least twenty (20) hours of formal, regularly scheduled structured coursework.
- Meet the specific curriculum requirements for the requested Master's Degree, as specified in the Graduate Catalog posted at the time of the request.
- Perform satisfactorily on a comprehensive examination or an alternative method designated by the academic unit.
- Complete the requirements of the thesis or non-thesis option, as outlined in the Graduate Catalog. Master's degree programs that require a thesis must conform to the Thesis and Dissertation Guidelines. If the student chooses the thesis option, he/she must register for thesis hours and complete the thesis before Admission to Doctoral Candidacy and registration of dissertation hours.
- Register for a minimum of two (2) graduate credits in the semester the Master's degree will be awarded.

The two degrees are not considered part of a formal "concurrent degree" program and, therefore, are not subject to the policies governing concurrent degree programs. However, the College must identify which courses are used to meet each of the Master's and Doctoral degree requirements.

The Master's degree requirements may not be fulfilled using from credits from a previously earned Master's degree.

Requests for conferring a Master's degree for a student in a Doctoral Degree Program require approval from the Department, College Dean or designee, and the Office of Graduate Studies Dean or designee.

Major Professor

The Major Professor serves as the student's advisor and mentor. Students should confer with the Department (or equivalent) to confirm the internal process and timeline for the selection and appointment of the Major Professor. The student must identify a major professor from the student's academic area, approved by the student's Department/School (or College if a College administered major), and receive that person's agreement to serve as major professor. The selection of the Major Professor must be approved and appointed as soon as possible, but no later than the time the student has completed 50% of the major. 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 Graduate Director for available options. If no other options exist the student may be requested to voluntarily withdraw from the major or may be honorably withdrawn in good academic standing. The student and Major Professor should plan a program of study which, when completed, will satisfy the degree requirements specified. A copy of this program of study, signed by the student and professor, should be maintained in the student's department file.

Major Professors must meet the following requirements:

- Be from the student's academic area -- Be graduate faculty*, as defined by the University, from the student's academic area
- Be engaged in current and sustained scholarly, creative, or research activities and have met departmental (or equivalent) requirements
- Be active in scholarly pursuits as evidenced by at least one refereed publication in the last three years.
- Have been approved by the student's Department Chair (or equivalent) to serve as a Major Professor or Co-Major Professor.

**Affiliate Graduate Faculty may serve as a Co-Major Professor with a graduate faculty from the student's department. Co-Major Professors may be two graduate faculty or one graduate faculty and one approved Graduate Affiliate Faculty*

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



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 and able to continue serving on the student's committee, the Major Professor then becomes a Co-Major Professor on the Committee and another graduate faculty from the student's Department is appointed as the other Co-Major Professor. In the event that the other Co-Major is Affiliate Graduate Faculty, the faculty leaving the University may remain as a member, with another graduate faculty from within the student's Department 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/dissertation. In the event a Major Professor is on temporary leave (e.g. sabbatical, research, etc.); the Major Professor shall coordinate with the Graduate 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, admission to candidacy, etc.)

(Co-) Major Professor(s) of the Graduate Student Supervisory Committee Responsibilities

Approved by the Graduate Council on May 15, 2000; revised August 26, 2013:

- Approving and submitting the Graduate Student Supervisory Committee Form to the Program, and if necessary, the College
- Approving and submitting the Admission to Candidacy Form.
- Specifying the style manual to be used for the thesis/dissertation before the student begins writing the manuscript. The style manual should be appropriate to the discipline.
- Students should not be told to follow other theses/dissertations.
- Referring students to the Thesis and Dissertation Guidelines (<http://www.grad.usf.edu/ETD-res-main.php>) to obtain information on University Format Requirements.
- Verifying by signing the Certificate of Approval, that the student's thesis or dissertation is ready to be submitted to the OGS for publication.
- Verifying, by signing the Request for the Ph.D./Ed.D. Final Oral Examination Form, that the student is ready to defend the dissertation.
- Verifying, by signing the Successful Defense of the Ph.D./Ed.D. Form, that the doctoral student has successfully defended the dissertation.
- Reading and approving the final copy of the thesis/dissertation for content and format prior to signing the Certificate of Approval.

Doctoral Committees

Some Colleges have a Graduate Committee comprised of graduate faculty, who advise the student from admission up to doctoral candidacy, when the formal Doctoral Dissertation Committee is formed. As soon as an area of research is determined and a major professor is selected, a Doctoral Dissertation Committee will be appointed and approved for the student. The Department will request approval of the Doctoral Committee from the Dean of the College and, as needed, the Dean of the Office of Graduate Studies.

Role of Doctoral Committees

Depending on the College, either the Graduate Committee or the Doctoral Dissertation Committee is responsible for

- approving the student's course of study
- grading the written comprehensive qualifying examination



Doctoral Dissertation Committee

Doctoral Dissertation Committees will,

- approve the plan for research
- supervise the research
- read and approve the dissertation, and
- conduct the dissertation defense.

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 doctoral committee. Persons desiring to serve on a 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 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 definition, committee membership will be based upon criteria developed within the appropriate major or department and approved at the college level. These criteria must be forwarded to the Dean of the Office of Graduate Studies.

Composition

The Doctoral Dissertation Committee will consist of at least four members:

- the Major Professor must be from the student's academic area-- two additional members must come from the academic area (i.e. discipline) of the student
- at least one external member (from outside the Department, School, or equivalent, hosting the doctoral major, but may be within the academic discipline)
- Faculty holding joint or adjunct appointments in the degree-granting academic unit (i.e. Department or equivalent) cannot be external members on a student's committee.

Approval

Once a committee has been determined, a *Doctoral Dissertation Committee Form* needs to be completed by the student and submitted to the Committee Members for original signature. Check with the College for instructions and forms. To insure uniformity of excellence across the colleges, the (Co-)Major Professor(s) of Doctoral Dissertation Committees will need to submit a current curriculum vita (equivalent to an NIH Bio, approximately two pages long with the last three (3) years of scholarly activity included) with the committee appointment form to the College Dean or designee. This approval is in addition to the approval from their department chairperson. (Colleges and departments may institute additional requirements for membership on Doctoral Dissertation Committees.) Once approved, the original form and the approved Curriculum Vitae (CV) are placed in the student's file. An approved and current Form must be on file in the major/college before graduation may be certified. *Doctoral Dissertation Committee Forms* need to be processed as early in the major as possible, but no later than the semester prior to graduation.



Changes to Committee

Changes to a Doctoral Dissertation 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 acknowledgement and approval of the change by the removed member. Any non-faculty being added to a committee must submit a CV for approval. If a faculty member is being added as a Co-Major Professor, or if there is an appointment change to the Major Professor position, a CV must be included for the faculty member who is being added to that position. 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 major and college. An approved and current *Doctoral Dissertation Committee Form* must be on file before graduation may be certified.

Doctoral Qualifying Examination

As soon as the substantial majority of the course work is completed, the student must pass a written Qualifying Examination covering the subject matter in the major and related fields. This Examination may be supplemented by an oral examination. The Qualifying Exam must be taken 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 a minimum of two (2) hours of graduate credit in their discipline at the time they take the Qualifying Examination. If the Exam is taken between semesters, students must be enrolled for a minimum of two (2) hours of graduate credit in the semester before or following the Exam.

Admission to Candidacy

In order to be admitted to doctoral candidacy, students must meet the following requirements at USF:

- admission to a doctoral major
- appointment and approval of a Doctoral Committee,
- attainment of an overall and major Grade Point Average (GPA) of 3.00 at USF at the time of candidacy. All "I" and "M" grades, including "IF" and "MF", must be cleared before candidacy may be finalized.
- successful completion of a qualifying examination
- certification by the Doctoral Committee that the above qualifications have been successfully completed
- must meet enrollment requirements for completion of the exam and submission of the form (See *Enrollment Requirements*)

The Admission to Candidacy form should be submitted for approval during the semester that the Qualifying Exams were completed, but no later than the semester following the successful completion of the Exam. The form will be approved by the Dean of the College and forwarded to the Office of Graduate Studies for final approval. Doctoral Candidacy is effective in the semester following processing and approval by the Office of Graduate Studies. At this time, the student's status changes to 6C. For procedures and processing deadlines refer to the Office of Graduate Studies website at www.grad.usf.edu.

Once candidacy status is approved, students with approved candidacy are eligible to enroll in dissertation hours (7980) in the semester that immediately follows the semester in which the Candidacy form is submitted and approved. For example, students approved during the Fall approval window may enroll in the Spring. Students approved during the Spring approval window may enroll in the summer and students approved during the Summer approval window may enroll in the Fall. **Students may NOT enroll in dissertation hours prior to being admitted to doctoral candidacy.**

Each major has a required number of dissertation hours for completion of the degree. Departments, with College approval, may apply Directed Research hours toward the total number of dissertation hours required. Directed Research hours shall not exceed 50% of the dissertation hour requirement. No directed research hours will be converted to dissertation hours (i.e. a directed research course dropped



and a dissertation course added) prior to or during the approval window. *For more information, refer to Enrollment Requirements in the Academic Policies section.*

Dissertation

Dissertation requirements are for the academic degrees of Ph.D. and Ed.D., and for students in professional doctorate programs (e.g. DNP, DBA, Au.D., DrPH., DPT) who choose to complete a dissertation. Students in professional doctorate degree programs may choose to complete a doctoral project instead of a dissertation. Please contact the professional school for doctoral project requirements.

Dissertation Format

The University accepts the standard format for the discipline of the major. Formats must be consistently applied and follow national standards for the discipline. For the preliminary pages, which follow a standard University format, refer to the ETD website. <http://www.grad.usf.edu/ETD-res-main.php>

Directed Research

Directed Research hours taken with the (Co) Major Professor(s) prior to approval to doctoral candidacy by the Office of Graduate Studies may satisfy up to 50% of the dissertation hour requirement, with program approval.

Manuscript Processing Fee

USF Regulation USF4-0107, <https://usf.app.box.com/v/usfregulation40107>. Students participating in the thesis/dissertation process are required to pay a processing fee. More information is available on the website at <http://www.grad.usf.edu/ETD-res-main.php>

Doctoral Dissertation Defense (Final Oral Examination)

Scheduling and Announcement

After the Doctoral Dissertation Committee has determined that the final draft of the dissertation is suitable for presentation, the Committee will request the scheduling and announcement of the Dissertation Defense (also called Final Oral Examination or Oral Defense.) A copy of the announcement should be sent to the Office of Graduate Studies, preferably two weeks in advance of the defense date. The announcement must also be posted in a public forum for a minimum of twenty-four hours to comply with statute requirements for a public meeting. The College and Department may specify additional procedures for this process.

Attendance

It is desirable for all members of the final oral examination committee to be present physically during the entire examination. If this is impossible, video conferencing may be approved by the College Dean and the Office of Graduate Studies. If video conferencing is approved, the student, the Major Professor (or, if Co-Major Professors, at least one), and the Outside Chair for the defense must be physically present. Other faculty members and graduate students may physically or virtually attend the examination.

Video Conferencing



Graduate programs must adhere to the following if the final oral examination involves video conferencing. Departments can enforce stricter guidelines. Video conferencing may not be ideal in all circumstances.

Facilities and Support Requirements

The video conferencing room must allow the candidate and all members of the examination committee to see and hear one another during the entire examination. There must be appropriate software/hardware available for the transmission of any text, graphics, photographs, or writing referred to or generated during the examination.

Audio-only communications are not permitted.

Prior to the defense, the student must agree to the video conferencing set-up. The student and Major Professor must confirm in advance that the video conferencing setup is satisfactory. On the day of the defense, if the video conferencing capabilities differ significantly from the initial agreement as noted on the Request for Defense Form, then the student may cancel the examination without penalty.

Any technical support staff required to operate equipment must observe strict confidentiality.

The video conference must be scheduled for a three and a half hour time period to allow for any delays resulting from technical issues during the dissertation defense.

Should a technical failure arise, the Outside Chair in consultation with the Major Professor and other committee members will determine if the examination should continue. If the examination is cancelled, the examination will be rescheduled and there will be no penalty to the student.

All committee members must record their vote on the Successful Defense form. Off-site committee members must sign a copy of the Successful Defense form (completed within the College) and send it back to the Major Professor as soon as possible, but no later than a week after the defense date.

Doctoral Dissertation Defense Chair

The Doctoral Dissertation Defense (Final Oral Examination) shall be presided by

- an external committee member from outside the Department, School, or equivalent, hosting the doctoral major, but may be within the academic discipline.
OR,
- a non-committee member (a.k.a. Outside Chair), (Refer to the individual Program's Degree Requirements in the Graduate Catalog for information). If the Chair is from another institution, this individual must be approved for Affiliate Graduate Faculty status.

The Doctoral Dissertation Defense Chair's role includes overseeing the proceedings as well as serving as the student's advocate, by ensuring fairness of the process. Faculty holding joint, courtesy, or adjunct appointments in the degree-granting academic unit (i.e. Department or equivalent) cannot serve as the Defense Chair.

Procedures for Conducting the Doctoral Dissertation Defense (Final Oral Examination)

1. The Doctoral Dissertation defense (final oral examination) should be conducted within a timeline to allow for the student to make any necessary corrections following the defense and still meet the final copy deadline for turning in the Dissertation to the Office of Graduate Studies.
2. The presentation should be considered an important function in the Department and all graduate students and faculty be encouraged to attend.



3. The presentation and defense are open to the public and as such, must meet the requirements of the Sunshine Laws for the State of Florida. The Doctoral Dissertation Committee deliberation is not public.
4. The room selected for the examination should have adequate seating with an alternate room selected in case of problems.
5. It is required that all members of the Doctoral Dissertation Committee be present for the examination unless an absence is approved prior to the defense taking place by the Office of Graduate Studies Dean. In the event that a member cannot attend in person, participation may be permissible via video conference with approval from the Office of Graduate Studies. The student and Major Professor must be in attendance in person and may not participate via remote access. A minimum of three members, including the Major Professor is required to proceed with the defense. If an unforeseeable situation arises, that would prevent compliance with this requirement the Major Professor or Doctoral Dissertation Defense Chair should contact the Office of Graduate Studies for guidance and approval to proceed with the defense.
6. The length of the examination period will generally not exceed three hours. Throughout this time the Doctoral Dissertation Defense Chair is to be in charge of all proceedings and, ideally, is expected to play a balancing role between advocacy and contention.
7. The Doctoral Dissertation Defense Chair, at any time during the course of the examination, may request all visitors to leave.
8. **Presentation**
 - The Doctoral Dissertation Defense Chair should open the proceedings by introducing the candidate and the Doctoral Dissertation Committee.
 - The examination should begin with a presentation by the candidate designed to summarize the dissertation.
9. **Questions**

Following the presentation, the Defense may be moved to a different setting for the main examination. The College determines the order of the proceedings described below:

 - The examination will consist of questions about the research by the Doctoral Dissertation Defense Chair and the Doctoral Dissertation Committee. All committee members are expected to participate fully in questioning during the course of the examination and in the discussion of and decision on the result.
 - It is suggested that questioning should be limited to about 15 minutes for each Doctoral Dissertation Committee member with subsequent rounds of questioning as necessary.
 - Questions from the faculty-at-large and/or the public may be allowed following the presentation. It is suggested that questioning from the general audience be limited up to 5 minutes per person.
10. **Deliberations and Voting**

Following the completion of these proceedings, the Doctoral Dissertation Defense Chair

 - will ask all visitors and the candidate to leave and will reconvene the Doctoral Dissertation Committee only.
 - will preside over the deliberations and voting of the Committee (Note: if a non-committee member (Outside chair) is used he/she will not participate in the voting)
 - is responsible for tallying the votes and informing the candidate of the final decision. The voting is to be limited to "pass" and "fail" votes. *The vote of the Doctoral Dissertation Committee must be unanimous.* If unanimous agreement cannot be reached, the Doctoral Dissertation Defense Chair notifies the student's Department Chair (or appropriate equivalent) who will endeavor to resolve the dispute in an expedient fashion.
 - records the vote on the Successful Defense Form and conveys the decision of the Doctoral Dissertation Committee (Successful Defense Form) to the Department/College Graduate Office to be kept in the student's file.
11. **Approval of the Final Dissertation**

All committee members must approve the final version of the dissertation via the Certificate of Approval Form. If the Committee is unable to **unanimously** approve a final draft of the dissertation, the student's Department Chair and College Dean will work with the Doctoral Dissertation Committee to seek an equitable resolution.

Dissertation Final Submission Guidelines

Information on requirements for submission of the finished and approved manuscript copies is available online at the Thesis and Dissertation website at <http://www.grad.usf.edu/ETD-res-main.php>. Students who fail to submit the final copy of a dissertation by the posted submission deadline will not be considered for graduation. The student may be considered for graduation in the following semester and must therefore apply for the degree (graduation) by the posted deadline, enroll in a minimum of two (2) dissertation hours



for that subsequent semester, and meet the submission requirements as posted on the Thesis/Dissertation website. Only after the Office of Graduate Studies has approved the manuscript can the student be certified for the degree.

Mandatory Electronic Submission

Students are required to submit the dissertation in an electronic format (ETD). Requirements and procedures are available at the Office of Graduate Studies website at <http://www.grad.usf.edu/ETD-res-main.php>

Submission for Official Publication and Archiving

All theses/dissertations will be submitted to the Office of Graduate Studies designated System for official publication and archiving.

Changes after Publication

Once a dissertation is approved and accepted by the Office of Graduate Studies for publication, it cannot be changed.

Release of Dissertation 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" " (USF Policy 0-300: <https://usf.app.box.com/v/usfpolicy0-300>) 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..." (April Burke, "University Policies on Conflict of Interest and Delay of Publications," Report of the Clearinghouse on University-Industry Relations, Association of American Universities, February, 1985.)

To protect the University's primary goal from un-due 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, Dissertations will be released for worldwide access once submitted to and approved by the USF Office of Graduate Studies. In the event that a patent or copyright application provides reason to delay the release of the Dissertation, 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 dissertation.
3. Students should not be delayed in the final defense of their dissertations by agreements involving publication delays.

Duty to Disclose New Inventions and Works

USF 0-300 <https://usf.app.box.com/v/usfpolicy0-300> and USF 12.003 <https://usf.app.box.com/v/usfregulation12003>
For information about the requirements of this policy contact the Division of Patents and Licensing at (813) 974-0994.

Dissertation 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 dissertation courses to the Office of the Registrar when all grades are due at the end of the semester.

The Use of "Ph.D." in Credentials and Publication

Students may only use the credential of "Ph.D." after degree conferral is granted. It is inappropriate to use the credential until it is officially and formally granted. The use of the abbreviation "Ph.D." in university publications, correspondence, etc., including websites and other electronic media, shall be upper case "P", lower case "h" followed by a period, an upper case "D" and another period. It shall not be used in the format of all upper case letters without periods, as in "PHD".



Graduation and Postdoctoral Affairs

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.

The application for a graduate degree is online at <http://www.usf.edu/registrar/resources/graduation.aspx>

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 (e.g. be *In good standing*) as specified in the Policies and Degree Requirements sections of this publication, as well as any College and Major requirements for the degree.

Commencement

Graduate students **may not** participate in commencement exercises **until all requirements** for the degree sought have been fulfilled. Please check with the Commencement Office on your campus for more information:

Tampa: <https://www.usf.edu/system/commencement/>
St. Petersburg: <https://www.usfsp.edu/commencement/>
Sarasota-Manatee: <http://www.usfsm.edu/students/commencement.aspx>

Diplomas

Diplomas are mailed to the student's permanent address approximately six (6) weeks after commencement after the conclusion of the student's final semester. Students with a change of address need to fill out a change of address form at the Registrar's office/Registration and Records Office (St. Petersburg and Sarasota/Manatee).. Questions regarding diplomas and degree certification should be directed to:

Tampa Registrar's office at 974-2000
St. Petersburg Office of Registration and Records: 727-873-4645
Sarasota-Manatee Office of Registration and Records: 941-359-4330

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 on. The letter must include the student's university identification (U-ID) Number, name of major and official name of the degree. The Major Professor, the College



Dean (or designee), the Department Chair or Graduate Director (or designee), the Dean (or Designee) in the Office of Graduate Studies (Graduate Academic Advisor only in Sarasota), 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.grad.usf.edu/student-forms.php>

Posthumous Degrees or Degrees in Memoriam

Reference – USF Policy 10-047 - <https://usf.app.box.com/v/usfpolicy10-047>

Award of Posthumous Degrees

The University of South Florida institutions may award a posthumous master's, doctoral, or medical degree to a student who was in good academic standing at the time of his or her death and who had completed all critical requirements for the degree. 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 students are 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 degree requirements must have been satisfied as well. To award a thesis or dissertation degree, all courses must be completed as described above and the thesis/dissertation must be sufficiently complete to the satisfaction of the faculty so that certification of completion may be posted to the student's record.

Award of Degrees in Memoriam

USF institutions may award master's, doctoral, or medical degrees in memoriam to a student who was in good academic standing at the time of his or her death.

Procedures for Award of Posthumous Degrees or Degrees in Memoriam

Departmental Chairs, or appropriate faculty members, on their own initiative or upon request of a student's family, may recommend a posthumous, or an in memoriam degree, by forwarding the recommendation to the respective Dean of the appropriate college. If approved by the Dean, the request, accompanied by supporting documentation, will be forwarded to the Dean of U Graduate Studies (respective to the degree type at USF or to the Chief Academic Officer at USF St. Petersburg or USF Sarasota/Manatee for approval. If the Dean or Chief Academic Officer approves the recommendation, the institution's Office of the Registrar will be notified. Posthumous degrees and in memoriam Degrees may also be presented to the student's family in an appropriate setting, which may include the ceremony held in fall and spring terms. A posthumous degree may be awarded at a commencement ceremony.

Note:

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," "Doctor of Philosophy 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 academic record may be requested by the student through the Office of the Registrar/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 on the Office of the Registrar websites:



Tampa: <http://www.registrar.usf.edu/>

St. Petersburg: <http://www.usfsp.edu/registrar>

Sarasota: <http://www.usfsm.edu/students/registration/transcript-request.aspx>

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. Degree statements are posted approximately five weeks after the end of the student's final semester. Current term grades are posted approximately one week after the final exams end. If grades or degree certification for the current term are needed, clearly indicate that the transcript request is to be held for grades and/or degree posting.

Office of Postdoctoral Affairs

The Office of Postdoctoral Affairs (OPA) serves as an administrative and academic center of excellence for postdoctoral scholars, and ensures they have an exemplary professional and personal development experience while at USF. It fosters a robust postdoctoral community, provides opportunities to enhance the postdoctoral experience and future success of its constituents, and serves as a dedicated resource for postdoctoral scholars, faculty, and administrators.

Objectives of the OPA:

- Provide guidance to colleges and postdoctoral scholars throughout the hiring process.
- Establish, maintain, and evaluate postdoctoral policies.
- Build collaboration among postdoctoral scholars, colleges, and graduate students.
- Offer professional development workshops for postdoctoral scholars and their mentors.
- Maintain a detailed database of current and alumni postdoctoral scholars.
- Submit postdoctoral data for university, state, national, and international reports.
- Facilitate the development of a USF Postdoctoral Association.

For more information, please see <https://www.usf.edu/postdoctoral-affairs/>



Degree, Majors, and Concentrations

New graduate degree programs, majors and concentrations are continually under development. Check the website for recently approved curriculum and for information on which majors are currently accepting applications and which are currently closed for admission. For the most current list of authorized degrees programs, majors and concentrations, Accelerated Degree Programs, and Concurrent Degrees, go to <http://www.grad.usf.edu/majors>. As of the date of this publication, the University is authorized to offer over 50 different degrees with graduate majors offered as follows:

| | | | |
|-----|--|-----|---|
| 116 | Master's | 199 | Concentrations at the Master's level |
| 2 | Education Specialist | 15 | Concentrations at the Specialist level |
| 52 | Doctoral (Ph.D., Ed.D., Au.D., D.N.P., D.P.H., D.B.A.) | 89 | Concentrations at the Doctoral level |
| 3 | Professional doctoral (including M.D., D.P.T., PharmD) | 1 | Concentration at the Professional level |

USF Curriculum Definitions

– reference **USF 3.038 Academic Curricular Offerings** for definitions of **Degree Program, Major, Concentration, etc.**
<https://www.systemacademics.usf.edu/curriculum/definitions.php>

Other Offerings:

Accelerated Majors

Accelerated Majors allow academically qualified students to complete an undergraduate Bachelor's degree and a graduate degree (typically master's degree) on an accelerated timeline, graduating sooner than in traditional majors. Typically, students will complete a portion of the required graduate coursework while classified as an undergraduate student and have it count towards both degrees. As soon as the student completes the undergraduate degree requirements, the student is converted to graduate status, where the remaining graduate requirements are fulfilled. Refer to the policy in the Academic Policies section for more information. For specific curriculum requirements and to see how many hours are shared, refer to the Bachelor's/Master's Pathways section of the Graduate Catalog. The Application and Progression Forms are available online at: <http://www.grad.usf.edu/accelerated.php>

Concurrent Degree Options

Concurrent Degrees allow academically qualified students to complete two separate graduate degrees. For more information, refer to the Academic Policies. To view current options, go to the Concurrent Degrees section of the Graduate Catalog.



Bachelor's/Master's Pathways

Bachelor's/Master's Pathways allow academically qualified students to complete an undergraduate Bachelor's degree and a graduate degree (typically master's degree) on an accelerated timeline, graduating sooner than in traditional programs. Typically, students will complete a portion of the required graduate coursework while classified as an undergraduate student and have it count towards both degrees. As soon as the student completes the undergraduate degree requirements, the student is converted to graduate status, where the remaining graduate requirements are fulfilled. For more information review the Bachelor's/Master's Pathways Policy in the Academic Policies section.

General requirements:

- 15 Credit Hours must be completed in the undergraduate major before a student may apply
- 3.33 GPA overall and a 3.50 GPA in the undergraduate major
- Must meet admission requirements for graduate major to progress to the graduate level
- Have met with Undergraduate Advisor and Graduate Director to develop an approved Program of Study, including plan for advising and notation for financial aid impact
- May share up to 12 Credit Hours of structured graduate coursework
- Total combine credits must be at least 150 credit Credit Hours (120 bachelor's and 30 master's) after sharing coursework.
- B (3.00) required in each graduate course taken as part of the shared credits
- Degrees are conferred sequentially (bachelor's should be conferred as soon as requirements are met)
- Students pay graduate tuition when taking graduate courses.

The shared requirements for each Combined Bachelor/Master's Pathway are listed below alphabetically by graduate major.

View the full list of Bachelor's/Master's Pathways listed by Undergraduate Major or view the full list Bachelor's/Master's Pathways listed by Graduate Major . For information on the admission and curriculum requirements for each major, refer to the listing in their respective Catalogs. Contact the Department(s) offering the Bachelor's/Master's Pathway for more information and advising.



Bachelor's/Master's Pathways

*Listed Alphabetically by Graduate Major.
For faster searching, type Control F and enter the major name.*

ADVERTISING M.S.

Advertising B.S. (120 Credit Hours) to Advertising M.S. (36 Credit Hours)

Shared: 6 Credit Hours

Total Combined after sharing: 150 Credit Hours

Grade Policy

Students who receive lower than a "B" (3.00) in a graduate course must re-take the course to obtain a minimum grade of "B."

Shared– 6 Credit Hours

- ADV 6305 Advertising Media Strategy satisfies ADV 3300 Advertising Media Strategy
- ADV 6602 Advanced Advertising Management satisfies ADV 4800 Advertising Management

ART HISTORY M.A.

Art History B.A. (120 Credit Hours) to Art History M.A. (42 Credit Hours)

Shared: 12 Credit Hours

Total Combined after sharing: 150 Credit Hours

Admission

- must have completed at least 24 Credit Hours in the Art History undergraduate major.
- Admission is by faculty invitation. Students will be contacted by faculty and invited to apply, and to provide documentation affirming satisfaction of minimum requirements.

Shared – 12 Credit Hours

12 Credit Hours of graduate courses in art history (5000-level or above) satisfies:

- 6 Credit Hours of Art History Survey (ARH 4170, ARH 5200, ARH 4301, ARH 4310, ARH 4312, ARH 4333, ARH 4350, ARH 4430, ARH 4450, ARH 4475C, ARH 4520, ARH 4530, ARH 4571, ARH 4930)
- And 6 Credit Hours of ARH 4800 Critical Studies in Art History

BIOMEDICAL ENGINEERING M.S.B.E.

**Biomedical Engineering B.S.B.E. (126 Credit Hours) to
Biomedical Engineering M.S.B.E. (30 Credit Hours)**



Shared: 6 Credit Hours
Total Combined after sharing: 150 Credit Hours

Grade Policy

Students may receive one grade below a "B" (B-, C+, C) in one of the shared courses. The student must still maintain a 3.00 GPA to remain in good standing in the BMS master's program.

Shared– 6 Credit Hours

ME Elective I (3 Credits) replaced by GMS 6605
BMS Elective II (3 Credits) replaced by PHC 6051

Chemical Engineering B.S.C.H. (130 Credit Hours) to Biomedical Engineering M.S.B.E. (30 Credit Hours)

Shared: 9 Credit Hours
Total Combined after sharing: 151 Credit Hours

Shared– 9 Credit Hours

Three (3) of the following five (5) core graduate courses replace nine (9) credit Hours of upper-level departmental electives in Chemical Engineering:

BME 6000 Biomedical Engineering Credit(s): 3
BME 6931 Selected Topics in Biomedical Engineering Credit(s): 1-3 (II)

GMS 6440 Basic Medical Physiology Credit(s): 3
OR BME 6410 Engineering Physiology Credit(s): 3

GMS 6605 Basic Medical Anatomy Credit(s): 3
PHC 6051 Biostatistics II Credit(s): 3

Industrial Engineering B.S.I.E. (128 Credit Hours) to Biomedical Engineering M.S.B.E. (30 Credit Hours)

Shared: 6 Credit Hours
Total Combined after sharing: 152 Credit Hours

Shared – 6 Credit Hours

Two (2) of the following five (5) core graduate courses replace six (6) credit Hours of upper-level departmental (Technical) electives:

BME 6000 Biomedical Engineering Credit(s): 3
BME 6931 Selected Topics in Biomedical Engineering Credit(s): 1-3 (II)

GMS 6440 Basic Medical Physiology Credit(s): 3
OR BME 6410 Engineering Physiology Credit(s): 3



GMS 6605 Basic Medical Anatomy Credit(s): 3
PHC 6051 Biostatistics II Credit(s): 3

CHEMICAL ENGINEERING M.S.C.H.

Chemical Engineering B.S.C.H. (131 Credit Hours) to Chemical Engineering M.S.C.H. (30 Credit Hours)

Shared: 6 Credit Hours
Total Combined after sharing: 155 Credit Hours

Shared - 6 Credit Hours

Two (2) ECH courses (6 Credit Hours) at the 6000-level to count toward 6 Credit hours of upper-level Chemical Engineering electives.

CIVIL ENGINEERING M.S.C.E.

Civil Engineering B.S.C.E. (131 Credit Hours) to Civil Engineering M.S.C.E. (30 Credit Hours)

Shared: 6 Credit Hours
Total Combined after sharing: 155 Credit Hours

Shared Courses - 6 Credit Hours

Students may choose two (2) of the following five (5) 6000-level course options to meet the upper-level undergraduate Technical elective requirement:

- Any 6000-level TTE prefixed course (3 Credits) satisfies TTE 4005 Transportation Engineering II
- Any 6000-level CEG prefixed course (3 Credits) satisfies CEG 4012 Geotechnical Engineering II
- ENV 6564 Environmental Engineering Design satisfies CWR 4812 Capstone Water Resources/Environmental Engineering Design
- Any 6000-level CEG, TTE, CES, CGN or CWR course (3 Credits) satisfies Free Technical elective
- Any 6000-level CEG, TTE, CES, CGN or CWR course (3 Credits) satisfies Free Technical elective

Computer Science, M.S.C.S.

Computer Science B.S.C.S. (120 Credit Hours) to Computer Science M.S.C.S. (30 Credit Hours)

Shared: 6 Credit Hours
Total Combined after sharing: 144 Credit Hours



Shared Courses - 6 Credit Hours

Two of the following three core graduate courses replace six credit hours of upper-level departmental (technical) electives, including Independent Study, Supervised Research, and Industry Internship.

COP 6611 Operating Systems
COT 6405 Introduction to the Theory of Algorithms
EEL 6764 Principles of Computer Architecture

Electrical Engineering M.S.E.E.

Electrical Engineering B.S.E.E. (128 Credit Hours) to Electrical Engineering M.S.E.E. (30 Credit Hours)

Shared: 6 Credit Hours
Total Combined after sharing: 152 Credit Hours

Shared - 6 Credit Hours

Upper division EE elective courses (2) typically taken Semesters 7 and 8 will be replaced by EE MS program core courses chosen from the list below:

- EEE 6277 Bioelectronics
- EEE 6282 Biomedical Systems and Pattern Recognition
- EEE 6514 Biomedical Image Processing
- EEE 6217 Biomedical Optical Spectroscopy and Imaging
- EEE 6276 MEMS I/Chem BioSensors
- EEE 6412 System on a Chip
- EEL 6534 Digital Communication Systems
- EEE 6502 Digital Signal Processing I
- EEL 6614 Systems & Control Theory I
- EEL 6728 Introduction to VHDL
- EEL 6729 Rapid System Prototyping
- EEL 6227 Electric Machines and Drives
- EEE 6353 Semiconductor Device Theory I
- EEL 6787 Data Networks, Systems and Security
- EEL 5594L Wireless Circuits and Systems Laboratory
- EEL 6592 Wireless Communications System Laboratory
- EEL 6486 Electromagnetic Field Theory

Additional/alternative courses may be selected from department graduate track listings considering course pre-requisites in consultation with respective track supervisory faculty.

ENGINEERING MANAGEMENT M.S.E.M.



Chemical Engineering B.S.C.E. (131 Credit Hours) to Engineering Management M.S.E.M. (30 Credit Hours)

Shared: 6 Credit Hours

Total Combined after sharing: 155 Credit Hours

Shared – 6 Credit Hours

The following courses will satisfy six (6) Credit Hours of Industrial Engineering elective coursework:

- EIN 5182 Principles of Engineering Management Credit(s):3
- EIN 6386 Management of Technological Change Credit(s): 3

Civil Engineering B.S.C.E. (131 Credit Hours) to Engineering Management M.S.E.M. (30 Credit Hours)

Approved 201708

Shared: 6 Credit Hours

Total Combined after sharing: 155 Credit Hours

Shared – 6 Credit Hours

Students can take two approved EGX-prefixed courses at the 6000-level that meet the upper-level Technical elective requirement.

Electrical Engineering B.S.E.E. (128 Credit Hours) to Engineering Management M.S.E.M. (30 Credit Hours)

Shared: 3 Credit Hours

Total Combined after sharing: 155 Credit Hours

Shared – 3 Credit Hours

Students can take one approved EEL-prefixed courses at the 6000-level that meet the upper-level Technical elective requirement.

Industrial Engineering B.S.I.E. (128 Credit Hours) to Engineering Management M.S.E.M. (30 Credit Hours)

Shared: 6 Credit Hours

Total Combined after sharing: 152 Credit Hours

Shared – 6 Credit Hours

The following courses will satisfy six (6) Credit Hours of Industrial Engineering elective coursework:

- EIN 5182 Principles of Engineering Management Credit(s):3
- EIN 6386 Management of Technological Change Credit(s): 3



ENGLISH M.A.

English with a Concentration in Literary Studies B.A. (120 Credit Hours) to English with a Concentration in Literature M.A. (36 Credit Hours)

Shared: 3 Credit Hours

Total Combined after sharing: 153

Grade Policy

No grade lower than a B will be accepted in a graduate course in this program. Students earning less than a B in a graduate course must retake the course and earn a B or higher, to apply it to their graduate degree.

Admission

- Must have completed ENG 3014 as part of the 15 Credit Hours of undergraduate coursework required for admission.
- Application may be made by any student who has satisfied the minimum requirements.
- Applications should be addressed to the Department Undergraduate and Graduate Directors and should include a statement by the student affirming satisfaction of minimum requirements (with supporting documentation) and a letter of recommendation from a Literary Studies faculty member familiar with the student's academic performance.

Shared – 3 Credit Hours

Three (3) Credit Hours of graduate credit may be shared as follows:

ENG 6018 Studies in Criticism and Theory I or ENG 6019 Studies in Criticism and Theory II will satisfy the ENG 4013 Literary Criticism requirement.

ENVIRONMENTAL ENGINEERING M.S.E.V.

Civil Engineering B.S.C.E. (131 Credit Hours) to Environmental Engineering M.S.E.V. (30 Credit Hours)

Shared: 6 Credit Hours

Total Combined after sharing: 155

Shared – 6 Credit Hours

Students may choose two (2) of the following three (3) 6000-level course options to meet the upper-level undergraduate Technical elective requirement:

- ENV 6564 Environmental Engineering Design satisfies CWR 4812 Capstone Water Resources/Environmental Design
- Any (3credit) 6000-level ENV course satisfies a Free Technical elective.
- Any (3credit) 6000-level ENV course satisfies a Free Technical elective.

INFORMATION TECHNOLOGY M.S.I.T.



Information Technology B.S.I.T. (120 Credit Hours) to Information Technology M.S.I.T. (30 Credit Hours)

Shared: 6 Credit Hours

Total Combined after sharing: 144 Credit Hours

Shared – 6 Credit Hours

Students can take two approved courses at the 6000-level that meet the upper level Technical elective requirement.

LIBERAL ARTS (FILM STUDIES CONCENTRATION) M.A.

Humanities & Cultural Studies: Film & Media Studies Concentration B.A. (120 Credit hours) to Liberal Arts: Film Studies Concentration M.A. (33 Credit Hours)

Shared: 12 Credit Hours

Total Combined after sharing: 141 Credit Hours

Admission

Must have completed FIL 1002 with a B or higher as part of the 15 Credit Hours of undergraduate coursework required for admission.

Shared – 12 Credit Hours

- HUM 6584 Global Cinema and New Media since 1960 satisfies FIL 3077
- HUM 6586 Film Theory or HUM 6801 Theories and Methods of Cultural Studies satisfies HUM 4581
- An additional six (6) graduate Credit Hours may be earned by taking any course offered by HCS that is at the 6000 level.

MATERIAL SCIENCE AND ENGINEERING M.S.M.S.E.

Chemical Engineering B.S.C.H. (131 Credit Hours) to Materials Science and Engineering M.S.M.S.E. (30 Credit Hours)

Shared: 6 Credit Hours

Total Combined after sharing: 155 Credit Hours

Shared – 6 Credit Hours

Students can take two (2) approved ECH-prefixed courses at the 6000-level that meet the upper-level Technical elective requirements.

Civil Engineering B.S.C.E. (131 Credit Hours) to Materials Science and Engineering M.S.M.S.E. (30 Credit Hours)



Shared: 6 Credit Hours
Total Combined after sharing: 155 Credit Hours

Shared – 6 Credit Hours

Students can take two approved ECE-prefixed courses at the 6000-level that meet the upper-level Technical elective requirement.

Electrical Engineering B.S.E.E. (128 Credit Hours) to Materials Science and Engineering M.S.M.S.E. (30 Credit Hours)

Shared: 3 Credit Hours
Total Combined after sharing: 155 Credit Hours

Shared – 3 Credit Hours

Students can take approved EEL-prefixed courses at the 6000-level that meet the upper-level Technical elective requirement.

MEDICINE M.D.

Honors College – Undergraduate Bachelor's (B.S.) -120 Credit Hours to Medicine M.D. (4-year Professional Program)

Shared: 12 Credit Hours

PHARMACY Pharm.D.

Biomedical Sciences B.S. (120 Credit Hours) to Pharmacy Pharm.D. (148 Credit Hours)

Shared: 10 Credit Hours
Total Combined after sharing: 258 Credit Hours

Requires students to complete the first year (36 credits) of the PharmD during their senior year of their B.S. All BMS students will complete FLENT and Summer Enrollment requirements as well as graduation requirements listed in the Undergraduate Catalog.

Admission

For initial eligibility a student must:



- be admitted to the Honors College as a first-year student (at least a 1360 CR+M SAT or 29 ACT and 3.80 High School weighted GPA as calculated by USF's Office of Admissions;
- hold US citizenship or permanent resident status.

Shared – 10 Credit Hours

According to the BOG Articulation Regulation 6A-10.030; earn a minimum of 48 semester Credit Hours of upper-level work (courses numbered 3000 and above), therefore, the B.S. in Biomedical Sciences students will take up to 21 credits of additional 3000+ level coursework in addition to their required major and exit courses listed below. Out of these 21 credits, up to 10 credits will be shared with the Pharm.D.. program. The shared courses are listed below:

- PHA 6451 Clinical Biochemistry Credit(s): 2
- PHA 6792C Drug Information/Literature Evaluation Credit(s): 2
- PHA 6577 Biochemical and Molecular Principles of Drug Action Credit(s): 4
- PHA 6755 Medical Microbiology and Immunology Credit(s):2

Non-medical Community Service Volunteering:

Completion of a minimum of 60 contact Credit Hours of volunteering is required. Community service is defined as involvement in a service activity without receiving monetary compensation. Service performed as part of employment or a service learning course will NOT satisfy this requirement. This requirement is must be completed by the end of the second year. Contact the College of Pharmacy for application requirements.

Conferring of BS Degree (fourth year; first professional year of Pharmacy)

Students must successfully complete all requirements of the Doctor of Pharmacy curriculum to graduate. Successful completion of the academic program of study contained within the first professional pharmacy year is required for the completion of the bachelor's degree in the accelerated (3+4) program and to continue in the pharmacy program.

PUBLIC HEALTH M.P.H.

Public Health MPH (42 Credit Hours) to Honors College – Undergraduate Bachelor's BS (120 Credit Hours)

Shared: 12 Credit Hours

Total Combined after sharing: 150 Credit Hours

Shared

Fast-track program.



Bachelor's/Master's Pathways By Undergraduate Major

The following lists the Bachelor's/Master's Pathways by Undergraduate Major. To view the requirements, go to the Bachelor's/Master's Pathways page.

| Undergraduate Major | Graduate Major | Shared | Total Combined after Sharing |
|-------------------------------|---|-----------------|------------------------------|
| Advertising (BS) | Advertising (MS) | 6 Credit Hours | 150 Credit Hours |
| Art History (BA) | Art History (MA) | 12 Credit Hours | 150 Credit Hours |
| Biomedical Engineering (BSBE) | Biomedical Engineering (MSBE) | 6 Credit Hours | 150 Credit Hours |
| Biomedical Sciences (BS) | Pharmacy (PharmD) | 10 Credit Hours | Prof Prog |
| Chemical Engineering (BSCH) | Biomedical Engineering (MSBE) | 9 Credit Hours | 151 Credit Hours |
| Chemical Engineering (BSCH) | Chemical Engineering (MSCH) | 6 Credit Hours | 155 Credit Hours |
| Chemical Engineering (BSCH) | Engineering Management (MSEM) | 6 Credit Hours | 155 Credit Hours |
| Chemical Engineering (BSCH) | Materials Science and Engineering (MSMSE) | 6 Credit Hours | 155 Credit Hours |
| Civil Engineering (BSCE) | Civil Engineering (MSCE) | 6 Credit Hours | 155 Credit Hours |
| Civil Engineering (BSCE) | Engineering Management (MSEM) | 6 Credit Hours | 155 Credit Hours |
| Civil Engineering (BSCE) | Environmental Engineering (MSEV) | 6 Credit Hours | 155 Credit Hours |
| Civil Engineering (BSCE) | Materials Science and Engineering (MSMSE) | 6 Credit Hours | 155 Credit Hours |
| Computer Science (BSCS) | Computer Science (MSCS) | 6 Credit Hours | 144 Credit Hours |



| | | | |
|---|---|-----------------|------------------|
| Electrical Engineering (BSEE) | Electrical Engineering (MSEE) | 6 Credit Hours | 152 Credit Hours |
| Electrical Engineering (BSEE) | Engineering Management (MSEM) | 6 Credit Hours | 152 Credit Hours |
| Electrical Engineering (BSEE) | Materials Science and Engineering (MSMSE) | 6 Credit Hours | 152 Credit Hours |
| English (Literary Studies) (BA) | English (MA) | 3 Credit Hours | 153 Credit Hours |
| Honors College (Undergraduate in a BS) | Medicine (MD) | 12 Credit Hours | Prof Program |
| Honors College (Public Health BS) | Public Health (MPH) - Fast-track | 12 Credit Hours | 150 Credit Hours |
| Humanities and Cultural Studies (Film & New Media Studies) (BA) | Liberal Arts (Film Studies) (MA) | 12 Credit Hours | 141 Credit Hours |
| Industrial Engineering (BSIE) | Biomedical Engineering (MSBE) | 6 Credit Hours | 152 Credit Hours |
| Industrial Engineering (BSIE) | Engineering Management (MSEM) | 6 Credit Hours | 152 Credit Hours |
| Information Technology (BSIT) | Information Technology (MSIT) | 6 Credit Hours | 144 Credit Hours |



Bachelor's/Master's Pathways By Graduate Major

The following lists Bachelor's/Master's Pathways by graduate major. To view the requirements go to the Bachelor's/Master's Pathways page.

| Graduate Major | Undergraduate Major | Shared Hours | Total Hours after sharing |
|-------------------------------|-------------------------------|-----------------|---------------------------|
| Advertising (MS) | Advertising (BS) | 6 Credit Hours | 150 Credit Hours |
| Art History (MA) | Art History (BA) | 12 Credit Hours | 150 Credit Hours |
| Biomedical Engineering (MSBE) | Biomedical Engineering (BSBE) | 6 Credit Hours | 150 Credit Hours |
| Biomedical Engineering (MSBE) | Chemical Engineering (BSCH) | 9 Credit Hours | 151 Credit Hours |
| Biomedical Engineering (MSBE) | Industrial Engineering (BSIE) | 6 Credit Hours | 152 Credit Hours |
| Chemical Engineering (MSCH) | Chemical Engineering (BSCH) | 6 Credit Hours | 155 Credit Hours |
| Civil Engineering (MSCE) | Civil Engineering (BSCE) | 6 Credit Hours | 155 Credit Hours |
| Computer Science (MSCS) | Computer Science (BSCS) | 6 Credit Hours | 144 Credit Hours |
| Electrical Engineering (MSEE) | Electrical Engineering (BSEE) | 6 Credit Hours | 152 Credit Hours |
| Engineering Management (MSEM) | Chemical Engineering (BSCH) | 6 Credit Hours | 155 Credit Hours |
| Engineering Management (MSEM) | Civil Engineering (BSCE) | 6 Credit Hours | 155 Credit Hours |
| Engineering Management (MSEM) | Electrical Engineering (BSEE) | 6 Credit Hours | 152 Credit Hours |
| Engineering Management (MSEM) | Industrial Engineering (BSIE) | 6 Credit Hours | 152 Credit Hours |



| | | | |
|---|---|-----------------|------------------|
| English (MA) | English (Literary Studies) (BA) | 3 Credit Hours | 153 Credit Hours |
| Environmental Engineering (MSEV) | Civil Engineering (BSCE) | 6 Credit Hours | 155 Credit Hours |
| Information Technology (MSIT) | Information Technology (BSIT) | 6 Credit Hours | 144 Credit Hours |
| Liberal Arts (Film Studies) (MA) | Humanities and Cultural Studies (Film & New Media Studies) (BA) | 12 Credit Hours | 141 Credit Hours |
| Materials Science and Engineering (MSMSE) | Chemical Engineering (BSCH) | 6 Credit Hours | 155 Credit Hours |
| Materials Science and Engineering (MSMSE) | Civil Engineering (BSCE) | 6 Credit Hours | 155 Credit Hours |
| Materials Science and Engineering (MSMSE) | Electrical Engineering (BSEE) | 6 Credit Hours | 152 Credit Hours |
| Medicine (MD) | Honors College (BS) | 12 Credit Hours | Prof Program |
| Pharmacy (PharmD) | Biomedical Sciences (BS) | 10 Credit Hours | Prof Program |
| Public Health (MPH) - Fast-track | Public Health/Honors College (BS) | 12 Credit Hours | 150 Credit Hours |



Concurrent Degrees

Concurrent degrees allow a student to pursue two majors simultaneously and share between 0%-15% of the total combined minimum credit hours. Only structured graduate coursework may be shared. Students must be in good standing at the time of application to a Concurrent Degree. Refer to the Concurrent Degree Policy in the Academic Policies section for the full listing of requirements. the Concurrent Degree application is online at: <https://www.usf.edu/graduate-studies/documents/usf-graduate-studies-application-for-concurrent-degrees-fillable.pdf>

Graduate Majors with a Concurrent Degree Option

Click on the Concurrent Degree of interest to view requirements.

Applied Anthropology, M.A.

Applied Anthropology M.A. and Public Health, M.P.H.

Applied Anthropology M.A. and Public Health, Ph.D.

Applied Anthropology Ph.D.

Applied Anthropology Ph.D. and Public Health, M.P.H.

Audiology, Au.D.

Audiology Au.D. and Communication Sciences and Disorders, Ph.D.

Biomedical Engineering, M.S.B.E.

Biomedical Engineering, M.S.B.E. and Entrepreneurship in Applied Technologies, M.S.

Biomedical Engineering Ph.D.

Biomedical Engineering Ph.D. and Medicine, M.D.

Biotechnology, M.S.B.

Biotechnology, M.S.B. and Entrepreneurship in Applied Technologies, M.S.

Business Administration, M.B.A.

Business Administration, M.B.A. and Medicine, M.D.

Business Administration, M.B.A. and Pharmacy, Pharm.D.

Business Administration, M.B.A. and Sport and Entertainment Management, M.S.

Communication Sciences and Disorders, Ph.D.

Communication Sciences and Disorders, Ph.D. and Audiology, Au.D.

Entrepreneurship in Applied Technologies, M.S.

Entrepreneurship in Applied Technologies, M.S. and Biomedical Engineering, M.S.B.E.

Entrepreneurship in Applied Technologies, M.S. and Biotechnology, M.S.B.

Entrepreneurship in Applied Technologies, M.S. and Global Sustainability, M.A.

French, M.A.

French, M.A. and Linguistics: English as a Second Language, M.A.

Global Sustainability, M.A.

Global Sustainability, M.A. and Entrepreneurship in Applied Technologies, M.S.



Health Administration, M.H.A.
Health Administration, M.H.A. and Public Health, M.P.H.

Linguistics: English as a Second Language, M.A.
Linguistics: English as a Second Language, M.A. and French, M.A.
Linguistics: English as a Second Language, M.A. and Spanish, M.A.

Medical Sciences, Ph.D.
Medical Sciences, Ph.D. and Medicine, M.D.

Medicine, M.D.
Medicine, M.D. and Biomedical Engineering, Ph.D.
Medicine, M.D. and Business Administration, M.B.A.
Medicine, M.D. and Medical Sciences, Ph.D.
Medicine, M.D. and Law, J.D. (Stetson)
Medicine, M.D. and Public Health, M.P.H.

Nursing, M.S.N.
Nursing, M.S.N. and Public Health, M.P.H.

Pharmaceutical Nanotechnology, M.S.
Pharmaceutical Nanotechnology, M.S. and Pharmacy, Pharm.D.

Pharmacy, Pharm.D.
Pharmacy, Pharm.D. and Pharmaceutical Nanotechnology, M.S.
Pharmacy, Pharm.D. and Business Administration, M.B.A.
Pharmacy, Pharm.D. and Public Health, M.P.H.

Public Health, M.P.H.

Public Health, M.P.H. and Applied Anthropology, M.A.
Public Health, M.P.H. and Applied Anthropology, Ph.D.
Public Health, M.P.H. and Health Administration, M.H.A.
Public Health, M.P.H. and Medicine, M.D.
Public Health, M.P.H. and Nursing, M.S.N.
Public Health, M.P.H. and Pharmacy, Pharm.D.
Public Health, M.P.H. and Social Work, M.S.W.

Public Health, Ph.D.
Public Health, Ph.D. and Applied Anthropology, M.A.

Social Work, M.S.W.
Social Work, M.S.W. and Public Health, M.P.H.

Spanish, M.A.
Spanish, M.A. and Linguistics: English as a Second Language, M.A.

Sport and Entertainment Management, M.S.
Sport and Entertainment Management, M.S. and Business Administration, M.B.A.

Concurrent Degree Requirements



The coursework that is approved to be shared and apply toward both degrees is listed below. For all other curriculum requirements, including Thesis/non-Thesis, Internship, Comprehensive Examination, etc., refer to the Catalog listing for that major.

Anthropology, M.A. and Public Health, M.P.H.

Applied Anthropology (APA) – 34 Credit Hours

Bio-cultural Medical Anthropology (BCM) Concentration

Public Health (MPH) – 42 Credit Hours

Epidemiology (EPY), Maternal and Child Health (PMC), Public Health Education (PHN), Global Health Practice (GLO) Concentrations

Approved 201205

Total minimum hours combined: 76 Credit Hours

Shared – 12 Credit Hours

Total hours combined after sharing – 64 Credit Hours

Admission

In choosing which major to apply to first, students should take into consideration the following: major requirements differ between Anthropology and Public Health; the student's interests and future career plans. Concurrent degree students in Anthropology select a track and an optional concentration in Bio-Cultural Medical Anthropology. Concurrent degree students in Public Health select one of the above concentrations.

Shared – 12 Credit Hours

In consultation with their major advisors, students will select two courses as electives in Anthropology and two courses as electives in Public Health. The two courses in Public Health will be selected from a concentration listed above. The two courses in Anthropology will be selected from electives. The student may choose from the following list of courses. Other courses may be selected in consultation with the advisor.

Anthropology

- ANG 6585 Theories in Applied Bioanthropology Credit Hours: 3
- ANG 6469 Selected Topics in Medical Anthropology Credit Hours: 3
- ANG 6570 Nutritional Assessment Credit Hours: 3
- ANG 6730 Socio Cultural Aspects of HIV/AIDS Credit Hours: 3
- ANG 6733 Issues in Migrant Health Credit Hours: 3
- ANG 6735 Reproductive Health Credit Hours: 3
- ANG 6533 Anthropology of Human Growth and Development Credit Hours: 3
- ANG 6731 Health and Disasters Credit Hours: 3
- ANG 6732 Global Health from an Anthropological Perspective Credit Hours: 3

Public Health

- PHC 6053 Categorical Data Analysis Credit Hours: 3
- PHC 6701 Computer Applications for Public Health Researchers Credit Hours: 3
- PHC 6764 Global Health Principles and Contemporary Issues Credit Hours: 3
- PHC 6761 Global Health Assessment Strategies Credit Hours: 3
- PHC 6505 Program Planning in Community Health Credit Hours: 3
- PHC 6412 Health Disparities and Social Determinants Credit Hours: 3
- PHC 6725 Focus Group Research Strategies Credit Hours: 3
- PHC 6530 Issues and Concepts in Maternal and Child Health Credit Hours: 3
- PHC 6532 Women's' Health Issues in Public Health Credit Hours: 3

Anthropology, M.A. - Public Health, Ph.D.



Applied Anthropology (APA) - 34 Credit Hours

Biocultural Medical Anthropology (BCM) Concentration

Public Health (PPH)- 55 Credit Hours Post-Master's

Community and Family Health (CFH), Epidemiology (EPY), Global Communicable Disease (TCD) Concentrations

Approved 201205

Total minimum hours combined: 89 Credit Hours

Shared – 12 Credit Hours

Total hours combined after sharing – 77 Credit Hours

Admission

In choosing which major to apply to first, students should take into consideration the following: major requirements differ between Anthropology and Public Health; the student's interests and future career plans. Concurrent degree students in Anthropology select a track and an optional concentration in Bio-Cultural Medical Anthropology. Concurrent degree students in Public Health select one of the above concentrations.

Shared - 12 Credit Hours

In consultation with their major advisors, students will select two courses as electives in Anthropology and two courses as electives in Public Health. The two courses in Public Health will be selected from a concentration listed above. The two courses in Anthropology will be selected from electives. The student may choose from the following list of courses. Other courses may be selected in consultation with the advisor.

Anthropology

- ANG 6585 Theories in Applied Bioanthropology Credit Hours: 3
- ANG 6469 Selected Topics in Medical Anthropology Credit Hours: 3
- ANG 6570 Nutritional Assessment Credit Hours: 3
- ANG 6730 Socio Cultural Aspects of HIV/AIDS Credit Hours: 3
- ANG 6733 Issues in Migrant Health Credit Hours: 3
- ANG 6735 Reproductive Health Credit Hours: 3
- ANG 6533 Anthropology of Human Growth and Development Credit Hours: 3
- ANG 6731 Health and Disasters Credit Hours: 3
- ANG 6732 Global Health from an Anthropological Perspective Credit Hours: 3

Public Health

- PHC 6053 Categorical Data Analysis Credit Hours: 3
- PHC 6701 Computer Applications for Public Health Researchers Credit Hours: 3
- PHC 6764 Global Health Principles and Contemporary Issues Credit Hours: 3
- PHC 6761 Global Health Assessment Strategies Credit Hours: 3
- PHC 6505 Program Planning in Community Health Credit Hours: 3
- PHC 6412 Health Disparities and Social Determinants Credit Hours: 3
- PHC 6725 Focus Group Research Strategies Credit Hours: 3
- PHC 6530 Issues and Concepts in Maternal and Child Health Credit Hours: 3
- PHC 6532 Women's' Health Issues in Public Health Credit Hours: 3

Anthropology, Ph.D. - Public Health, M.P.H.

Applied Anthropology (APA) – 42 Credit Hours Post-Master's

Biocultural Medical Anthropology (BCM) Concentration

Public Health (MPH) – 42 Credit Hours

Epidemiology (EPY), Maternal and Child Health (PMC), Public Health Education (PHN), Global Health Practice (GLO) Concentrations



Approved 201205
Total hours combined: 84 Credit Hours
Shared – 12 Credit Hours
Total hours combined after sharing – 72 Credit Hours

Admission

In choosing which major to apply to first, students should take into consideration the following: admission requirements differ in Anthropology and Public Health, student interests and future career plans. Concurrent degree students in Anthropology select a track and an optional concentration in Bio-Cultural Medical Anthropology. Concurrent degree students in Public Health select one of the above concentrations.

Shared - 12 Credit Hours

In consultation with their major advisors, students will select two courses as electives in Anthropology and two courses as electives in Public Health. The two courses in Public Health will be selected from a concentration listed above. The two courses in Anthropology will be selected from electives. The student may choose from the following list of courses. Other courses may be selected in consultation with the advisor.

Anthropology

- ANG 6585 Theories in Applied Bioanthropology Credit Hours: 3
- ANG 6469 Selected Topics in Medical Anthropology Credit Hours: 3
- ANG 6570 Nutritional Assessment Credit Hours: 3
- ANG 6730 Socio Cultural Aspects of HIV/AIDS Credit Hours: 3
- ANG 6733 Issues in Migrant Health Credit Hours: 3
- ANG 6735 Reproductive Health Credit Hours: 3
- ANG 6533 Anthropology of Human Growth and Development Credit Hours: 3
- ANG 6731 Health and Disasters Credit Hours: 3
- ANG 6732 Global Health from an Anthropological Perspective Credit Hours: 3

Public Health

- PHC 6053 Categorical Data Analysis Credit Hours: 3
- PHC 6701 Computer Applications for Public Health Researchers Credit Hours: 3
- PHC 6764 Global Health Principles and Contemporary Issues Credit Hours: 3
- PHC 6761 Global Health Assessment Strategies Credit Hours: 3
- PHC 6505 Program Planning in Community Health Credit Hours: 3
- PHC 6412 Health Disparities and Social Determinants Credit Hours: 3
- PHC 6725 Focus Group Research Strategies Credit Hours: 3
- PHC 6530 Issues and Concepts in Maternal and Child Health Credit Hours: 3
- PHC 6532 Women's' Health Issues in Public Health Credit Hours: 3

Audiology, Au.D. – Communication Sciences and Disorders, Ph.D.

Audiology (AYD) – 120 Credit Hours

Communication Sciences and Disorders (CSD) - 42 Credit Hours (post-master's)

Approved 200601
Total hours combined: 162 Credit Hours
Shared – 0 Credit Hours
Total hours combined after sharing – 162 Credit Hours

The concurrent Au.D. /Ph.D. degrees option is designed to offer a path for those interested in Clinical Research to earn both doctoral degrees within approximately six years. The primary objective is to produce research audiologists competent to perform the wide array of diagnostic, remedial and other services associated with the practice of audiology as well as conduct independent research in the area of hearing and balance disorders.



Admission

- Admission to the Au.D. Major
- One (1) letter of recommendation from a member of the USF Audiology research faculty.
- A 1-2 page letter of intent.
- Demonstration of competency in communication skills as determined by the chairperson or delegate.

Shared– None

Due to the individual requirements for each degree program, there are no shared courses.

Biomedical Engineering, M.S.B.E. - Entrepreneurship in Applied Technologies, M.S.

Biomedical Engineering (EBI) – 30 Credit Hours

Entrepreneurship in Applied Technologies (EAT) – 30 Credit Hours

Approved 200701

Total hours combined: 60 Credit Hours

Shared – 0 Credit Hours

Total hours combined after sharing – 60 Credit Hours

Designed to prepare students who can effectively function in the complex world of Biotechnology companies ("Biotechs"). The program's objectives are to provide a strong Biomedical foundation for technical product development and research and development along with the skill set to effectively participate in the entrepreneurship, venture capital, business, and financial aspects of Biotechs.

Biomedical Engineering, Ph.D. – Medicine, M.D.

Biomedical Engineering (EBI) – 60 Credit Hours Post-Master's

Medicine (MED) – 369 Credit hours; 4 year professional program

Approved 200701

Total hours combined: 429 Credit Hours

Objectives of the M.D./Ph.D. Concurrent Degree are

1. Produce Highly Trained Professionals who can work effective in the area of Biomedical Translational Research, more specifically Engineer-Physicians who can conduct research in a Biomedical Engineering Area that addresses a significant clinical problem, and bring that research through to Clinical application; and
2. provide an integrated educational experience leading to both the M.D. degree and the Ph.D. (BME) Degree. In order to accomplish the first objective, advances in health care increasingly involves the application of emerging science and technology (I.E., Engineering) to clinical problems, including problems in diagnostics treatment and the health care system itself. In order to conduct effective biomedical translational research, the investigator must be trained in both clinical science (i.e. the MD Degree) and Engineering (Specifically Biomedical Engineering). This need has been delineated by both academics and industry and is validated by the growing number of MD/PH.D. (BME) majors nationally. USF has the necessary educational components and research infrastructure for this endeavor; both degrees are currently available.

Admission

Students apply for the BME degree through the Office of Graduate Studies; Students apply separately for the M.D. Degree through the College of Medicine. Admissions are on the same time schedule as that for general M.D. students. Applicants should contact a major advisor prior to application.



Curriculum

This is a seven (7) year major. Students initially complete a non-thesis M.S. in Biomedical Engineering. Then proceed to complete the first three (3) years of the Medical School Curriculum. The following two (2) years focus on the Ph.D. requirements, specifically the completion of coursework, qualifying exams, and dissertation research. In the seventh (7th) year, students complete the fourth (4th) year of Medical School and also complete any Ph.D. requirements as needed. Students must have at least one publication in an appropriate peer-reviewed journal prior to graduation.

Students establish a Graduate Committee immediately after starting the major, with members from both Engineering and Medicine. This committee guides the student through the major until a formal Ph.D. committee is established, typically in year four or five.

Biotechnology, M.S.B. - Entrepreneurship in Applied Technologies, M.S.

Biotechnology (MSB) – 36 Credit Hours

Entrepreneurship in Applied Technology (EAT) – 30 Credit Hours

Approved 200808

Total hours combined: 66 Credit Hours

Shared – 6 Credit Hours

Total hours combined after sharing – 60 Credit Hours

The combination of majors educates students to understand the scientific process and its challenges and at the same time provides the training that will enable them to facilitate the translation of scientific data from mind to market. This makes graduate students outstandingly versatile and thereby lays an essential step-stone for their future success. The Biotechnology Major has also been recognized as a "Professional Science Master's Program" by the U.S. Council of Graduate Schools.

Admission

Once the student has been admitted to both majors, he/she seeks permission from the Graduate Directors of both majors for concurrent crediting of the six (6) credit hours.

| | | | | |
|---------------|---|----------|---------------|--------------|
| Shared | - | 6 | Credit | Hours |
|---------------|---|----------|---------------|--------------|

A total of 60 credits is required for graduation with a Concurrent Master's in Biotechnology and Entrepreneurship. Beyond the shared crediting of 6 credit hours, all graduation requirements of the individual majors apply.

Course Requirements:

- GMS 6200C - Biochemistry, Molecular & Cellular Biology Credit(s): 5
- BSC 6436 Introduction to Biotechnology Credit Hours: 3
- BCH 6888 Bioinformatics Credit Hours: 3
- GMS 6092 - Principles of Intellectual Property Credit(s): 3
- GMS 6069 - Translational Biotechnology Credit(s): 3
- BSC 6437 - Biotechnology and Bioethics Credit(s): 3
- Elective from Biotechnology Major Credit(s): 3
- GMS 7939 Graduate Seminar Credit Hours: 1
- EIN 6106 Technology and Law Credit Hours: 3
- ENT 6016 - New Venture Formation Credit(s): 3
- ENT 6415 Fund of Venture Cap Priv Equity:3
- EIN 6392 - New Product Development Credit(s): 3
- GMS 6943 Biotechnology Internship Credit Hours: 3 (140 contact hrs minimum)
- ENT 6126 Strategies in Entrepreneurship: 3
- EIN 6430 Overview of Regulated Industries Credit Hours: 3
- ENT 6186 Strategies in Market Assessment - 3



- GEB 6445 Social, Ethical, Legal Systems Credit(s): 3
- ENT 6116 Business Plan Development Credit(s): 3
- ENT 6947 Adv Topics in Entrepreneurship/Internship: 3
- GMS 6873 Biomedical Ethics Credit(s): 3
- GMS 6141 Basic Medical Immunology and Microbiology Credit Hours: 3
- GMS 6115 Medical Parasitology and Mycology Credit Hours: 3
- GMS 6110 Microbial Pathogenesis and Host-Parasite Interactions Credit Hours: 3

Business Administration, M.B.A. – Medicine, M.D.

Business Administration (BUS) - 32 Credit Hours

Medicine (MED) – 369 Credit Hours; 4-year professional program

Total hours combined: 401 Credit Hours

Shared – 0 Credit Hours

Total hours combined after sharing – 401 Credit Hours

Shared – 0 Credit Hours

No courses are shared, but students in the MD degree program may opt to complete the MBA with a healthcare specialization with approval from both majors.

Suggested Schedule for M.D. students

Students joining the M.D. program could earn an M.D. degree, an M.B.A. degree as well the Business Foundations Certificate in five years, if they successfully complete courses as per the following schedule.

Year 1 – M.D. Courses

Summer 1 – Business Foundation Courses

Year 2 – M.D. Courses

Summer 2 – Business Foundation Courses; Earn Business Foundations Certificate

Year 3 – M.D. Courses

Summer 3 – M.D. Courses

Year 4 – M.B.A. Courses

Summer 4 – M.B.A. Courses; Earn M.B.A. Degree

Year 5 – M.D. Courses; Earn M.D. Degree

Business Administration, M.B.A. - Pharmacy, Pharm.D.

Business Administration (BUS) - 32 Credit Hours

Pharmacy (PRY) – 154 Credit Hours

Approved 201808

To hours combined: 186 Credit Hours

Shared – 9 Credit Hours

Total hours combined after sharing – 177 Credit Hours

Shared – 9 Credit Hours

PHA 6261 Healthcare Administration and Economics (3 credit hours)

Electives (6 credit hours are shared)

Suggested Schedule for Pharm.D. students

Students admitted to the PharmD degree program could earn a PharmD, an M.B.A. degree as well the Business Foundations Certificate in four years, if they successfully complete courses as per the following schedule:



Year 1 PharmD Courses
Summer 1 Business Foundation Course
Year 2 PharmD Courses
Summer 2 Business Foundation Courses; Earn Business Foundations Certific
Year 3 PharmD Courses; students will complete two (2) M.B.A courses in lieu of PharmD elective course
Summer 3 PharmD Courses
Year 4 PharmD Courses; Earn PharmD Degree
Summer 4 M.B.A. Courses
Year 5 M.B.A. Courses; Earn M.B.A. Degree

Business Administration (M.B.A.) and Sports and Entertainment Management (M.S.)

Business Administration (BUS) - 32 Credit Hours minimum
Sports and Entertainment Management (SMG) – 36 Credit Hours

Approved 201305
To hours combined: 68 Credit Hours
Shared – none
Total hours combined after sharing – 68

The Business Administration major with a Concentration in Sport Business is a 33 credit hour program comprising 18 hours of advanced tools and 15 hours of sport and entertainment-focused coursework. The MS in Sport and Entertainment Management is a 36 credit hour program.

Shared – none

The two programs share the following courses. Students must consult with the Graduate Program Director for advising on the required course sequence.

- SPB 6719 Sport and Entertainment Marketing Strategy Credit Hours: 3
- SPB 6406 Sport and Entertainment Law Credit Hours: 3
- SPB 6706 Sport Business Analytics Credit Hours: 3

Entrepreneurship in Applied Technologies M.S. - Global Sustainability M.A.

Entrepreneurship in Applied Technologies (EAT) – 30 Credit Hours
Global Sustainability (GBS) – 30 Credit hours

Approved 201105
To hours combined: 60 Credit Hours
Shared – 0 Credit Hours
Total hours combined after sharing – 60 Credit Hours

The combination of a Master's in Global Sustainability with a Master's in Entrepreneurship provides students with a comprehensive understanding of concepts, tools, and skills of sustainability, and students will be able to apply these areas in a problem-solving context. Students shall have the opportunity to focus on the areas of green technology and development, transport, energy, and sustainable enterprise.



Shared – 0 Credit Hours

All Concurrent Degree Master's in Global Sustainability and Entrepreneurship students must complete ENT 6016 New Venture Formation, ENT 6186 Strategic Market Assessment and ENT 6947 Advanced Topics in Entrepreneurship.

- ENT 6016 New Venture Formation Credit Hours: 3
- ENT 6116 Business Plan Development Credit Hours: 3
- ENT 6312 - Principles of Intellectual Property Credit(s): 3
- ENT 6186 Strategic Market Assessment Credit Hours: 3
- ENT 6947 Advanced Topics in Entrepreneurship Credit Hours: 3
- ENT 6606 New Product Development Credit Hours: 3
- ENT 6415 Fundamentals of Venture Capital and Private Equity Credit Hours: 3

Internship

All Concurrent Degree Global Sustainability and Entrepreneurship students must complete a six (6) credit hour internship.

French, M.A. - Linguistics: English as a Second Language, M.A.

French (FRE) - 33 Credit Hours

Linguistics: English as a Second Language (ESL) – 36 Credit Hours

To hours combined: 69 Credit Hours

Shared – 9 Credit Hours

Total hours combined after sharing – 60 Credit Hours

Shared – 9 Credit Hours

The following courses are approved to be shared with both majors:

- TSL 5371 Methods of Teaching English As A Second Language Credit Hours: 3 (required for Linguistics; elective for French)
- LIN 5700 Applied Linguistics Credit Hours: 3 (required for Linguistics; elective for French)
- FRW 5829 An Introduction to Modern French Literary Criticism Credit Hours: 3 (required for French; elective for Linguistics)

Health Administration, M.H.A. and Public Health, M.P.H.

Health Administration (MHA)

Public Health (MPH) - *Health Policies and Program Concentration*

Approved 201101

Total hours combined: 96 Credit Hours

Courses Common to both degrees: 9 Credit Hours

Shared – 9 Credit Hours

The M.H.A./M.P.H. concurrent degree provides a unique opportunity for students who are interested in both health administration and health policy to pursue both interests, recognizing that the health care marketplace has professional opportunities that require both skill sets. For specific information on each degree, refer to that degree program's listing in the Catalog.

Plan of Study (78 Credit Hours Minimum)

Courses Common to Both Degrees - 9 Credit Hours

- PHC 6588 History & Systems of Public Health Credit Hours: 1
- PHC 6756 Population Assessment: Part 1 Credit Hours: 5
- PHC 6757 Population Assessment: Part 2 Credit Hours: 3



Shared - 9 Credit Hours

- PHC 6151 Health Policy and Politics
- PHC 6180 Health Services Management
- PHC 6181 Organizational Behavior in Health Services

Linguistics: English as a Second Language, M.A. – Spanish, M.A.

Linguistics: English as a Second Language (ESL) – 36 Credit Hours

Spanish (SPA) - 36 Credit Hours

To hours combined: 72 Credit Hours

Shared – 9 Credit Hours

Total hours combined after sharing – 63 Credit Hours

Shared – 9 Credit Hours

TSL 5371 Methods of Teaching English as a Second Language – (required for Linguistics; elective for Spanish): 3

LIN 5700 Applied Linguistics – (required for Linguistics; elective for Spanish): 3

SPW 6806 Introduction to Hispanic Graduate Studies (required for Spanish; elective for Linguistics): 3

Medical Sciences Ph.D. and Medicine M.D.

Medical Sciences (MSG) – 59 Credit Hours Post-Master's

Medicine (MED) – 369 hours; 4-year professional program

Approved 200608

Total hours combined: 428 Credit Hours

The combined M.D./Ph.D. concurrent degree is designed to provide well-qualified students who are interested in careers in translational medicine with a broad knowledge in the basic biomedical and clinical sciences that is integrated with the advanced experimental training that is critical for their development as productive and versatile researchers.

To meet these objectives, student's complete courses in both the basic and clinical sciences, participate in patient-care activities and seminars, and receive individual research training in one of the many research concentrations available within the College. Graduate advisory committees counsel the entering students on planning their curriculum and selecting a research mentor. During the first two years, students complete the basic science course work and participation in research rotations that assist in the selection of a dissertation mentor. Following the successful completion of the second year of medical training and the selection of a major professor, a formal dissertation committee is appointed which assists the student in planning the research and course of study, evaluates the student's progress and supervises the comprehensive examination.

The successful completion of this examination leads to formal admission to candidacy for the Ph.D. degree. The remainder of this phase of the major emphasizes research and independent study and leads to a written dissertation and its oral defense. Following the completion and defense of their Ph.D. dissertation, students embark on the final two years of their medical training. The major culminates in the award of both M.D. and Ph.D. degrees. Departments within the Morsani College of Medicine may have additional requirements that pertain to their respective portions of the training program. Contact the department for information.

Admission

In additional meeting admission requirements for each major, applicants must also meet the following:

- Applications must be submitted through AMCAS.
- Minimum overall grade-point average of 3.70 out of a possible 4.00 with a minimum grade-point average of 3.70 in the sciences



- Medical College Admissions Test score of 30 (The MCAT substitutes for the GRE).
- Additional completed pre-requisites in:
 - o Quantitative analysis (1 course)
 - o Mathematics including integral and differential calculus

Medicine, M.D. and Law, J.D. (Stetson)

Medicine (MED) – 369 Credit Hours; 4-year professional program
Law

Approved 2007

This is a dual degree with Stetson Law School. Contact the College of Medicine for information.

Medicine M.D. and Public Health M.P.H.

Medicine (MED) – 369 Credit Hours; 4-year professional program
Public Health (MPH) – 42 Credit hours

To hours combined: 411 Credit Hours

Shared – 9 Credit Hours

Total hours combined after sharing – 402 Credit Hours

The concurrent M.P.H./M.D. degree provides a unique opportunity for medical students who are interested in blending their field of medicine with the discipline of public health. The students recognize the value of inter-professional education within health as well as the professional opportunities that require dual skill sets.

The two majors review applicants independently and admission to one major in no way guarantees admission into the other major. Medical students must be admitted and in good standing when applying for the M.P.H. degree.

Shared- 9 Credit Hours

The following courses are approved to be shared with both majors:

Transferred from M.D. degree

BMS 5005 Professions of Health: 2 credits

BMS 6825 Doctoring I: 7 out of 12 credits

Nursing M.S.N. and Public Health M.P.H.

Nursing – 40 Credit Hours Post-Master's
Public Health – 43 Credit hours

-Environmental and Occupational Health Concentration

To hours combined: 83 Credit Hours

Shared – 12 Credit Hours

Total hours combined after sharing – 71 Credit Hours

The College of Nursing and the College of Public Health offer an Interdisciplinary Concurrent Degree. This program provides training to prepare advanced occupational health nurses for practice at diverse work settings, including direct clinical practice and occupational health program development, administration and management. The student concurrently earns two degrees: a Master of Science (MS) in Nursing with a Concentration in Occupational Health Nurse Practitioner and Adult Nurse Practitioner (ANP) and



a Master of Public Health (MPH) with a Concentration in Environmental and Occupational Health. The Program is open to RN's with a baccalaureate degree in nursing or another discipline.

Shared – 12 Credit Hours

NGR 6650 Occupational Health Nursing I – 2 Credit Hours

NGR 6651 Occupational Health Nursing II – 2 Credit Hours

NGR 6207 Health Management of Adults and Older Adults I 3 Credit Hours

NGR 6207L Health Management of Adults and Older Adults I Clinical 3 Credit Hours

**The required nursing courses, NGR 6207 and NGR 6207L – 6 Credits (3 credits – 180 clock hours of preceptor supervised clinical practicum as an occupational health nurse practitioner and 3 credits – 45 class hours of class) are accepted in lieu of PHC 6949 Applied Practice Experiences (3 credits) and PHC 6943 – Integrated Learning Experience (ILE)*

Pharmaceutical Nanotechnologies M.S. - Pharmacy Pharm.D.

Pharmaceutical Nanotechnologies (PNT) - 32 Credit Hours

Pharmacy (PRY) – 154 Credit hours

To hours combined: 186 Credit Hours

Shared – 9 Credit Hours

Total hours combined after sharing – 177 Credit Hours

Shared – 9 Credit Hours

The following courses are approved to be shared with both majors:

PHA 6124 Principles of Pharmacokinetics/ Pharmacodynamics I"

PHA 6148 Nanoformulations and Nanopharmaceutics: 3

PHA 6185 Drug Discovery and Frontier: 3

Pharmacy, Pharm.D. and Public Health M.P.H.

Pharmacy (PRY) – 154 Credit hours

Public Health (MPH) – 42 Credit Hours

To hours combined: 196 Credit Hours

Shared – 17 Credit Hours

Total hours combined after sharing – 179 Credit Hours

Shared– 17 Credit Hours

The following courses are approved to be shared with both majors:

PHA 6898 Foundations of Public Health: 3

PHA 6756 Population Assessment: Part 1: 5

PHC 6757 Population Assessment: Part 2: 3

PHC 6943 Integrated Learning Experience: 3

PHC 6949 Applied Practice Experiences: 3

Public Health, M.P.H. - Social Work, M.S.W.



Public Health (MPH) – 42 Credit Hours

-Maternal and Child Health (PMC) or Behavioral Health (BHH) Concentrations

Social Work (SOK) – 35 Credit hours*

To hours combined: 77 Credit Hours

Shared – 9 hours

Total hours combined after sharing – 68 Credit Hours

Admission

*Students can begin the concurrent degree program only after completing the first 25 credits in the M.S.W. program, including: SOW 6105 , SOW 6305 , SOW 6348 , SOW 6186 , SOW 6235 ,SOW 6534 , SOW 6405 , SOW 6535 and SOW 6931 or if they have a B.S.W. in Social Work and are admitted to Social Work as an Advanced Standing M.S.W. student.

For social work students seeking the concurrent -degree, expanded study in public health encourages a well-balanced macro-micro orientation to clinical practice. Such expansion can provide the social work student with specific skills that result in comprehensive and effective client interventions in health care settings. The fundamental methodological tools of public health, such as biostatistics, epidemiology, and health management and evaluation, further assist the social worker in targeting the needs of individuals and communities. The M.S.W./M.P.H. concurrent -degree option is a two to three-year full-time course of study.

Shared – 9 Credit Hours

9 credit hours of graduate electives



Graduate Certificates

Office of Graduate Certificates

University of South Florida
4202 E. Fowler Ave., LIB 608
Tampa, FL 33620-8470

Web address: <http://www.usf.edu/innovative-education/programs/graduate-certificates/>
Phone: 813-974-0932
Fax: 813-974-7061

Graduate Certificate Policies

The areas of study for the 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 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 an accredited college or university or enrollment in a USF Bachelor's/Master's Pathway is required. Students in Bachelor's/Master's Pathways may be admitted upon completion of 120 semester hours.
2. Each Graduate Certificate specifies the requirements for admission, including minimum grade point average, standardized test scores, 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.
3. Graduate Certificate students will be held to the academic standards for all graduate students as specified in the Graduate Catalog, except for any additional requirements as noted in the section in the Graduate Catalog regarding Graduate Certificates.

Students who wish to pursue a Graduate Certificate must apply to the Graduate Certificate Office (<http://www.usf.edu/innovative-education/programs/graduate-certificates/>) 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 Graduate Certificate program through the Graduate Certificate Office 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 to the department for approval and submission to the Office of Graduate Certificates



for the Graduate Certificate to be awarded. Certificate-seeking-students will be classified as "Graduate Certificate Students." As such, they are not eligible for financial aid and will receive a later registration date than degree-seeking students.

- Degree Seeking Students
 - Admission - All degree seeking students who wish to pursue approved graduate certificates must apply for admission to the Graduate Certificate program through the Graduate Certificate Office. Students must apply for admission to the certificate prior to the deadline to apply for graduation by the fourth week of the semester in which the student plans to graduate.

Completion

For Graduate Certificates within the Major, students must submit the Completion Form by the fourth week of the semester in which the student plans to graduate. For Graduate Certificates in a discipline outside the Major, students must submit the Completion Form no later than ten years after starting the first course applied to the Certificate.

1. 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".
2. All graduate certificate students may apply one graduate course to a maximum of two graduate certificates.
3. All graduate certificate students must meet all prerequisites for courses in which they wish to enroll.
4. Should a graduate certificate student subsequently apply and be accepted to a graduate major, the University's Application of Internal Credit Policy applies. Any application of such credit must be approved by the degree-granting college and must be appropriate to the major. No courses taken outside of USF may be transferred into a Graduate Certificate at USF.
5. Students must have been awarded a bachelor's or higher degree to be eligible.

Graduate Certificates

- Academic Advising Graduate Certificate
- Addictions and Substance Abuse Counseling Graduate Certificate
- Advanced Pain Management Fellowship Graduate Certificate
- Aging & Neuroscience Graduate Certificate
- American Culture & Society Graduate Certificate
- Anatomy Graduate Certificate
- Applied Biostatistics Graduate Certificate
- Applied Linguistics Graduate Certificate
- Assessing Chemical Toxicity and Public Health Risks Graduate Certificate
- Autism Spectrum Disorder Graduate Certificate
- Bioinformatics Graduate Certificate
- Biotechnology Graduate Certificate
- Building Sustainable Enterprise Graduate Certificate
- Business Analytics Graduate Certificate
- Business Foundations Graduate Certificate
- Children's Mental Health Graduate Certificate
- Climate Change and Sustainability Graduate Certificate
- Clinical Aging Sciences Graduate Certificate
- Clinical Investigation Graduate Certificate
- College Teaching Graduate Certificate
- Community Development Graduate Certificate



- Comparative Literary Studies Graduate Certificate
- Compliance, Risk, & Anti-Money Laundering Graduate Certificate
- Concepts & Tools of Epidemiology Graduate Certificate
- Creative Writing Graduate Certificate
- Criminal Justice Administration Graduate Certificate
- Cyber Intelligence Graduate Certificate
- Cybersecurity Awareness and Education Graduate Certificate
- Data Analysis (Psychology) Graduate Certificate
- Data Science for Public Administration Graduate Certificate
- Digital Forensics Graduate Certificate
- Digital Humanities Graduate Certificate
- Disabilities Education: Severe/Profound Graduate Certificate
- Disaster Management Graduate Certificate
- Diversity in Education Graduate Certificate
- eLearning Design and Development Graduate Certificate
- Energy Sustainability Graduate Certificate
- Entrepreneurship Graduate Certificate
- Environmental Policy & Management Graduate Certificate
- Epidemiology of Infectious Diseases Graduate Certificate
- ESOL Graduate Certificate
- Evaluation Graduate Certificate
- Exceptional Student Education Graduate Certificate
- Film & New Media Studies Graduate Certificate
- Florida Digital/Virtual Educator Graduate Certificate
- Florida Studies Graduate Certificate
- Food Sustainability and Security Graduate Certificate
- Food Writing and Photography Graduate Certificate
- Foreign Language Education: Culture and Content Graduate Certificate
- Foreign Language Education: Professional Graduate Certificate
- Geographic Information Science Graduate Certificate
- Gerontology Graduate Certificate
- Global Health Practice Graduate Certificate
- Global Sustainability Graduate Certificate
- Health and Wellness Coaching Graduate Certificate
- Health Informatics Graduate Certificate
- Health Management & Leadership Graduate Certificate
- Health Sciences Graduate Certificate
- Health, Safety and Environment Graduate Certificate
- Healthcare Analytics Graduate Certificate
- Homeland Security Graduate Certificate
- Hospice, Palliative Care, and End of Life Studies Graduate Certificate
- Human Resources Graduate Certificate
- Humanitarian Assistance Graduate Certificate
- Infant-Family Mental Health Graduate Certificate
- Infection Control Graduate Certificate
- Information Assurance Graduate Certificate
- Instructional Technology: Web Design Graduate Certificate
- Intellectual Property Graduate Certificate



- Latin American & Caribbean Studies Graduate Certificate
- Leadership for Coastal Resiliency Planning Graduate Certificate
- Leadership in Developing Human Resources Graduate Certificate
- Management of Non-Governmental and Non-Profit Organizations Graduate Certificate
- Marriage & Family Therapy Graduate Certificate
- Materials Science and Engineering Graduate Certificate
- Maternal & Child Health Graduate Certificate
- Medicine & Gender Graduate Certificate
- Nanopharmaceutics Graduate Certificate
- Nursing Education (Post Master's) Graduate Certificate
- Pathology Graduate Certificate
- Pharmacoepidemiology Graduate Certificate
- Pharmacy Entrepreneurship, Leadership & Management Graduate Certificate
- Pharmacy Update & Practice Management Graduate Certificate
- Positive Behavior Support Graduate Certificate
- Post Master's Leadership in Higher Education Graduate Certificate
- Pre-Professional Pharmacy Graduate Certificate
- Professional and Technical Communication Graduate Certificate
- Project Management Graduate Certificate
- Public Health Generalist Graduate Certificate
- Public Health Policy & Programs Graduate Certificate
- Public Management Graduate Certificate
- Qualitative Research Graduate Certificate
- Reading Endorsement Graduate Certificate
- Robotics Graduate Certificate
- Scholarly Excellence, Leadership Experiences, & Collaborative Training (S.E.L.E.C.T) Graduate Certificate
- School Counseling (Post Master's) Graduate Certificate
- Social Marketing & Social Change Graduate Certificate
- Statistical Data Analysis Graduate Certificate
- Strategic Intelligence Graduate Certificate
- Sustainable Tourism Graduate Certificate
- Sustainable Transportation Graduate Certificate
- Systems Engineering Graduate Certificate
- Teacher Leadership for Student Learning Graduate Certificate
- Teaching & Communicating Ocean Sciences Broader Impacts Graduate Certificate
- Teaching in Pharmacy Graduate Certificate
- Teaching of Digitally-Enhanced Middle Grades Mathematics Education Graduate Certificate
- Technology Management Graduate Certificate
- Total Quality Management Graduate Certificate
- Toxicology Graduate Certificate
- Translational Research in Adolescent Behavioral Health Graduate Certificate
- Transportation System Analysis Graduate Certificate
- Water Sustainability Graduate Certificate
- Water, Health and Sustainability Graduate Certificate
- Wireless Engineering Graduate Certificate
- Women's and Gender Studies Graduate Certificate





College of Arts and Sciences

College of Arts and Sciences

Arts and Sciences - Programs and Certificates

University of South Florida
College of Arts and Sciences
4202 E. Fowler Ave BEH107
Tampa, FL 33620

Web address: <http://www.cas.usf.edu/>

Email: see individual department listings

Phone: 813-974-6957

Fax: 813-974-4075

College Dean: Eric Eisenberg, Ph.D.

Sr. Associate Dean: Robert Potter, Ph.D.

Associate Dean: Allison Cleveland Roberts

College Structure

The College of Arts and Sciences is USF's largest college. The College is comprised of three schools including the School of Social Sciences, the School of Natural Sciences & Mathematics, and the School of Humanities, all with strong interdisciplinary connections among them and throughout the University.

Mission Statement

The College of Arts and Sciences is a community of scholars dedicated to the idea that educated people are the basis of a just and free society. The essences of education are a capacity for the appreciation of social change within a context of prior human achievement. The faculty of the Arts and Sciences strive to instill in their students a history of human ideas, a love of learning, and an understanding of the means that scholars have used in their search for beauty and order in the natural world. The education provided by the disciplines of the Arts and Sciences is the foundation upon which the lives and professions of our students are built, and the basis from which personal growth occurs.

The College of Arts and Sciences takes as its goal a melding of the natural, humanistic and social philosophies into a comprehensive whole that encourages the development of new ideas and new approaches to the understanding of our universe. It is the responsibility of scholars to share their discoveries for the betterment of society. Thus, the Arts and Sciences embrace the disciplines that strive to make immediate use of knowledge in the service of social goals as well as the disciplines whose discoveries contribute to the fund of basic information that is the stepping stone of applied knowledge.

College Requirements

Thesis Enrollment



Upon successful completion of all M.A./M.S. degree requirements except for thesis, Arts and Sciences graduate students must enroll in a minimum of two (2) credit hours of Thesis each semester (except Summers) until the completion of the master's degree.

Dissertation Enrollment

Doctoral students who have been admitted to candidacy are required to accumulate a minimum of six (6) credit hours of Dissertation during each previous 12-month period (previous three (3) terms, e.g., Fall, Spring, Summer) until the degree is granted.

Programs and Certificates

For the College of Arts and Sciences, programs are listed with the Schools offering them and Graduate Certificates are listed with the College.

To view offered programs,

- College of Arts and Sciences- Graduate Certificates
- School of Humanities
- School of Natural Sciences and Mathematics
- School of Social Sciences

Graduate Certificates offered from the College are listed below.



Dean's Office

Graduate Certificate



American Culture & Society Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The certificate offers an interdisciplinary approach to the study of American culture and society. Classes integrate interpretations of the literature, arts and music of the United States with an understanding of the social values and historical issues they engage. The field of American Studies offers students a unique opportunity to study a broad range of cultural phenomena of contemporary social relevance.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also have:

Academic Writing Sample, GRE Scores

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Requirements of this Certificate (12 Credit Hours)

- AMS 6254 Cultural Era **Credit Hours: 3**

Electives

Select 3:

- AMS 6002 American Lives **Credit Hours: 3**
- AMS 6156 Theories and Methods of Cultural Studies **Credit Hours: 3**
- AMS 6805 Enduring Questions in American Culture **Credit Hours: 3**
- AMS 6934 Selected Topics **Credit Hours: 1-3**
- HUM 6453 Studies in American Arts and Letters I **Credit Hours: 3**
- HUM 6453 Studies in American Arts and Letters I **Credit(s): 3**
- HUM 6585 Film and New Media Auteurs **Credit Hours: 3**

Time Limit



3 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Applied Linguistics Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This certificate is designed to provide students with an introduction to the field of applied linguistics. There are no other certificates of this kind in the state of Florida. Because of the program's flexibility regarding course requirements, it will allow students to specialize based on need and personal interest. And because of the applied nature of this discipline, this certificate will introduce students to advanced language analytic skills and expertise work in business, research and innovation, government, healthcare, technology, and the nonprofit sectors.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also have:

1 academic Letter of Recommendation, resume, letter of intent

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Requirements of this Certificate (9 Credit Hours)

Students must take at least one of the following three-credit courses:

- TSL 5371 Methods of Teaching English as a Second Language **Credit Hours: 3**
- LIN 5700 Applied Linguistics **Credit Hours: 3**
- LIN 6720 Second Language Acquisition **Credit Hours: 3**
- TSL 5525 Cross-Cultural Issues in ESL **Credit Hours: 3**

Electives

Students may choose from the following electives for the remaining six credits. Courses from the core courses may also be used to fulfill remaining six credits.

- TSL 5440 Language Testing **Credit Hours: 3**
- LIN 6081 Introduction to Graduate Study in Linguistics **Credit Hours: 3**



- LIN 6675 The Grammatical Structure of American English **Credit Hours: 3**
- TSL 5372 ESOL Curriculum and Instruction **Credit Hours: 3**
- LIN 6601 Sociolinguistics **Credit Hours: 3**

Time Limit

3 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Community Development Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

The Graduate Certificate in Community Development allows students to explore the urban communities that have suffered from decades of disinvestment and to examine the efforts of their residents to revitalize them. The approach is interdisciplinary, weaving together a variety of perspectives so that students come to understand what communities are and how they differ; how communities fit into broader social systems; and what strategies are necessary to develop communities. The certificate is also applied, focusing on the current issues and efforts of community development in the Tampa area.

The certificate is designed to attract students from three distinct pools:

1. Students who have completed an undergraduate degree but are uncertain as to the graduate program they want to pursue;
2. Students enrolled in USF graduate programs who want to focus on community development.
3. Professionals already working in the field that want a graduate-level credential.

Course Location/Delivery

This graduate certificate curriculum is offered at the Tampa campus.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (15 Credit Hours)

- URP 6549 Urban & Metropolitan Economic Development Strategies **Credit Hours: 3**
- URP 6058 Community Development Planning **Credit Hours: 3**
- URP 6930 Special Topics in Urban and Regional Planning **Credit Hours: 3**
CRED Course (Florida Institute of Government) (3 Credit Hours)
- URP 6316 Land Use Planning **Credit Hours: 3**

Additional Course (3 Credit Hours)

With the approval of the Certificate Director, student choose one graduate course(3 credits) relevant to community development from the School of Public Affairs course offerings. In some cases an appropriate class from another department may be approved.



Time Limit / Average Time to Completion

The approximate time to complete the Certificate is three years.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Comparative Literary Studies Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This certificate offers a comprehensive graduate program of comparative study and research. Linked to the Department of English but not limited to it, the students take core courses in research, bibliography, approaches to critical theory, and develop a comparative study, part of which is often grounded in literature or rhetoric. The certificate culminates with an individualized comparative course (Directed Study) that allows students to engage in the practice of comparative research and results in a research paper, possibly publishable, on an aspect of the focus area(s) of inquiry. Through a thematic or conceptual cluster of five graduate-level courses in two disciplines, students can explore how different national literatures are interconnected, and/or how different literatures relate contextually and culturally to other disciplines, such as art, music, history, psychology, philosophy, politics, among others. This certificate, owing to the personalized design of each student's program, appeals to students of diverse backgrounds and interests and their desire to connect literary and aesthetic study to history, foreign languages, philosophy, religion, politics, and cultural studies. By completing this certificate, students will have an excellent formation in comparative or interdisciplinary studies. Graduates may decide to further their studies in comparative studies, literature, or their other discipline(s) of focus. This certificate enhances teaching and research credentials, as well as possibilities for employment in the arts, publishing, broadcasting, journalism, and government.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also have:

- B.S. in English or Humanities
- minimum GPA 3.30
- minimum GPA 3.50 in major
- 3 Letters of Recommendation
- GRE Scores suggested minimum verbal score of 600.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Generally, students will have already had some undergraduate study of the discipline(s) they wish to include in their graduate certificate selection of courses. For example, those who wish to study Spanish literature will have knowledge of Spanish.

Requirements of this Certificate (15 Credit Hours)



15 Credit hours. Students will develop an individualized curriculum plan in conjunction with the Graduate Certificate Program Coordinator and the Graduate Director. Normally, course selection will involve two or three courses in the English Department, but

- Any graduate-level English Lit., Rhetoric, or course in student's other declared discipline; for English MA and PhD,
- ENG 6009 Introduction to Graduate Study **Credit Hours: 3**

- ENG 6018 Studies in Criticism and Theory I **Credit Hours: 3**
or
- ENG 6019 Studies in Criticism and Theory II **Credit Hours: 3**
or
- a theory-rich course in English Literature.

- One graduate-level literature course in English, American or World Literature OR graduate-level course in student's other discipline.

Electives

Select two elective courses.

- One graduate-level course in a discipline other than English, usually in the Humanities, Foreign Languages, philosophy, History, Religion, Theatre, Communications, etc. The course should contribute to the student's proposed area of comparative research.
- Directed Study-An individual reading and research course resulting in a graduate-level research paper of 15-25 pages with a comparative and/or interdisciplinary focus (related optimally to the courses in theory, literature, and elective discipline).

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Creative Writing Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The USF English department offers advanced degrees in Literature, Rhetoric and Composition, and Creative Writing. Faculty members include award-winning authors, which benefits the wide range of students interested in developing their own creative writing skills. The Creative Writing Certificate provides expert instruction, a supportive atmosphere, and a well-structured program. The Graduate Certificate fulfills the needs for both degree seeking (internal) and non-degree seeking (external) students. It provides students enrolled in traditional graduate programs with opportunity to develop their writing skills, widen the scope of their graduate education, and enhance their employment opportunities. Additionally, it provides an ideal learning environment for students who, although not pursuing a Master's degree in English, want to acquire the necessary skills for creative writing.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

- B.S. in English or related discipline
- minimum GPA 3.30
- minimum GPA 3.50 in the major
- a writing sample

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (15 Credit Hours)

The program requires 15 hours coursework for certification. Six hours (two courses) of a core curriculum. Select two:

- CRW 6130 Fiction Writing **Credit Hours: 3**
- CRW 6164 The Craft of Fiction **Credit Hours: 3**
- CRW 6331 Poetry Writing **Credit Hours: 3**
- CRW 6236 Nonfiction Writing **Credit Hours: 3**



Electives

Three courses, or 9 credit hours of electives are selected from the elective course list below. Electives may also be selected from the list of core courses and must be approved by the certificate coordinator

- ENG 6018 Studies in Criticism and Theory I **Credit Hours: 3**
- LIT 6096 Studies in Contemporary Literature **Credit Hours: 3**
- LIT 6934 Selected Topics in English Studies **Credit Hours: 1-6** approved by the Creative Writing Coordinator or Graduate Director
- Any 6000-level literature course

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Cyber Intelligence Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The graduate certificate in cyber intelligence prepares you to acquire and assess the intentions, capabilities, and activities of potential adversaries and insiders who pose a threat, including attack methods that target people to penetrate systems, sometimes referred to as social engineering.

Learn to generate and evaluate courses of action to manage risks, counter vulnerabilities and enhance organizational decision-making as you develop an understanding of how intelligence drives a cybersecurity mission.

Course Location/Delivery

This Certificate is offered online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None

Curriculum Requirements (18 Credit Hours)

- LIS 6107 Advanced Professional & Technical Communication for Analysts **Credit Hours: 3**
- LIS 6700 Information Strategy and Decision-Making **Credit Hours: 3**
- LIS 6702 Advanced Intelligence Analytic Methods **Credit Hours: 3**
- LIS 6703 Core Concepts in Intelligence **Credit Hours: 3**
- LIS 6709 Cyber Intelligence **Credit Hours: 3**
- LIS 6670 Advanced Cyber Intelligence **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Data Analysis (Psychology) Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

The graduate certificate program 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 in or entering the workforce who are interested in jobs requiring data analytic skills. Upon completion of the graduate certificate program, students will be able to:

- Recognize and understand appropriate use of major research designs and statistical methods of the field.
- Write clear and precise summaries of data analysis and findings when presented with raw data and prepare a power point presentation to succinctly communicate program evaluation findings to a mock community agency.
- Demonstrate the ability to effectively analyze and synthesize information in multiple formats (e.g., written narratives, bulleted summaries, oral presentation).

Course Location/Delivery

St. Petersburg campus

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

To be admitted to the graduate certificate program in Data Analytics:

- students must also have a official GRE scores with a 151 verbal score and 150 quantitative score.
- students currently enrolled in the MA: Psychology graduate degree program at the USF St. Petersburg campus or with previously conferred graduate degrees in a related field may potentially be eligible for an exemption of the testing requirement upon the pre-approval of their graduate advisor.

Curriculum Requirements

- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4**
- PSY 6218 Graduate Research Methods **Credit Hours: 3**
- SOP 6266 ANOVA Credit Hours 3
- One graduate-level elective course must be Advanced Stats, Program Evaluation, or Grant Writing (offered as SOP 6266)

Credit Toward Graduate Degree

In many cases, up to 12 hours of coursework from a certificate program (with grades of B or better) may be transferred into and used towards satisfaction of a graduate degree program with prior approval of the student's graduate faculty advisor.

Contacts



Contact Information: <http://www.grad.usf.edu/cert>



Data Science for Public Administration Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered partially online.

Description

This graduate certificate addresses growing demand for more quantitatively-based, data-informed policy and program analysis and decision making the public and nonprofit sectors, as well as the concomitant demand for public and non-profit sector professional with the advanced data analytics competencies to conduct them. The Certificate is designed for current and prospective public and non-profit sector professionals, as well as degree-seeking MPA students who wish to enhance their quantitative competence in data science and decision analytics in order to meet those demands.

Course Location/Delivery

Offered at USF Tampa and/or online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

3.50 GPA preferred

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

Completion of PAD 6703 and instructors approval.

Curriculum Requirements (15 Credit Hours)

- PAD 6703 Quantitative Analysis in Public Administration **Credit Hours: 3**
- URP 5277 GIS for Urban and Regional Planners **Credit Hours: 3**

Select three of the following courses:

- LIS 5802 Information Analytics **Credit Hours: 3**
- MAN 6347 People Analytics **Credit Hours: 3**
- LIS 5937 Selected Topics in Library Studies **Credit Hours: 1-4**
Visualization of Big Data (3 Credit Hours)
- QMB 6358 Data Analytics for Business **Credit Hours: 3**
- ISM 6137 Statistical Data Mining **Credit Hours: 3**
- SYA 7357 Introduction to Social Network Analysis **Credit Hours: 3**



Time Limit / Average Time to Completion

Five years

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Digital Humanities Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

The Graduate Certificate in Digital Humanities program, designed in collaboration between the English department and the History department, offers students enrolled in the Graduate School an opportunity to complete a series of courses (12 hours) at the intersection of technology and humanities research. It offers training in technologies and platforms associated with digitization, electronic editions, cultural heritage, archives, text mining, data analysis and visualization, the use of mapping and GIS in humanities research, and the study of digital media and technology from a humanities perspective.

Course Location/Delivery

Offered at USF Tampa.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (12 Credit Hours)

- DIG 6007 Trends in Digital Humanities **Credit Hours: 3**
- DIG 6585 Digital Humanities Capstone Project **Credit Hours: 3**
Two additional appropriate graduate courses, as approved by the program (6 Credit hours)

Time Limit / Average Time to Completion

Five years.

Credit Toward Graduate Degree

Credit hours from this Certificate may be eligible to apply toward a graduate degree. Check with the department for information.

Contacts



Contact Information: <http://www.grad.usf.edu/cert>



Environmental Policy & Management Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Graduate Certificate in Environmental Policy and Management prepares industrial and government professionals, regular practitioners, local citizens, and university students who wish to acquire or strengthen their knowledge of the environment through formal graduate-level coursework. The curriculum is designed to allow students to choose courses from across the spectrum of disciplines that explore the human and natural environments. The curriculum consists of 15 - 18 graduate credit hours. The normal total requirement is 5 courses, or 15 hours; however, a maximum of 6 courses, or 18 hours, are allowed while registered for the certificate.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

1 Letter of Recommendation

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (15 Credit Hours)

- GEO 6116 Perspectives on Environmental Thought **Credit Hours: 3**
- EVR 6922 ESP Capstone Seminar **Credit Hours: 3**

Select two of the following:

- PAD 5605 Administrative Law and Regulation **Credit Hours: 3**
- PHI 6934 Selected Topics **Credit Hours: 1-3**
- EVR 6320 Environmental Management **Credit Hours: 3**
- POS 6933 Selected Topics in Political Science **Credit Hours: 3**
- GEO 6605 Contemporary Urban Issues **Credit Hours: 3**
- EVR 6216 Advances in Water Quality Policy and Management **Credit Hours: 3**



- EVR 6937 Seminar in Environmental Policy **Credit Hours: 3**
- EIN 6634
- EVR 6936 Seminar in Environmental Science **Credit Hours: 3**

Electives

Select 1 or 2:

- PHC 6357 Environmental and Occupational Health **Credit Hours: 3**
- GEO 6286 Advances in Water Resources **Credit Hours: 3**
- PHI 6405 Seminar in the Philosophy of Natural Science **Credit Hours: 3**
- PUP 6007 Seminar in Public Policy **Credit Hours: 3**
- PHI 6425 Seminar in the Philosophy of Social Science **Credit Hours: 3**
- ECO 6305 History of Economic Thought **Credit Hours: 3**
- ANG 6197 Public Archaeology **Credit Hours: 3**
- ANG 5937 Seminar in Anthropology **Credit Hours: 2-4**
- GEO 6255 Weather, Climate, and Society **Credit Hours: 3**
- GEO 6345 Technological Hazards and Environmental Justice **Credit Hours: 3**
- GEO 6347 Natural Hazards **Credit Hours: 3**
- GIS 6306 Environmental Applications of Geographic Information Systems **Credit Hours: 3**
- PAD 6307 Policy Design and Implementation **Credit Hours: 3**
- or any add. Core courses

Time Limit

3 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Film & New Media Studies Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

Moving-image media are transforming the way we work and play and how we relate to colleagues, friends, and family members. Film & New Media Studies is designed to teach students how to think actively, critically, and creatively, about the art of the moving image. To this end, it surveys significant examples of moving-image culture, including films from Hollywood and other global industries: experiments in documentary and art cinema; and works from television, digital video and the Internet. For some students, this certificate complements their aspirations to produce moving-image works. For others, it means better understanding their own mediated environments.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

- Academic Writing Sample
- Prefer GRE Verbal 153 & Analytic Writing 4.5

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

- HUM 6584 Global Cinema and New Media since 1960 **Credit Hours: 3**

Electives

Choose three classes (9 credit hours) from the list below.

- HUM 6583 Global Cinema and New Media to 1960 **Credit Hours: 3**
- HUM 6586 Film Theory **Credit Hours: 3**
- HUM 6587 National Cinemas **Credit Hours: 3**
- HUM 6588 Themes and Genres in Film and New Media **Credit Hours: 3**



- HUM 6585 Film and New Media Auteurs **Credit Hours: 3**

Time Limit

3 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Florida Studies Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

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.

Location/Delivery

Campus

Credit Towards Degree

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.

Time Limit / Average Time to Completion

Time limit is 5 years

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

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

Curriculum Requirements

This Certificate Requires a Minimum of 9 Credit Hours

Core Requirements (3 Credit Hours)

- AMS 6026 Florida and Regional Studies **Credit Hours: 3**

Electives (6 Credit Hours)

- HIS 6939 Seminar in History **Credit Hours: 3** (*Early Florida History, Modern Florida History*)
- GEA 6195 Seminar in Advanced Regional Geography **Credit Hours: 3**
- LIT 6934 Selected Topics in English Studies **Credit Hours: 1-6** (*Florida and the Global South*)



- GEO 6605 Contemporary Urban Issues **Credit Hours: 3**
- EVR 6072 Florida Springs **Credit Hours: 3**
- HIS 5114 Spanish Paleography I **Credit Hours: 3**
- HIS 5116 Spanish Paleography II **Credit Hours: 3**

Contact

Contact Information: <http://www.grad.usf.edu/cert>



Food Writing and Photography Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Location/Delivery

Available: 100% online, hybrid of online and face-to-face courses

Credit Toward Graduate Degree

Time Limit / Average Time to Completion

Time Limit is five years

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Pre-Requisites

Curriculum Requirements

This Certificate requires 12 Credit Hours

Core Requirements (6 Credit Hours)

Students pursuing this certificate will take required online courses with a focus on food writing and photography

- MMC 6936 Selected Topics in Mass Communications **Credit Hours: 3** (Food Writing; Special Topics in Food Communication)

Electives (6 Credit Hours)

Two elective courses offered within the Department of Journalism and Digital Communication

Contact

Contact Information: <http://www.grad.usf.edu/cert>



Geographic Information Science Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

A five-course graduate certificate that covers both technical and applied aspects of Geographical Information Systems (GIS) at an advanced level. Courses are typically either online or in the evenings to accommodate working professionals.

Location/Delivery

Offered on campus

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

- Completion of an approved introductory GIS course at the undergraduate level with a grade of at least B, or approved work experience.
- Bachelors degree with at least a GPA of 3.00

Credits Applied to Degree

All credits can be applied to a graduate degree with department approval.

Time Limit/Average Time to Completion

5 years

Curriculum Requirements (15 Credit Hours)

- **Core - 6 Credit Hours**
- **Electives - 9 Credit Hours**

Core Requirements (6 Credit Hours)

- GIS 6100 Advanced Geographic Information Systems **Credit Hours: 3**
- GIS 6103 Programming for GIS **Credit Hours: 3**

Electives (9 Credit Hours Minimum)

- GEO 6166 Multivariate Statistical Analysis **Credit Hours: 3**
- GIS 6112 Spatial Database Development **Credit Hours: 3**
- GIS 6306 Environmental Applications of Geographic Information Systems **Credit Hours: 3**
- GIS 6355 Water Resources Applications of GIS **Credit Hours: 3**
- GIS 5034C Introduction to Remote Sensing **Credit Hours: 3**
- GIS 6038C Remote Sensing **Credit Hours: 3**
- GIS 6039 Remote Sensing Seminar **Credit Hours: 3**
- GIS 6307 GIS Seminar **Credit Hours: 3**
- URP 6930 Special Topics in Urban and Regional Planning **Credit Hours: 3**
Topics: GIS II: Urban Spatial Analysis
LiDAR and 3-D Applications of GIS



- GEO 6908 Independent Study **Credit Hours: 1-19** as approved in advance by the Graduate Certificate Director. No more than 3 credit hours of GIS 6908 may count toward the certificate.



Infant-Family Mental Health Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This fully online graduate certificate program 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 of intervention 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. Program emphases include theoretical/conceptual and applied issues relating to:

- Coparenting
- Cultural Diversity and Humility
- Observation and Assessment
- Triadic and Family-focused Intervention
- Risk and Resiliency
- Reflective Practice
- Systems and Community Change

Location/Delivery

Online

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Applicants must satisfy the following:

- 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 direct service).
- A 1,000-word statement of intent for seeking a certificate in Infant-Family Mental Health, including discussion of your motivations; your background (especially the academic and professional aspects); the specific community, professional, policy or scholarly issues in which you have an interest; how your background has prepared you to excel in the Infant-Family Mental Health Certificate program; and how you intend to apply your education when you complete the certificate 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 your ability to excel in this type of work.
- Two examples of professional or academic writing.

Curriculum Requirements

This Certificate Requires 12 Credit Hours

Core Requirements (12 Credit Hours)

- Infant-Family Mental Health (January – May)



- CLP 6443 Assessment of Infant-Family Mental Health **Credit Hours: 3** (June – July; 6 weeks)
- CLP 6462 Working with Families of Infants and Toddlers **Credit Hours: 3** (July – August; 6 weeks)
- CYP 6109 Coparenting and Systems Change for Infant-Family Mental Health **Credit Hours: 3** (August – December)

Credit Toward Graduate Degree

Time Limit / Average Time to Completion

Time Limit - 5 years

Contact

Contact Information: <http://www.grad.usf.edu/cert>



Latin American & Caribbean Studies Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

The University of South Florida's international programs educate and train students to prepare them for positions in the changing global economy, culture and polity. The Latin American and Caribbean region is just "next door." It is also the United States' most important import and export market, surpassing trade flows with the European Union. In addition, it is an area of enormous cultural and ecological diversity and cultural creativity. The need to understand this rapidly changing and expanding area of the "other" America is fundamental for those who are interested in conducting business in the region, who are involved with security issues, or who wish to engage in artistic contemplation. This certificate provides students with the opportunity to benefit from lectures by distinguished writers and scholars and to travel to various locations under the Study Abroad credit course.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (15 Credit Hours)

15 credit hours. Students will be required to take six credits from each of the two areas (social science and humanities).

- The humanities courses will include all LACS courses from humanities and cultural studies, world languages, literature (including the English department), religion, the College of the Arts, and history, as well as select courses from Africana Studies and Women's Studies and some LAS courses which are offered through ISLAC.
- The social science courses will include all LACS courses from SIGS, Sociology, Geography, the College of Education, the College of Public Health, select courses from Women's Studies and Africana Studies, and some LAS courses which are offered from ISLAC.
- Learning Assessment - Student must submit a 4 - 6 page reflective essay.

Time Limit

2 years



Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Leadership for Coastal Resiliency Planning Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered partially online.

Description

Prepares students who will be working in the areas of planning, development and policy, largely in the public and non-profit sector, in the areas on or near the coast.

Trains planners, policy makers and public/non-profit managers to address the growing challenges facing coastal communities. Course content covers land use and economic development planning, environmental policies, disaster preparation and recovery.

Course Location/Delivery

Partially online. Courses may be located at USF Tampa or USF St. Petersburg

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None

Curriculum Requirements (15 Credit Hours)

- URP 6422 Environmental & Planning Issues in Coastal Communities **Credit Hours: 3**
- URP 6401 Planning for Resilient Communities **Credit Hours: 3**
- URP 6439C Disaster Resilient Community **Credit Hours: 3**
- URP 6406 Urban Environmental Policy **Credit Hours: 3**
- PAD 6710 Public Information Management **Credit Hours: 3**

Time Limit / Average Time to Completion

Five years



Credit Toward Graduate Degree

Credit hours from this Certificate may be eligible to apply toward a graduate degree. Check with the department for information.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Management of Non-Governmental and Non-Profit Organizations Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

Non-profit administrators as well as those who aspire to work for non-profit organizations will benefit from this graduate certificate curriculum, which covers leadership, fund raising, and strategic planning issues.

Course Location/Delivery

Offered at USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None

Curriculum Requirements (18 Credit Hours)

- PAD 6146 Nonprofit Management and Leadership **Credit Hours: 3**
- PAD 6208 Financial Oversight for Nonprofit Organizations **Credit Hours: 3**
- PAD 6231 Resource Development: Fundraising and Grantsmanship **Credit Hours: 3**
- PAD 6335 Strategic Planning and Social Innovation for Public and Nonprofit Organizations **Credit Hours: 3**

In addition, students complete two graduate courses from the School of Public Affairs which are relevant to the study of non-profit management or another graduate program.

Time Limit / Average Time to Completion

Students should complete the certificate within 2-3 years.

Credit Toward Graduate Degree



All 18 credit hours may be transferred into the Master of Public Administration (M.P.A.) program as long as a grade of B (3.00) or higher was received in the certificate classes.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Professional and Technical Communication Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Graduate Certificate in Professional and Technical Communication combines workplace writing theory and practice with an emphasis on contemporary multimedia communication technologies. The certificate helps working professionals to strengthen their workplace skills, gain experience working with communication technologies, and prepare for careers or advancement as professional who write. It also provides the opportunity for students from all graduate programs to broaden their research and teaching agendas as they prepare for a competitive job market in English Studies.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (15 Credit Hours)

- ENC 6261 Professional and Technical Communication **Credit Hours: 3**
- LIT 6934 Selected Topics in English Studies **Credit Hours: 1-6** (Practicum in Teaching Professional and Technical Communication) (**3 credits for this program**)

Electives

- ENC 6421 Studies in Rhetoric and Technology **Credit Hours: 3**
- ENC 6422 New Media Production **Credit Hours: 3**
- LIT 6934 Selected Topics in English Studies **Credit Hours: 1-6** (Rhetoric of Science, Technology and Medicine) (**3 credits for this program**)
- LIT 6934 Selected Topics in English Studies **Credit(s): 1-6** (Rhetoric, Science studies and the New Materialism)



Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Public Management Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

The graduate certificate in Public Management will benefit those who currently hold positions in governmental management as well as those who administer governmental contracts and programs. This course of study develops competencies required for effective public management.

Location/Delivery

USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Standardized tests are not required for admission to this certificate. However, should a graduate certificate student subsequently apply to the master's degree program in Public Management, the GRE is required.

Application Process

To learn about the application process, and to access the application, please review our application process.

In addition to your completed application form, transcripts, resume and letter of interest, you will need to submit the following documents:

- Submit two letters of recommendation

Credit Toward Graduate Degree

All 18 hours/six courses from this certificate may be transferred into the Master in Public Administration program as long as a grade of B or higher was received in the certificate classes.

Time Limit / Average time to Completion

Students should complete the certificate within 2-3 years.

Pre-Requisites

None

Curriculum Requirements (18 Credit Hours)

Complete this:

- PAD 6060 Public Administration Theory **Credit Hours: 3**

And select 6 credit hours from the following:

- PAD 6041 Ethics and Public Service **Credit Hours: 3**
- PAD 6227 Public Budgeting **Credit Hours: 3**



- PAD 6307 Policy Design and Implementation **Credit Hours: 3**
- PAD 6703 Quantitative Analysis in Public Administration **Credit Hours: 3**
- PAD 6710 Public Information Management **Credit Hours: 3**
- PAD 6275 Political Economy for Public Managers **Credit Hours: 3**
- PAD 6417 Human Resources Management **Credit Hours: 3**

Remaining 9 Credit hours to be approved in advance by the Certificate Director.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Statistical Data Analysis Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

There is a significant need to certify professional statistical analysts in various fields, such as the social, medical, physical, and biological sciences, engineering, business, and other industries. Individuals who have their baccalaureate or graduate degrees from these fields, and who find it necessary to design experiments, collect and analyze data, and interpret and make decisions based on ordinary and complex statistical techniques and methods would benefit from this certificate. This interdisciplinary program fulfills the basic educational training required to address these professional activities.

Location/Delivery

USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

- A minimum score of 650 on the quantitative portion of the GRE

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

The Certificate should be completed within five (5) semesters.

Pre-Requisites

None

Curriculum Requirements (15 Credit Hours)

- STA 5166 Statistical Methods I **Credit Hours: 3**
- STA 5326 Mathematical Statistics I **Credit Hours: 3**
- STA 5526 Non-Parametric Statistics **Credit Hours: 3**
- STA 6167 Statistical Methods II **Credit Hours: 3**
- MAT 6908 Independent Study **Credit Hours: 1-19**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Strategic Intelligence Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

The Graduate Certificate in Strategic Intelligence will provide a state-of-the-art, academic foundation in the discipline of intelligence studies. That foundation can prepare the individual to pursue further graduate study or to develop and apply this critical set of professional skills. The curriculum follows the guidelines for the International Association for Intelligence Education (IAFIE), covering strategic thinking, core concepts, analytic methods, and analytic communication (writing and briefing).

Location/Delivery

This certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

In addition, to the application forms please submit:

- Official transcripts
- A resume
- Letter of Intent

Credit Toward Graduate Degree

Course credits earned in the certificate may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Three years.

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- LIS 6700 Information Strategy and Decision-Making **Credit Hours: 3**
- LIS 6702 Advanced Intelligence Analytic Methods **Credit Hours: 3**
- LIS 6703 Core Concepts in Intelligence **Credit Hours: 3**
- LIS 6107 Advanced Professional & Technical Communication for Analysts **Credit Hours: 3**



Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Women's and Gender Studies Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

The Women's Studies Graduate Certificate provides an opportunity for graduate students and other professionals to gain a more inclusive knowledge of women and gender issues in society, including feminist studies. Feminist scholarship enhances any educational and professional background, including areas of social or health services that serve women, as well as any national/international based profession in today's diverse society. Students will investigate theories pertaining to the roles of gender, race, class and sexuality within various cultural systems.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

12 credit hours with a grade of B or higher. Three (3) credit hours of coursework are required:

- WST 6001 Feminist Research and Methodology **Credit Hours: 3**
- Select nine(9) credit hours of elective coursework from the list below, or consult with the certificate program advisor about current course offerings that may apply as electives. Up to 3 credit hours from the student's graduate discipline may be applied

Electives

- WST 6560 Advanced Feminist Theory **Credit Hours: 3**
- WST 6936 Selected Topics in Women's Studies **Credit Hours: 3**
- WST 6003 Feminist Scholarship and Pedagogy **Credit Hours: 3**

Time Limit

2 years



Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



College of Arts and Sciences: School of Humanities

College of Arts and Sciences: School of Humanities

For the College of Arts and Sciences, programs are listed with the Schools offering them and Graduate Certificates are listed with the College.

Refer to the College section for further information, policies, and requirements.

Also refer to:

- College of Arts and Sciences - Graduate Certificates
 - School of Humanities Programs
 - School of Natural Sciences and Mathematics Programs
 - School of Social Sciences Programs

School of Humanities - Programs

Programs offered from the School of Humanities are listed below.



Department of Communication

Major



Communication, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Communication

Contact Information: <http://www.grad.usf.edu/majors>

Graduate study at the University of South Florida Department of Communication emphasizes critical, qualitative, and quantitative research, a comprehensive focus that is unusual among graduate programs in the field of Communication. The department embraces innovative humanistic and social scientific approaches to inquiry and engagement in health, media, organizational and relational communication, with emphases on culture, performance, and social justice.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Two letters of recommendation;
- Writing sample,
- Statement of purpose.
- GRE with preferred scores of at least 153V (61st percentile)
- Transcripts
- CV or resume

Curriculum Requirements

Total minimum hours - 36 credit hours

- **Core Requirements - 6 credit hours**
- **Electives - 24 credit hours minimum**
- **Thesis/Non-thesis - 6 credit hours**

Core Requirements (6 Credit Hours)

- COM 6001 Theories and Histories of Communication **Credit Hours: 3**
This course must be taken the first time it is offered after the student is admitted to the graduate program.
- COM 7325 Seminar in Communication Research Methods **Credit Hours: 3**

Electives (24 Credit Hours)

Twenty-four (24) hours of elective graduate coursework, six (6) hours, of which, may consist of graduate courses from other departments and must have advisor approval.



Select: Thesis or Non-Thesis

Non-Thesis (6 credit hours)

Students in the non-thesis option take another 6 hours of graduate level electives, which may consist of graduate courses from other departments and must have advisor approval.

Thesis (6 Credit Hours)

- SPC 6971 Thesis: Master's **Credit Hours: 2-19**

In consultation with the major professor, Thesis Program students will select a thesis topic, constitute a thesis committee, and write orally defend a thesis proposal. The thesis is an extended research project within a specific area of communication research culminating in a written academic analysis. Upon completion of the thesis, the student must pass an oral defense.

Comprehensive Exam Requirements

All non-thesis students must pass both written and oral comprehensive examinations. For thesis students, the thesis defense serves in lieu of the comprehensive exams.

Other Requirements

1. Establish a supervisory faculty committee consisting of a major professor and two additional members, at least one of whom is a member of the Department of Communication. The supervisory committee must be approved by the Director of Graduate Studies.
2. Prepare a Plan of Study approved by the student's supervisory committee. The Plan of Study expresses the ways in which the student will show evidence of the following:
 - a. expertise in one or more of the central domains of communication study
 - b. expertise in the research methodologies needed to carry out original research in the specialized area of concentration (Thesis Program students only)



Communication, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Communication

Contact Information: <http://www.grad.usf.edu/majors>

Graduate study at the University of South Florida Department of Communication emphasizes critical, qualitative, and quantitative research, a comprehensive focus that is unusual among graduate programs in the field of Communication. The department embraces innovative humanistic and social scientific approaches to inquiry and engagement in health, media, organizational and relational communication, with emphases on culture, performance, and social justice.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Three letters of recommendation;
- Writing sample,
- Statement of purpose
- GRE with preferred scores of at least 153V (61st percentile)
- Transcripts
- CV or resume

Curriculum Requirements

Total Minimum hours: 51 credit hours post-masters

- **Core - 6 credit hours**
- **Course Requirements - 33 creditd hours**
- **Research Tool Requirement - 6 credit hours minimum**
- **Dissertation - 6 credit hours minimum**

Core Requirements (6 Credit Hours)

- COM 6001 Theories and Histories of Communication **Credit Hours: 3**
- COM 7325 Seminar in Communication Research Methods **Credit Hours: 3**

Requirements (33 Credit Hours)

In addition to the six (6) hours of core requirements, students are required to take a minimum of 33 hours of coursework beyond the M.A. degree (not counting credits for dissertation research). Six (6) hours of graduate coursework must be in an area of study outside the



department. Students must enroll in and successfully complete a minimum of 12 hours designated as Ph.D. Seminars (COM 7933 Seminar in Communication Studies) as part of their elective coursework.

Research Tool Requirement (6 Credit Hours)

In addition to COM 7325 Seminar in Communication Research Methods , complete an additional six (6) hours of coursework to fulfill the research tool requirement. If students elect to take both Qualitative and Critical Methods, they must take an additional methods course (3 hours) subject to the approval of their major professor.

Qualifying Exam Requirement

All students must pass a written and oral qualifying examination covering the student's area of specialization and methodological competence. This examination will be prepared and evaluated by the student's supervisory committee

Dissertation (6 Credit Hours Minimum)

In consultation with the major professor and supervisory committee, students will select a dissertation topic and write and orally defend a dissertation proposal. Upon completion of the dissertation, the student must pass an oral defense.

- SPC 7980 Dissertation: Doctoral **Credit Hours: 2-19**

Other Requirements

1. Establish a supervisory faculty committee consisting of a major professor and at least two additional members from the Department of Communication and at least one member outside the Department of Communication. The supervisory committee must be approved by the Director of Graduate Studies.
2. Prepare a Plan of Study approved by the student's supervisory committee. The Plan of Study expresses the ways in which the student will show evidence of the following:
 - expertise in one of the central domains of communication study;
 - expertise in the research methodologies needed to carry out original research in the specialized area of concentration



Department of English

Major



Creative Writing, M.F.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: English

Contact Information: <http://www.grad.usf.edu/majors>

The **Master of Fine Arts in Creative Writing** is a graduate-level major that emphasizes the craft of writing and concentrates on the student's original work. The MFA typically will take three years for the student to complete. Our goal is to help MFA students to produce publishable theses and secure teaching or editing positions upon graduation.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below. Students accepted into the program will begin coursework in the fall. No applications will be considered for spring or summer admission.

- Bachelor's degree in English or related field, with a 3.20 average, or its equivalent
- Three (3) letters of recommendation, preferably from former English instructors, assessing the student's potential to do graduate level work
- A writing sample consisting of 12-20 pages:
 - Prose should be double spaced. Indicate genre (fiction, memoir)
 - Poetry should be single spaced
 - A sample that includes both prose and poetry is permitted if the student plans to specialize in more than one genre
 - Hybrid, graphic, text/image works and comics are invited (format is left up to the author)
- A two-to-three page personal statement, describing the student's background, purpose for attending graduate studies, and career goals
- Interest in a Graduate Assistantship should be noted in the personal statement
- Candidates with a BA degree in a field other than English may be required to take undergraduate surveys in English and American Literature. Coursework will be determined by the Graduate Director in consultation with the student

Curriculum Requirements

Total Minimum Hours: 45 Credit Hours

- **Core Requirements - 6 Credit Hours**
- **Additional Required Courses - 30 Credit Hours**
- **Thesis - 9 Credit Hours Minimum**

The distribution of the requirements includes

- 18 hours in writing workshops and craft seminars and
- 12 hours in pedagogy and literature courses



Core Requirements (6 Credit Hours Minimum)

Must be taken in the student's first or second semester of graduate studies.

- ENG 6009 Introduction to Graduate Study **Credit Hours: 3**
- ENC 6745 Teaching Practicum **Credit Hours: 3**

Additional Required Courses (30 Credit Hours)

Select six courses (18 Credit Hours) from the following:

- CRW 6130 Fiction Writing **Credit Hours: 3** (May be taken up to three times for a maximum of 9 credits)
- CRW 6331 Poetry Writing **Credit Hours: 3** (May be taken up to three times for a maximum of 9 credits)
- CRW 6236 Nonfiction Writing **Credit Hours: 3** (May be taken up to three times for a maximum of 9 credits)
- CRW 6164 The Craft of Fiction **Credit Hours: 3**
- CRW 6352 The Craft of Poetry **Credit Hours: 3**
- CRW 6025 Special Topics in Creative Writing **Credit(s): 3** (The Craft of Nonfiction)
- CRW 6025 Special Topics in Creative Writing **Credit Hours: 3** (This course concentrates on screenwriting, translation, editing, creative writing pedagogy (with a community service component), or study of a particular genre or technique.) May be taken up to four times for a maximum of 12 Credit Hours)

Select four (4) courses (12 Credit Hours) in any combination of the courses below:

CRW 6025 Special Topics in Creative Writing **Credit Hours: 3** Taken as "Practice in Teaching Creative Writing (3 Credits)"

- CRW 6726 Practicum in Literary Editing and Publishing **Credit Hours: 3**
- ENG 6946 Internship **Credit Hours: 3** (Required of students participating in the graduate internship program)
Any graduate-level (6000 or above) literature courses offered by the English Department. These courses are coded AML 6---, ENL 6---, and LIT 6---

Comprehensive Exam

Students do not take a written comprehensive exam. The thesis introduction serves in lieu of the comprehensive exam.

Thesis (9 Credit Hours Minimum)

The student must be registered in at least 3 hours of ENG 6971 during the semester prior to graduation.

Complete a book-length manuscript in creative nonfiction, fiction, poetry, comics, or hybrid work that will meet departmental and university requirements for the thesis. The thesis shall consist of at least 40 pages of poems (single- or double-spaced), at least 100 pages of prose, or, in a hybrid work, a length determined in consultation with the thesis director. All students must write a three-to-ten-page introduction to their thesis that explains their goals for the work.

- ENG 6971 Thesis: Master's **Credit Hours: 2-19 (9 credits for the program)** taken in the student's final year of study



English, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations

Literature
Rhetoric and Composition

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Arts and Sciences

Department: English

Contact Information: <http://www.grad.usf.edu/majors>

The M.A. in English with a concentration in Literature is a continuation of the B.A. with greater depth in literary knowledge and an introduction and implementation of methods, standards, and conventions of scholarship on literature. It is a generalist degree with broad-based distribution requirements, but it has the flexibility to study cutting-edge theories and newly emerging fields of interests (including cultural and comparative studies, ethnic literatures, and genre studies such as film). The department also offers a M.A. in English with a concentration in Rhetoric and Composition. It is designed to produce teacher-scholars who have solid, foundational knowledge of critical theory, PTC theory and practice, and composition pedagogy, as well as a specialized knowledge in their field of concentration.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- B.A. in English
- A competitive Verbal aptitude score on the GRE general test, with a target Analytical Writing score of 4.0 (while the Quantitative score is not a determining factor in our admission decisions, both the Verbal and Quantitative score are factors in some university scholarships and fellowships)
- Undergraduate GPA 3.50
- Three (3) letters of recommendation
- Scholarly writing sample of approximately 2500 words (ten double-spaced pages) excluding bibliography or works cited; applicants may excerpt from a longer essay. Generally, the committee seeks to review academic writing from an English course.
- A two-to-three page personal statement describing the student's background, purpose for attending graduate studies, and career goals

All materials, including GRE scores and transcripts, must be received by the application deadline in order for students to be considered for admission. Graduates of USF do not need to order official transcripts. Applications are reviewed by an admissions committee. Students will be notified of the admissions decision within four to six weeks after the deadline.

Curriculum Requirements

Total Minimum Hours -33 Credit Hours



- **Core Requirements – 6 Credit Hours**
- **Concentration – 21 Credit Hours (Literature) / 12 Credit Hours (Rhetoric)**
- **Electives - 3 Credit Hours (Literature) / 9 Credit Hours (Rhetoric)**
- **Non-thesis (Literature) - 3 Credit Hours / Thesis (Rhetoric) - 6 Credit Hours**

Core Requirements (6 Credit Hours)

- ENG 6009 Introduction to Graduate Study **Credit Hours: 3** (*this should be taken in the first semester of coursework*)
- ENC 6745 Teaching Practicum **Credit Hours: 3**

Concentration Requirements:

Students must select from the following concentrations:

Literature Concentration (21 Credit Hours)

Select one of the following:

- ENG 6018 Studies in Criticism and Theory I **Credit Hours: 3**
- ENG 6019 Studies in Criticism and Theory II **Credit Hours: 3**

Historical Distribution* (12 credits)

Select one course from each of the following areas:

One Medieval or Renaissance (including 17th Century)

- ENL 6206 Studies in Old English **Credit Hours: 3**
- ENL 6216 Studies in Middle English **Credit Hours: 3**
- ENL 6226 Studies in Sixteenth-Century British Literature **Credit Hours: 3**
- ENL 6228 Studies in Seventeenth-Century British Literature **Credit Hours: 3**

One 18th Century (Either British Tradition or Literature of the Americas)

- AML 6017 Studies in American Literature to 1860 **Credit Hours: 3**
- ENL 6236 Studies in Restoration and Eighteenth-Century British Literature **Credit Hours: 3**

One 19th Century (Either British Tradition or Literature of the Americas)

- AML 6018 Studies in American Literature 1860 to 1920 **Credit Hours: 3**
- ENL 6246 Studies of the English Romantic Period **Credit Hours: 3**
- ENL 6256 Studies in Victorian Literature **Credit Hours: 3**

One 20th Century (Either British Tradition or Literature of the Americas)

- AML 6027 Studies in Modern American Literature **Credit Hours: 3**
- ENL 6276 Studies in Modern British Literature **Credit Hours: 3**
- LIT 6096 Studies in Contemporary Literature **Credit Hours: 3**

Cultural & Critical Studies* - 6 credit hours

Select two (2) courses in ethnic literature (including African-American, Latino/a, post-colonial), world literature, women's literature or gender studies, critical theory, film, or genre)

- AML 6608 Studies in African American Literature **Credit Hours: 3**



- ENG 6067 History of the English Language **Credit Hours: 3**
- LIT 6934 Selected Topics in English Studies **Credit Hours: 1-6**
Or other graduate course approved by the Graduate Director.

**Of the six courses in Historical Distribution and Cultural & Critical Studies, two must be from British traditions and two from American traditions.*

Rhetoric and Composition Concentration (12 Credit Hours)

- ENC 6336 Studies in the History of Rhetoric **Credit Hours: 3**
- ENC 6421 Studies in Rhetoric and Technology **Credit Hours: 3**
- ENC 6700 Studies in Composition Theory **Credit Hours: 3**
- ENC 6720 Studies in Composition Research **Credit Hours: 3**

Electives (3 Credit Hours Minimum)

No CRW courses will be allowed in the Literature Concentration. One Directed Study may be used to substitute for degree requirement with the approval of the Graduate Director.

Students in the Rhetoric and Composition Concentration select three courses within Literature or Rhetoric and Composition from the following (9 credit hours):

- ENC 6261 Professional and Technical Communication **Credit Hours: 3**
- ENC 6333 Contemporary Rhetorics **Credit Hours: 3**
- ENC 6422 New Media Production **Credit Hours: 3**
- ENC 6740 Theory and Development of Writing Programs **Credit Hours: 3**
- LAE 6375 Contemporary Composition Studies **Credit Hours: 3**
- LAE 5932 Selected Topics in the Teaching of English **Credit Hours: 3**

Non-Thesis Option (3 Credit Hours Minimum)

Students in the **Literature Concentration** complete a portfolio and portfolio defense. Three directed study hours to prepare portfolio. In their fourth and final semester (excluding summer terms), students will submit a portfolio for review to a two-member faculty committee six weeks prior to the Office of Graduate Studies deadline for thesis/dissertation submission. Upon submission, the student and chair of the committee will establish a defense date with the Graduate Program Specialist.

The portfolio will contain the following:

- An introductory first-person essay.
- Two revised seminar papers 5000-6000 words in length.

Papers should be developed under the direction of two different faculty members from the English Department, who then will form the committee for the defense. The portfolio will be reviewed and evaluated by this two-member faculty committee using the published assessment rubric. There will be a required Oral Defense.

- ENG 6916 Directed Research **Credit Hours: 1-19** (3 Credit Hours)

Thesis Option (6 Credit Hours Minimum)

Students in the **Rhetoric and Composition Concentration** complete a Thesis or Portfolio on a Rhetoric and Composition subject plus an oral defense.



The thesis – 40-50 pages– should be based on student's specialization in Rhetoric and Composition. This manuscript can be a revision and extension of a course paper or conference paper. It must contribute to the discipline by advancing scholarly discussions in Rhetoric and Composition studies and offering new knowledge.

- ENG 6971 Thesis: Master's **Credit Hours: 2-19** (6 Credit Hours)

Comprehensive Exam

Students in the Literature Concentration complete a capstone requirement/portfolio, including an oral defense, in lieu of a comprehensive exam. For students in the Rhetoric and Composition Concentration, the thesis defense serves in lieu of a comprehensive exam.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



English, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Literature
Rhetoric and Composition

Contact Information

College: Arts and Sciences

Department: English

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. in English with a concentration in Literature seeks to produce teacher-scholars who have a sound general knowledge of British and American literature and a specialized knowledge of their fields of concentration. Each student in the program must take courses in teaching college English. These courses in teaching are practicums that include actual teaching experience.

The Ph.D. in English with a concentration in Rhetoric and Composition seeks to equip teacher-scholars with both a robust familiarity with critical, literary, and rhetorical theory and with the pedagogical experiences requisite for quality instruction. Students will specialize their studies toward a particular field of concentration.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- M.A. from an accredited university
- A competitive Verbal aptitude score on the GRE general test, with a target Analytical Writing score of 4.0 (while the Quantitative score is not a determining factor in our admission decisions, both Verbal and Quantitative scores factor in some university scholarships and fellowships)
- GPA – minimum 3.70 graduate GPA
- Three (3) letters of recommendation, at least two of these letters should be from professors who have taught the applicant at the graduate level
- A two-to-three page personal statement describing the student's background, purpose for attending graduate studies, and career goals
- A scholarly writing sample of approximately 2500 words (ten double-spaced pages) excluding bibliography or works cited; applicants may excerpt from a longer essay. Generally, the committee seeks to review academic writing from an English course.

Curriculum Requirements

The Ph.D. in English involves a minimum of 30 hours of coursework beyond the M.A. degree, exclusive of credits devoted to the foreign language requirement and additional credit hours for the doctoral dissertation. After completing the necessary course work, students must complete a portfolio. Students passing the portfolio and fulfilling the foreign language requirement are then admitted to doctoral candidacy. Upon the completion and approval of the dissertation, students will defend the dissertation in an oral examination. After successful completion of the dissertation and defense, students are awarded the doctoral degree.



Total Minimum hours: 42 hours minimum Post-Master's

- **Core - 6 Credit Hours**
- **Concentration - 9 Credit Hours (Literature) / 20 Credit Hours (Rhetoric)**
- **Electives - 10 Credit Hours (Literature) / 12 Credit Hours (Rhetoric)**
- **Dissertation - 10 Credit Hours Minimum**

Core Requirements (6 Credit Hours)

- ENG 6005 Scholarly Research and Writing **Credit Hours: 3**
- ENC 6745 Teaching Practicum **Credit Hours: 3**

Concentration Requirements

Students select from the following concentrations:

Literature Concentration (9 Credit Hours)

Select one of the following:

- ENG 6018 Studies in Criticism and Theory I **Credit Hours: 3** (May have been taken at the MA level)
- ENG 6019 Studies in Criticism and Theory II **Credit Hours: 3** (May have been taken at the MA level)

One theory-rich course chosen from the following:

- ENC 6336 Studies in the History of Rhetoric **Credit Hours: 3**
 - ENG 6018 Studies in Criticism and Theory I (3 Credit Hours)
 - ENG 6019 Studies in Criticism and Theory II (3 Credit Hours)
- Or other graduate courses designated theory-rich in the Department's Graduate Bulletin or otherwise approved by the Graduate Director.

And then also:

- ENG 7939 Doctoral Seminar **Credit Hours: 1** (3 Credit Hours)
Must be taken three times. The first seminar credit is taken with the Director of Graduate Studies the first semester. One credit is taken in conjunction with a course. The final seminar is taken with a member of the student's portfolio committee.

Rhetoric & Composition Concentration (32 Credit Hours)

- ENC 6336 Studies in the History of Rhetoric **Credit Hours: 3**
- ENC 6421 Studies in Rhetoric and Technology **Credit Hours: 3**
- ENC 6700 Studies in Composition Theory **Credit Hours: 3**
- ENC 6720 Studies in Composition Research **Credit Hours: 3**

And then also:

- ENG 7939 Doctoral Seminar **Credit Hours: 1**
Must be taken twice (two credits total) in conjunction with a three-credit course; the two courses plus the two seminar credits total 8 credits

Electives (12 Credit Hours Minimum)



Students in the Literature Concentration select courses from the English Dept., in consultation with the Graduate Director.

Students in the Rhetoric and Composition Concentration select four or five courses from the following (12-15 credit hours, dependent upon whether ENC 6745 was taken at the MA level):

- ENC 6261 Professional and Technical Communication **Credit Hours: 3**
- ENC 6333 Contemporary Rhetorics **Credit Hours: 3**
- ENC 6422 New Media Production **Credit Hours: 3**
- ENC 6740 Theory and Development of Writing Programs **Credit Hours: 3**
- LAE 6375 Contemporary Composition Studies **Credit Hours: 3**

Foreign Language Requirement

Demonstrated proficiency in one foreign language by one of the following means:

- Place beyond Level IV in a language placement test (administered by World Language Education)
- Earn a B or better in one of the graduate courses Reading for French, Spanish, or German
- Earn a B or better in two semester courses of an intermediate foreign language (e.g. Spanish III and Spanish IV)
- Earn a B or better in a fourth semester language course (e.g. Spanish IV)
- Earn a B or better in a second semester Latin course

Qualifying Exam

For students in the **Literature Concentration**, the portfolio and its oral defense serve in lieu of a qualifying exam and together form a required stage to advance to candidacy. Each doctoral literature student designs a portfolio in close consultation with professors in her/his field(s) during the first and second years of the program, culminating normally in the third year in a submission of diverse written items that show the student's knowledge, writing, and critical thinking in her/his selected general and more specific areas of specialization (by period, genre, topics, or other meaningful groupings). An oral defense of these items is scheduled soon after submission.

Students in the **Rhetoric and Composition Concentration**, after completing 30 hours of coursework, the language requirement, and all incomplete grades, may take the Ph.D. qualifying examination. The standardized exam will be offered twice each academic year for all eligible students and consists of:

- A 24-hour take-home exam divided into four written sections (1,000 words apiece), the content of which corresponds to the four core courses: Composition Theory, Research Methods, Rhetoric and Technology, and Historical Rhetorics. Questions will be available in Canvas office at 9:00 a.m. on the day of the exam. Questions will be digitally submitted to the exam chair by 9:00 a.m. on the following day for SafeAssign (or other software as approved by University and Department) submission in Canvas.
- A manuscript suitable for publication in a specified scholarly journal (7,000-8,500 words) to be turned in at the same time as the 24-hour exam. The topic of the manuscript should be based on the student's specialization in Rhetoric and Composition. This manuscript can be a revision of a course paper or conference paper or an extension of their project from the Scholarly Writing and Research class. It must contribute to the discipline by advancing scholarly discussions in Rhetoric and Composition studies and offering new knowledge.

Both parts of the exam carry equal weight. All exams will be assessed by a rotating committee of at least 3 Rhetoric and Composition faculty representing different areas of disciplinary expertise. Every exam question will be graded by each member of the committee, although emphasis will be placed upon readers' areas of specialization when determining the final score for each question.



Dissertation (10 Credit Hours Minimum)

- ENG 7980 Dissertation: Doctoral **Credit Hours: 2-19** (Minimum of 10 dissertation hours (no maximum), plus oral defense)



Department of History

Major



History, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

American History
Ancient History
European History
Latin American History
Medieval History

Contact Information

College: Arts and Sciences

Department: History

Contact Information: <http://www.grad.usf.edu/majors>

The Department of History at the University of South Florida in Tampa offers MA applicants an enriching program of study, coursework, and directed research.

A master's degree in History can prepare students for a variety of careers in the public and private sectors where research, critical thinking, and writing skills are especially important.

Major Research Areas:

American History to 1877; American History post-1877; Ancient History; Digital Humanities; Early Modern Europe and the World; Latin American History; Medieval History; Modern Europe and the World; Russian History.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- **Letters of Recommendation:** Two letters of recommendation on behalf of the applicant are required. These letters should come from academic sources familiar with the quality of the applicant's academic work and indicate his/her graduate program potential.
- **Statement of Purpose:** A statement is required that delineates historical and intellectual areas of interest, proposed fields of study, educational and professional goals, the faculty with whom the applicant is potentially interested in working, and why the applicant sees him/herself as a good fit with the program.
- **Writing Sample:** A sample of written work which indicates the applicant's ability to write effectively, to conduct historical research and analysis must be submitted. Appropriate examples include a term paper, research paper, or thesis chapter.

Curriculum Requirements

Total Minimum Hours: 33

- **Core Requirements - 6 Credit Hours**
- **Major Field Concentrations – 9 Credit Hours**



- **Minor Field of Study Electives - 6 Credit Hours**
- **Electives - 6 Credit Hours**
- **Thesis/non-thesis – 6 hours**

Core Requirements (6 Credit Hours)

- HIS 6112 Analysis of Historical Knowledge **Credit Hours: 3**
- HIS 6939 Seminar in History **Credit Hours: 3**
Historical Research and Publication (3 Credit Hours) (Proposed HIS 6905)

Major Field Concentrations (9 Credit Hours)

Students may select from the following Concentrations. Other courses may be included if approved by the Graduate Director.

American History

Select from the following options:

- HIS 6939 Seminar in History **Credit Hours: 3**
Age of Jackson (3 Credit Hours)
Civil War (3 Credit Hours)
Immigration and Ethnicity (3 Credit Hours)
Slavery and Freedom in the United States Before the Civil War (3 Credit Hours)
The Sixties (3 Credit Hours)
The US and Russia in the 20th Century (3 Credit Hours)
U.S. Transnational History 1900-1945 (3 Credit Hours)
U.S. 1865-1920 (3 Credit Hours)
U.S. in the Cold War, 1945-2000 (3 Credit Hours)
- AMH 6199 Nineteenth-Century United States History **Credit Hours: 3**
- HIS 6925 Colloquium in History **Credit Hours: 3**
The Irish in America (3 Credit Hours)
Colloquium - Topics vary (3 Credit Hours)

Ancient History

Select from the following options:

- HIS 6939 Seminar in History **Credit Hours: 3**
Ancient Navies (3 Credit Hours)
Death, Burial and the Afterlife in Antiquity (3 Credit Hours)
Religions of the Ancient Mediterranean (3 Credit Hours)
Thucydides (3 Credit Hours)
Digital Public Archeology (3 Credit Hours)
- AFH 6300 Roman North Africa **Credit Hours: 3**
- DIG 6774C Virtual Museums **Credit Hours: 3**
- DIG 6834C Digital Antiquity **Credit Hours: 3**



- HIS 6925 Colloquium in History **Credit Hours: 3**
Classical Greece (3 Credit Hours)
Digital Archeology (3 Credit Hours)
Age of Alexander (3 Credit Hours)
Roman Empire (3 Credit Hours)
Advanced Latin for Ancient Historians (3 Credit Hours)
Classical Greece (3 Credit Hours)

European History

Select from the following options:

- HIS 6939 Seminar in History **Credit Hours: 3**
British Empires, 1500-Today (3 Credit Hours)
Popular Culture: Europe 1400-1700 (3 Credit Hours)
Early Modern Europe (3 Credit Hours)
Empire and Ethnicities (3 Credit Hours)
Approaches to Global and World History (3 Credit Hours)
Global History of Communism (3 Credit Hours)
The Inquisition: Spain and America (3 Credit Hours)
Immigration and Ethnicity (3 Credit Hours)
Twentieth Century Europe (3 Credit Hours)
The Soviet Union in WWII (3 Credit Hours)
Women and Gender in the Mediterranean World, 1400-1700 (3 Credit Hours)
- HIS 6925 Colloquium in History **Credit Hours: 3**

Latin American History

Select from the following options:

- HIS 6939 Seminar in History **Credit Hours: 3**
Spanish Atlantic (3 Credit Hours)
The Inquisition: Spain and America (3 Credit Hours)
Sex, Crime, and Drugs in Latin America (3 Credit Hours)
Latin America in the 1960's (3 Credit Hours)
- HIS 6925 Colloquium in History **Credit Hours: 3**
(Topics vary)

Medieval History

Select from the following options:

- HIS 6939 Seminar in History **Credit Hours: 3**
The Medieval World (3 Credit Hours)
History of the Crusades (3 Credit Hours)
Medieval Crime and Punishment (3 Credit Hours)
Medieval Mediterranean (3 Credit Hours)
Medieval Egypt and North Africa (3 Credit Hours)



- HIS 6925 Colloquium in History **Credit Hours: 3**
(Topics Vary)

Minor Field of Study Electives (6 Credit Hours)

Students select six (6) hours in a minor field of study that complements the concentration.

Electives (6 Credit Hours)

Students must complete additional hours in graduate courses in History or in another department at USF.

Other Requirements

Students may take a maximum of three hours in HIS 6914 Directed Research and/or HIS 6908 Independent Study and/or HIS 6925 Colloquia. Exceptions can be made with the approval of the major professor and Graduate Director.

M.A. students must select an advisor in their anticipated major field of study. Students will arrange their program of study and schedules of appropriate courses in consultation with their major professor.

Students need to demonstrate satisfactory progress or they will be removed from the program, consistent with department procedure.

Language Requirement

Students may need to demonstrate proficiency in a language other than English, consistent with the requirements of their field.

Thesis and Non-Thesis Options (6 Credit Hours)

Students may select either a thesis or non-thesis option.

Thesis

- HIS 6971 Thesis: Master's **Credit Hours: 2-19** (3 Credit hours)
In lieu of two other courses, students may write a Master's Thesis, enrolling in HIS 6971.

Non-Thesis

Any combination that totals six hours:

- HIS 6939 Seminar in History **Credit Hours: 3**
- HIS 6925 Colloquium in History **Credit Hours: 3**
- HIS 6914 Directed Research **Credit Hours: 1-19 (3 Credit Hours)**
- HIS 6908 Independent Study **Credit Hours: 1-19 (3 Credit Hours)**

Comprehensive Examinations:

Students will be assessed in their major and minor fields through a written comprehensive exam. An oral exam may be administered, if a field examiner (USF faculty member) is unsatisfied with the state of the student's comprehension of the field.



Department Handbook

<http://history.usf.edu/data/ma-program-manual.pdf>



History, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: History

Contact Information: <http://www.grad.usf.edu/majors>

The Department of History at the University of South Florida in Tampa offers Ph.D. applicants an enriching program of study, coursework, and directed research.

A Ph.D. degree in History can prepare students for a variety of careers in the public and private sectors where research, critical thinking, and writing skills are especially important.

Major Research Areas:

American History to 1877; American History post-1877; Ancient History; Digital Humanities; Early Modern Europe and the World; Latin American History; Medieval History; Modern Europe and the World; Russian History.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- **Letters of Recommendation:** Three letters of recommendation on behalf of the applicant are required. These letters should come from academic sources familiar with the quality of the applicant's scholarly work and indicate his/her PhD program potential.
- **Statement of Purpose:** A statement is required that delineates historical and intellectual areas of interest, proposed fields of study, educational and professional goals, the faculty with whom the applicant is potentially interested in working, and why the applicant sees him/herself as a good fit with the program.
- **Sample of Writing:** A sample of written work that indicates the applicant's ability to write effectively and to conduct historical research and analysis must be submitted. Appropriate examples include a publication, seminar paper, or thesis chapter.
- **Language:** Applicants will provide evidence of proficiency in the foreign language(s) of their field(s) of study.

Curriculum Requirements

Total Minimum Hours: 75 Credit Hours Post-Baccalaureate (42 hours Post-Masters)

Post-Master's requirements

- **Core Requirements – 6 Credit Hours**
- **Major Field – 9 Credit Hours Minimum**
- **Minor Field – 3 Credit Hours Minimum**
- **Electives in other disciplines – 6 Credit Hours**
- **Dissertation – 18 Credit Hours**



Students entering for the post-baccalaureate option must complete the equivalent requirements for the M.A. in History at USF. Students entering the doctorate who have not satisfactorily completed HIS 6112 Analysis of Historical Knowledge or its equivalent must complete this course in addition to the post-master's requirements.

Core Requirements (6 Credit Hours)

- HIS 7937 Interdisciplinary Ph.D. Pro-Seminar **Credit Hours: 3**
- HIS 7938 Ph.D. Capstone Seminar **Credit Hours: 3**

Major Field Studies (9 Credit Hours Minimum)

- HIS 6939 Seminar in History **Credit Hours: 3**
- HIS 7939 Selected Topics for Doctoral Students **Credit Hours: 3**
Or other graduate courses approved by the Graduate Director.

Minor Field Studies (3 Credit Hours Minimum)

- HIS 6939 Seminar in History **Credit Hours: 3**
- HIS 7939 Selected Topics for Doctoral Students **Credit Hours: 3**
Or other graduate courses approved by the Graduate Director.

Electives (6 Credit Hours Minimum)

Students will enhance their major or minor areas of specialization with six credits of elective courses. They may include interdisciplinary courses within the department, courses outside the department, or a combination of these. These courses should be chosen in consultation with the student's advisor, and with the approval of the Graduate Director.

Other Requirements

Students may take a maximum of three hours each in HIS 6914 Directed Research and HIS 6908 Independent Study. Exceptions can be made with the approval of the major professor and Graduate Director.

Ph.D. students must select an advisor in their anticipated major field of study. Students will arrange their program of study and schedules of appropriate courses in consultation with their major professor.

Students need to demonstrate satisfactory progress or they will be removed from the program, consistent with department procedure.

Language Requirement for Ph.D. Students

Students may need to demonstrate proficiency in a language other than English, consistent with the requirements of their field(s).

- ANG 5486 Quantitative Methods in Anthropology **Credit Hours: 3**
- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**
- LIN 7639 Quantitative Methods in Applied Linguistics **Credit Hours: 3**
- POS 6736 Research Design **Credit Hours: 3**
- MAT 5932 Selected Topics **Credit Hours: 1-4 (3 credits for this program)**
- Or other graduate course approved by Graduate Director



Comprehensive Qualifying Exam

Students will be examined in their major and minor fields through a written exam. An oral exam may be administered, if a field examiner (USF faculty member) is unsatisfied with the state of the student's comprehension of the field.

Dissertation Defense

Students must complete an oral dissertation defense with the members of the dissertation committee. Faculty from fields other than History may serve on dissertation committees.

Dissertation (18 Credit Hours)

- HIS 7980 Ph.D. Dissertation **Credit Hours: 1-9 (18 credits for this program)**



Department of Humanities and Cultural Studies

Major



Liberal Arts, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Africana Studies
American Studies
Film Studies
Florida Studies
Humanities
Social and Political Thought

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Arts and Sciences

Departments:

Humanities and Cultural Studies
School of Interdisciplinary Global Studies

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Arts offers students an opportunity to study from an interdisciplinary perspective the ideas and works that have shaped world culture. Six program concentrations are available: Africana Studies, American Studies, Film Studies, Florida Studies, Humanities, Social and Political Thought.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE Recommended.
- Writing Sample
- Personal Statement
- Letters of Recommendation are recommended
- Students must select a concentration at the time of application

Curriculum Requirements

Total Minimum Hours- 33

- **Core requirements – 6 Credit hours**
- **Concentration – 9 Credit hours**
- **Electives – 12 Credit hours**
- **Thesis / Non-Thesis Project – 6 hours**

Core Requirements (6 Credit Hours)



- HUM 6814 Introduction to Graduate Study **Credit Hours: 3**
- HUM 6815 Research Seminar **Credit Hours: 3**

Concentration Requirements

Students select from the following concentrations:

Africana Studies Concentration (9 Credit Hours)

- AFA 6120 Social Theory and Social Thought **Credit Hours: 3**
- AFA 6108 Social Construction of Race and Racism **Credit Hours: 3**
- AFA 6932 Topics in Africana Studies **Credit Hours: 3**

American Studies Concentration (9 Credit Hours)

- AMS 6156 Theories and Methods of Cultural Studies **Credit Hours: 3**
- AMS 6254 Cultural Era **Credit Hours: 3**
- AMS 6805 Enduring Questions in American Culture **Credit Hours: 3**

Film Studies Concentration (9 Credit Hours)*

*Students entering the MA program from the USF BA in Humanities, Film Studies Concentration, who have already taken these courses at the undergraduate level may have these requirements waived and will instead complete graduate electives in place of HUM 6586, HUM 6583, and HUM 6584.

- HUM 6586 Film Theory **Credit Hours: 3**
- HUM 6583 Global Cinema and New Media to 1960 **Credit Hours: 3**
- HUM 6584 Global Cinema and New Media since 1960 **Credit Hours: 3**

Florida Studies Concentration

Students choose nine credit hours from the following list of courses:

- HIS 6925 Colloquium in History **Credit Hours: 3**
- HIS 6939 Seminar in History **Credit Hours: 3**
- AMS 6026 Florida and Regional Studies **Credit Hours: 3**
- HIS 5114 Spanish Paleography I **Credit Hours: 3**
- HIS 5116 Spanish Paleography II **Credit Hours: 3**
- EVR 6072 Florida Springs **Credit Hours: 3**
- GEA 6195 Seminar in Advanced Regional Geography **Credit Hours: 3**
- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**
- LIT 6934 Selected Topics in English Studies **Credit Hours: 1-6**
- AML 6017 Studies in American Literature to 1860 **Credit Hours: 3**

Humanities Concentration (9 Credit Hours)

- HUM 6801 Theories and Methods of Cultural Studies **Credit Hours: 3**



Students select 6 hours from the following:

- HUM 6939 Selected Topics in Humanities **Credit Hours: 1-3 (3 credits for this program)**
- HUM 6588 Themes and Genres in Film and New Media **Credit Hours: 3**
- HUM 6475 Studies in Contemporary Arts and Letters **Credit Hours: 3**
- Or other course approved by the Graduate Director (3 Credit hours)

Social and Political Thought Concentration (9 Credit Hours)

- ANG 6701 Contemporary Applied Anthropology **Credit Hours: 3**
- INR 6690 Research Seminar in Globalization **Credit Hours: 3**
- WST 6560 Advanced Feminist Theory **Credit Hours: 3**
- SPW 5135 Colonial Spanish American Literature **Credit Hours: 3**
- PHM 6265 Continental Philosophy I: Phenomenology of Hermeneutics **Credit Hours: 3**
- PHM 6266 Continental Philosophy II: Political and Social Theory **Credit Hours: 3**
- PHI 6425 Seminar in the Philosophy of Social Science **Credit Hours: 3**
- PHM 6105 Seminar in Social Philosophy **Credit Hours: 3**
- PHM 6305 Seminar in Political Philosophy **Credit Hours: 3**
- PHM 6406 - Seminar in the Philosophy of Law **Credit(s): 3**
- PHM 6506 Seminar in the Philosophy of History **Credit Hours: 3**
- PHP 6624 Adorno **Credit Hours: 4**
- PHP 6645 Foucault **Credit Hours: 4**
- POT 6007 Seminar in Political Theory **Credit Hours: 3**
- Or other courses approved by the Graduate Director

Electives (12 Credit Hours)

Students complete 12 credit hours of electives selected from a menu of courses approved by the Program Director.

Thesis/Non-Thesis (6 Credit Hours Minimum)

Students choose a thesis or non-thesis option.

Thesis

A minimum of six (6) credit hours is required.

- AFA 6971 Thesis **Credit Hours: 2-19**
 - AMS 6971 Thesis: Master's **Credit Hours: 2-19**
 - ENG 6971 Thesis: Master's **Credit Hours: 2-19**
 - EVR 6971 Thesis: Master's **Credit Hours: 2-19**
 - HIS 6971 Thesis: Master's **Credit Hours: 2-19**
 - HUM 6971 Thesis: Masters **Credit Hours: 2-19**
- Or other thesis course as approved by the Graduate Director

Non-Thesis



Additional six (6) hours of graduate coursework at the 6000-level, selected in consultation with the Graduate Director.

Comprehensive Exam

For students in the thesis option, successful submission and defense of the thesis proposal or final thesis serves in lieu of the Comprehensive Exam. For students in the non-thesis option, successful submission and defense of a capstone project proposal serves in lieu of the Comprehensive Exam.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Department of Journalism and Digital Communication

Major



Digital Journalism and Design, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences
Department: Journalism and Digital Communication (JDC)
Contact Information: <http://www.grad.usf.edu/majors>

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.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A baccalaureate degree in Journalism or related field from an 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.
- 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.
- Passing a digital-skills evaluation exam given by the department. Applicants should score at least 80%.

Curriculum Requirements

Total Minimum Hours: 33 Credit Hours

- **Core Requirements - 12 Credit Hours**
- **Electives - 15 Credit Hours Minimum**
- **Project - 3 Credit Hours (plus 3 additional elective credit hours)**
- **Thesis - 6 Credit Hours**

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

Core Requirements (12 Credit Hours)

- JOU 6114 Multimedia Reporting **Credit Hours: 3**
- MMC 6206 Mass Communications Ethics **Credit Hours: 3**
- MMC 6400 Mass Communication Theory **Credit Hours: 3**
- MMC 6612 Seminar: Law and the Mass Media **Credit Hours: 3**



Electives - 15 Credit Hours Minimum

- JOU 6135 Video Storytelling 1 **Credit Hours: 3 ***
- JOU 6360 Digital Media Technology **Credit Hours: 3 ***
- GEB 6118 Business Enterprise **Credit Hours: 3 ***
- MMC 5146 Web Publishing **Credit Hours: 3**
- PGY 5619 Photojournalism I **Credit Hours: 3**
- RTV 5416 Race, Gender, Class issues in Media **Credit Hours: 3**
- VIC 6007 Visual Communication Theory **Credit Hours: 3**
- MMC 6306 International Communications Seminar **Credit Hours: 3**
- JOU 6501 Media Management **Credit Hours: 3**
- MMC 6136 Video Storytelling 2 **Credit Hours: 3**
- MMC 6936 Selected Topics in Mass Communications **Credit Hours: 3**
Topics:
 - *Data Visualization**
 - *Data Storytelling**
 - *Multimedia Production**
 - Food Writing
 - Journalists in the Movies
 - Magazine Design and Production
 - Media and Elections
 - Neighborhood NEws
 - Photojournalism
 - Sizzling Images
 - Social Media
 - Sports Journalism
 - Video Storytelling 2

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

Comprehensive Examination

The thesis defense or project is serves in lieu of the Comprehensive Exam.

Project (3 Credit Hours Minimum)

Students opting for the Applied Research Project complete three (3) credit hours of MMC 6950 and an additional 3 credit hours of electives.

- MMC 6950 Applied Research Project **Credit Hours: 1-6**

Thesis Option (6 Credit Hours Minimum)

- MMC 6971 Thesis: Master's **Credit Hours: 2-3**



Department of Philosophy

Major



Philosophy, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Philosophy and Religion

Contact Information

College: Arts and Sciences

Department: Philosophy

Contact Information:

<http://www.grad.usf.edu/majors>

<http://philosophy.usf.edu/>

The Philosophy program at the University of South Florida aims to produce teachers and scholars with a deep understanding of philosophy and a broad knowledge of its history. We welcome a diversity of approaches to the study of philosophy, including analytic, continental, historical, literary, and multicultural. Above all, we seek to prepare our students to make contributions in their areas of expertise and to become responsible members of the philosophical community.

Major Research Areas:

Aesthetics

Analytic Philosophy

Ancient Greek Philosophy

Continental Philosophy

Epistemology

Ethics & Contemporary Moral Philosophy

Feminist Philosophy

Medieval Philosophy

Modern Philosophy

Philosophy of Mind

Philosophy and Religion

Philosophy of Science

Social & Political Philosophy

19th and 20th Century Philosophy

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- three (3) letters of recommendation
- A ten (10) page philosophy writing sample
- Brief statement of the Applicant's Philosophical Interests
- GRE scores

Curriculum Requirements



Total Minimum hours: 30 Credit hours

- **Core – 6 Credit Hours**
- **General Course Requirements or Concentration– 15 Credit Hours minimum**
- **Additional Electives – 6 Credit Hours minimum**
- **Thesis – 3 Credit Hours**

Core Requirements (6 Credit Hours)

- PHH 6105 Seminar in Ancient and Medieval Philosophy **Credit Hours: 3** (3 Credit Hours)
- PHH 6310 Seminar in 17th and 18th Century Philosophy **Credit Hours: 3** (3 Credit Hours)

General Course Requirements or Concentration (15 Credit Hours)

Students must select either the General Course Requirements option or the Philosophy and Religion Concentration Option.

General Course Requirements Option

Students must complete one of the following:

- PHI 5135 Symbolic Logic **Credit Hours: 3**
Or approved substitute graduate course
Or pass an examination administered by the Department of Philosophy. Students who pass the exam in lieu of PHI 5135 will complete an additional elective for 3 hours.

Students must complete at least one course or graduate seminar in each of the following areas:

- 19th and 20th Century Philosophy
- Epistemology and Philosophy of Science
- Value Theory and Social & Political Philosophy
- Metaphysics, Mind, and Language

Courses are selected from the following list, or other graduate course as approved by the Graduate Director.

- PHH 6645 Contemporary Continental Philosophy **Credit Hours: 4** (3 Credit Hours)
- PHH 6677 Seminar in German Idealism **Credit Hours: 3** (3 Credit Hours)
- PHH 6938 Seminar in the History of Philosophy **Credit Hours: 3**
PHI 5135 Symbolic Logic (3 Credit Hours)
- PHI 5225 Philosophy of Language **Credit Hours: 3**
- PHI 5934 Selected Topics **Credit Hours: 1-3**
- PHI 6305 Seminar in Epistemology **Credit Hours: 3**
- PHI 6405 Seminar in the Philosophy of Natural Science **Credit Hours: 3**
- PHI 6425 Seminar in the Philosophy of Social Science **Credit Hours: 3** (3 Credit Hours)
- PHI 6506 Seminar in Metaphysics **Credit Hours: 3**
- PHI 6605 Seminar in Ethics **Credit Hours: 3**
- PHI 6665 Metaethics **Credit Hours: 3**
- PHI 6686 Climate Change and Societal Evolution **Credit Hours: 3**
- PHI 6808 Seminar in Aesthetics **Credit Hours: 3**
- PHM 6265 Continental Philosophy I: Phenomenology of Hermeneutics **Credit Hours: 3**
- PHM 6266 Continental Philosophy II: Political and Social Theory **Credit Hours: 3**



- PHM 6305 Seminar in Political Philosophy **Credit Hours: 3**
- PHP 6005 Plato **Credit Hours: 3**
- PHP 6015 Aristotle **Credit Hours: 3**
- PHP 6405 Seminar in Descartes' Philosophy **Credit Hours: 4** (3 Credit Hours)
- PHP 6415 Kant **Credit Hours: 3**
- PHP 6505 Seminar on Hegel's Philosophy **Credit Hours: 3** (3 Credit Hours)
- PHP 6525 Nietzsche and the Nietzscheans **Credit Hours: 4**
- PHP 6624 Adorno **Credit Hours: 4** (3 Credit Hours)
- PHP 6645 Foucault **Credit Hours: 4**
- PHH 6825 SEminar on Chinese Philosophy Credit Hours: 3 (proposed as PHH 6825)
- PHI 6945 Graduate Instruction Methods **Credit Hours: 1-3** (may be repeated up to three times for credit)
- PHI 6908 Directed Research **Credit Hours: 1-19**

Philosophy and Religion Concentration

- RLG 6035 Theory and Methods in Religious Studies **Credit Hours: 3**

And one course from each of the following areas:

- Religion in History
- Religion: Ethics, Politics, and Culture

Courses are selected from the following list or as approved by the Graduate Director.

- RLG 6126 Religion in America **Credit Hours: 3**
- RLG 6143 Religion, Culture, and Society **Credit Hours: 3**
- RLG 6189 Comparative Religious Ethics **Credit Hours: 3**
- RLG 6196 Religion and Modernization **Credit Hours: 3**
- RLG 6285 Studies in Biblical Archaeology **Credit Hours: 3**
- RLG 6327 Seminar: Ancient Religions and Literatures **Credit Hours: 3**
- RLG 6438 Modern Christian Thought **Credit Hours: 3**
- RLG 6906 Independent Study **Credit Hours: 1-3**
- RLG 6938 Special Topics in Religious Studies **Credit Hours: 2-4**
- PHH 6825 Seminar on Chinese Philosophy Credit Hours: 3 (proposed as PHH 6825)
- PHI 6945 Graduate Instruction Methods **Credit Hours: 1-3** (may be repeated up to three times for credit)
- PHI 6908 Directed Research **Credit Hours: 1-19**

Students must complete one course or graduate seminar in Philosophy from the following area, as approved by the Graduate Director:

- Value Theory and Social and Political Philosophy

Students must complete one additional course or graduate seminar from either Philosophy or Religious Studies. When Possible, a course in Non-Western Philosophy or World Religions is recommended.

Language Competency

Students should develop reading knowledge of at least one language other than English relevant to their philosophical work. The level of competence required is to be determined by consultation with thesis advisor (if applicable) and the Graduate Director.



Comprehensive Examination

Students complete a culminating project of either a Thesis OR a comprehensive examination on a required list of readings constructed by the candidate and a committee of examiners. For thesis students, the thesis defense serves in lieu of the comprehensive exam. Students completing the MA requirements while enrolled in the Ph.D. program may instead submit a portfolio of three seminar papers, to be evaluated by a committee of at least three members of the Philosophy graduate faculty.

Electives (6 Credit Hours)

May include Independent Study, Graduate Teaching Methods, language coursework, additional thesis work, or additional graduate coursework as approved by the Graduate Director.

Thesis (3 Credit Hours)

- PHI 6971 Thesis: Master's **Credit Hours: 2-19**



Philosophy, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentration:

Philosophy and Religion

Contact Information

College: Arts and Sciences

Department: Philosophy

Contact Information: <http://www.grad.usf.edu/majors>

The Philosophy program at University of South Florida aims to produce teachers and scholars with a deep understanding of philosophy and a broad knowledge of its history. We welcome a diversity of approaches to the study of philosophy, including analytic, continental, historical, literary, and multicultural. Above all, we seek to prepare our students to make contributions in their areas of expertise and to become responsible members of the philosophical community.

Major Research Areas:

Aesthetics
Analytic Philosophy
Ancient Greek Philosophy
Buddhist Philosophy
Confucian Thought
Continental Philosophy
Epistemology
Ethics and Contemporary Moral Philosophy
Feminist Philosophy
Medieval Philosophy
Modern Philosophy
Philosophy of Mind
Philosophy and Religion
Philosophy of Science
Social & Political Philosophy
19th and 20th Century Philosophy

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- three (3) letters of recommendation
- a ten (10) page philosophy writing sample
- GRE Scores
- A brief statement of the applicant's philosophical interests

Curriculum Requirements



Total Minimum hours: 82 Credit Hours post-bachelors

- **Core Requirements– 6 Credit Hours**
- **General Course or Concentration Option – 30 Credit Hours**
- **Additional Electives – 34 Credit Hours**
- **Dissertation Credit Hours – 12 Credit hours**

Core Requirements (6 Credit Hours)

- PHH 6105 Seminar in Ancient and Medieval Philosophy **Credit Hours: 3** (3 Credit Hours)
- PHH 6310 Seminar in 17th and 18th Century Philosophy **Credit Hours: 3** (3 Credit Hours)

General Course or Concentration Option (30 Credit Hours)

Student must select either the General Course Option or the Philosophy and Religion Concentration Option.

General Course Requirements Option

Students must complete a minimum of ten (10) additional courses or graduate seminars subject to the following requirements:

- PHI 5135 Symbolic Logic **Credit Hours: 3**
Or an approved substitute
At least one course or graduate seminar in each of the following areas:
 - 19th and 20th Century Philosophy
 - Epistemology and Philosophy of Science
 - Value Theory and Social & Political Philosophy
 - Metaphysics, Mind, and LanguageCourses are selected from the following list, or other course as approved by the Graduate Director:
 - PHH 6645 Contemporary Continental Philosophy **Credit Hours: 4** (3 Credit Hours)
 - PHH 6677 Seminar in German Idealism **Credit Hours: 3** (3 Credit Hours)
 - PHH 6938 Seminar in the History of Philosophy **Credit Hours: 3**
 - PHI 5225 Philosophy of Language **Credit Hours: 3**
 - PHI 5934 Selected Topics **Credit Hours: 1-3**
 - PHI 6305 Seminar in Epistemology **Credit Hours: 3**
 - PHI 6405 Seminar in the Philosophy of Natural Science **Credit Hours: 3**
 - PHI 6425 Seminar in the Philosophy of Social Science **Credit Hours: 3**
 - PHI 6506 Seminar in Metaphysics **Credit Hours: 3**
 - PHI 6605 Seminar in Ethics **Credit Hours: 3**
 - PHI 6665 Metaethics **Credit Hours: 3**
 - PHI 6686 Climate Change and Societal Evolution **Credit Hours: 3**
 - PHI 6808 Seminar in Aesthetics **Credit Hours: 3**
 - PHI 6934 Selected Topics **Credit Hours: 1-3**
 - PHM 6265 Continental Philosophy I: Phenomenology of Hermeneutics **Credit Hours: 3**
 - PHM 6266 Continental Philosophy II: Political and Social Theory **Credit Hours: 3**
 - PHM 6305 Seminar in Political Philosophy **Credit Hours: 3**
 - PHP 6005 Plato **Credit Hours: 3**
 - PHP 6015 Aristotle **Credit Hours: 3**



- PHP 6405 Seminar in Descartes' Philosophy **Credit Hours: 4**
- PHP 6415 Kant **Credit Hours: 3**
- PHP 6420 Seminar in Leibniz's Philosophy **Credit Hours: 4** (3 Credit Hours)
- PHP 6505 Seminar on Hegel's Philosophy **Credit Hours: 3** (3 Credit Hours)
- PHP 6525 Nietzsche and the Nietzscheans **Credit Hours: 4** (3 Credit Hours)
- PHP 6624 Adorno **Credit Hours: 4** (3 Credit Hours)
- PHP 6645 Foucault **Credit Hours: 4** (3 Credit Hours)
- PHH 6825 Seminar on Chinese Philosophy Credit Hours: 3 (proposed as PHH 6825)
- PHI 6945 Graduate Instruction Methods **Credit Hours: 1-3** (may be repeated up to three times for credit)
- PHI 6908 Directed Research **Credit Hours: 1-19**

Philosophy and Religion Concentration

Students must complete a minimum of 10 additional courses or graduate seminars subject to the following requirements:

- RLG 6035 Theory and Methods in Religious Studies **Credit Hours: 3**
Or an approved substitute

One Course or Graduate Seminar in Religious Studies from each of the following areas:

- Religion in History
- Religion: Ethics, Politics, and Culture

One course or graduate seminar in Philosophy from the following area:

- Value Theory and Social & Political Philosophy

When possible, a course in Non-Western Philosophy or World Religions is recommended.

Courses as selected from the list provided in the General Course Requirements, or from the following list, or as approved by the Graduate Director:

- RLG 6126 Religion in America **Credit Hours: 3**
- RLG 6143 Religion, Culture, and Society **Credit Hours: 3**
- RLG 6196 Religion and Modernization **Credit Hours: 3**
- RLG 6285 Studies in Biblical Archaeology **Credit Hours: 3**
- RLG 6327 Seminar: Ancient Religions and Literatures **Credit Hours: 3**
- RLG 6189 Comparative Religious Ethics **Credit Hours: 3**
- RLG 6438 Modern Christian Thought **Credit Hours: 3**
- RLG 6906 Independent Study **Credit Hours: 1-3** (*when appropriate to area*)
- RLG 6938 Special Topics in Religious Studies **Credit Hours: 2-4** (*when appropriate to area*)
- PHH 6825 Seminar on Chinese Philosophy Credit Hours: 3 (proposed as PHH 6825)
- PHI 6945 Graduate Instruction Methods **Credit Hours: 1-3** (may be repeated up to three times for credit)
- PHI 6908 Directed Research **Credit Hours: 1-19**

Electives (34 Credit Hours Minimum)

Graduate courses selected in consultation with the Graduate Director.

Language Competency



Students should develop reading knowledge of at least one language other than English relevant to their philosophical work. The language(s) and level of competence required is to be determined by consultation with their prospective major professor and the graduate director. Prior to the beginning of the third semester of matriculation, each student must submit a plan of study indicating the language or languages the student will be applying toward the language competency requirement, the level of competency expected, and a timetable for achieving that level of competency. This plan must be approved by the graduate director and the student's prospective major professor.

Comprehensive Exam

A comprehensive examination on a required list of readings constructed by the candidate and a committee of examiners.

Dissertation (12 Credit Hours Minimum)

- PHI 7980 Dissertation: Doctoral **Credit Hours: 2-19**
 - A written prospectus for the dissertation and an oral defense of the prospectus.
 - A written dissertation and an oral defense of this dissertation.

If the student has selected the Philosophy and Religion Concentration, the dissertation committee must be composed as follows:

1. Either a Major Professor appointed in both Philosophy and Religious Studies, or co-Major Professors, one of whom is appointed in Philosophy and the other of whom is appointed in Religious Studies.
2. At least one other member from Philosophy and one from Religious Studies.



Department of Religious Studies

Major



Religious Studies, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Religious Studies

Contact Information: <http://www.grad.usf.edu/majors>

The M.A. degree in Religious Studies provides opportunities for students with backgrounds in the scholarly study of religion to expand their knowledge of the social, cultural, intellectual, and historical contexts of religion, to develop a greater in-depth knowledge of particular religious traditions, and to acquire proficiency with a variety of pertinent methodologies and theoretical perspectives. The degree serves the needs of students who pursue careers in health professions in education, journalism, law, business, politics, and social work. It will be of special value to those interested in pursuing a doctorate in religious studies.

Major Research Areas: Biblical Studies, Biblical Archaeology, Christianity, Judaism, Mysticism, Philosophy of Religion, Buddhism, Daoism, Confucianism, Hinduism, Chinese Medicine, Religion in Culture and Society, African Religion, African-American Religion, Afro-Caribbean Religion.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Three (3) letters of recommendation, and
- A writing sample
- A personal statement (1-3 pages, double-space)
- GRE required, but no minimum specified

Curriculum Requirements

Total Minimum hours - 30 hours

- **Core – 6 Credit Hours**
- **Additional Required Courses - 12 Credit Hours**
- **Electives – 6 hours minimum**
- **Thesis – 6 hours**
- **Non-Thesis – 6 hours additional electives**

Students select a major professor and develop a plan for completing a **minimum of 30 credit hours**. The thesis track requires six (6) of these credits be devoted to a thesis project. The non-thesis track requires that all 30 credits come from graduate seminars. The plan of study is subject to approval of the Graduate Committee. A majority of these courses will be in religious studies, although the plan may include approved courses in other departments.

There is no uniform language requirement; however, language skills may be required for particular areas of study. All students are required to satisfactorily complete a written, comprehensive examination wherein they demonstrate competence in:

1. pertinent theoretical issues and research methodologies;
2. the analysis and interpretation of related texts, artifacts, and activities; and
3. social and historical contexts of the religions studied.



The Department of Religious Studies "Graduate Student Handbook" should be consulted for additional information about basic requirements and specific procedures.

Core Requirements (6 Credit Hours)

- RLG 6035 Theory and Methods in Religious Studies **Credit Hours: 3**
- RLG 6143 Religion, Culture, and Society **Credit Hours: 3**

Additional Required Courses (12 Credit Hours Minimum)

Six (6) hours of graduate courses in Abrahamic Religions (Christianity, Judaism, or Islam)

Six (6) hours of graduate courses in non-Abrahamic Religions (Hinduism, Buddhism, Daoism, or Confucianism)

Electives (6 Credit Hours)

No more than six (6) hours may come from independent study/directed reading.

No more than six (6) hours may come from departments other than Religious Studies.

Comprehensive Exam

Thesis/Non-Thesis

Thesis (6 Credit Hours)

Students will pass a comprehensive exam prior to defending the master's thesis. They will research, write, and successfully defend the master's thesis before a committee of three professors.

- RLG 6971 Thesis: Master's **Credit Hours: 2-19**

Non-Thesis

Non-Thesis students must complete an additional six (6) hours of electives.

Department Handbook

<http://religious-studies.usf.edu/grad/handbook/>



Department of World Languages

Major



French, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Concurrent Degree

Contact Information

College: Arts and Sciences

Department: World Languages

Contact Information: <http://www.grad.usf.edu/majors>

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- 2-3 letters of recommendation,
- A writing sample in French, and
- An oral interview in French (can be done by phone).
- GRE is not required.

Curriculum Requirements

Total Minimum Hours: 33 hours

- **Core – 6 credit hours**
- **Coursework – 21 credit hours minimum**
- **Non-Thesis – 9 hours**
- **Thesis – 6 hours minimum**

Core Requirements (6 Credit Hours)

- FRW 5829 An Introduction to Modern French Literary Criticism **Credit Hours: 3**
- FRW 6405 Old French **Credit Hours: 3**

Required Coursework (24 Credit Hours Minimums)

Students select from FRW courses that are 5000-level and up, such as those listed below. Students may take up to 9 credits of courses from a different section/department upon approval of the Graduate Director.

- FRW 5222 Classical Prose and Poetry **Credit Hours: 3**
- FRW 5226 20th Century Poetry and Theatre **Credit Hours: 3**
- FRW 5286 The 20th Century Novel **Credit Hours: 3**
- FRW 5314 Classical Drama **Credit Hours: 3**



- FRW 5415 Literature of the Middle Ages **Credit Hours: 3**
- FRW 5425 Literature of the Renaissance **Credit Hours: 3**
- FRW 5445 18th Century Literature **Credit Hours: 3**
- FRW 5535 Romanticism and Early Realism **Credit Hours: 3**
- FRW 5556 Naturalism and Realism **Credit Hours: 3**
- FRW 5745 French Literature of Quebec **Credit Hours: 3**
- FRW 5755 African and Caribbean Literature **Credit Hours: 3**
- FRW 5829 An Introduction to Modern French Literary Criticism **Credit Hours: 3**
- FRW 5934 Selected Topics **Credit Hours: 1-3** (varies)
- Or other courses approved by Graduate Director

Comprehensive Exam

Satisfactory performance on the written comprehensive examination is required.

Non-Thesis (9 Credit Hours Minimum)

Students in the non-thesis option take an additional 9 credit hours of graduate coursework from the French courses listed above, as approved by the Graduate Director.

Thesis (6 Credit Hours Minimum)

Students in the non-thesis option complete an additional 6 hours of graduate coursework.

- FRE 6971 Thesis: Master's **Credit Hours: 2-19 (6 credits for this program)**

Additional requirements

Proficiency in a second foreign language

Other Information

Special Programs Overseas

The Department of World Languages, in cooperation with the USF World, offers several study programs overseas. These include study in several locations in France and Canada. For complete details, contact the graduate advisors or USF World.

Concurrent Degree

Also available as a Concurrent Degree



Linguistics and Applied Language Studies, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: World Languages

Contact Information: <http://www.grad.usf.edu/majors>

This major in Linguistics and Applied Language Studies is designed to train advanced students in the field in using principled, empirical approaches to address language-related issues in the 21st century. Our faculty are equipped to meet the needs of students with diverse interests in the field. Possible careers for graduates from this program include university teaching, language program administration, and industry careers involving linguistic research and analysis. By the end of the major, our students will be able to:

- develop a strong knowledge base in the content areas of this field, including key topics, major lines of inquiry, current trends, and remaining questions;
- develop expertise in critical thinking as well as in oral and written communication for academic and non-academic audiences;
- contribute their expertise to advancing knowledge about the critical role of language(s) in a global society;
- demonstrate mastery of research methods and use these methods to design and conduct independent research on various topics in this field;
- contribute to the advancement of this field through scholarly publications and conference presentations;
- gain experience in teaching undergraduate courses;
- participate in professional activities in this field at national, regional, and local levels.

Major Research Areas:

Applied Language Studies, Applied Linguistics, Corpus linguistics, Discourse analysis, Individual differences, Intercultural communication, Language assessment, Second language acquisition, Second language learning and teaching, Second language phonology, Second language writing, and Text analysis.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- M.A. in Applied Linguistics, Linguistics, TESOL, Second Language Studies, Foreign Languages, or a related field
- Experience with an additional language(s)
- GRE scores (taken within the last five years): Verbal reasoning: 153 (500, approximately 60% percentile); Quantitative reasoning: 144 (500, approximately 20% percentile); Analytical Writing: 4.00.
- GPA of 3.50 or higher in the M.A. degree
- Statement of research interest
- Current curriculum vitae
- A writing sample that shows evidence of research skill. This can be published or unpublished, such as an article, an M.A. thesis, or an M.A. course paper.
- 3 academic references
- Interview with program faculty
- Official transcripts (must provide an official translation if transcripts are not available in English from the degree-granting university)



Curriculum Requirements

Total Minimum Hours: 55 hours Post-Masters

- **Core – 21 Credit Hours**
- **Foundation courses – 6 Credit Hours**
- **Electives – 9 Credit Hours**
- **Directed research – 1 Credit Hour minimum**
- **Dissertation – 18 Credit Hours minimum**

Core Requirements (21 Credit Hours Minimum)

- LIN 6675 The Grammatical Structure of American English **Credit Hours: 3**
- LIN 6720 Second Language Acquisition **Credit Hours: 3**
- LIN 7637 Research and Writing in Applied Linguistics **Credit Hours: 3**
- LIN 7931 Advanced Seminar in Applied Linguistics **Credit Hours: 3**
- LIN 7635 Professional Development **Credit Hours: 3**
- LIN 7638 Qualitative Research Methods in Applied Linguistics **Credit Hours: 3**
- LIN 7639 Quantitative Methods in Applied Linguistics **Credit Hours: 3**

Foundation Courses (6 Credit Hours)

Based on student's prior educational background, recommendations will be made by the admissions committee and implemented by the academic advisor/ pedagogical coordinator. Each student is required to take a minimum of two of the following courses:

- TSL 6253 Applied Linguistics for Teaching ESOL **Credit Hours: 3**
- LIN 6081 Introduction to Graduate Study in Linguistics **Credit Hours: 3**
- TSL 5371 Methods of Teaching English as a Second Language **Credit Hours: 3**
- TSL 5372 ESOL Curriculum and Instruction **Credit Hours: 3**
- TSL 5440 Language Testing **Credit Hours: 3**
- TSL 5525 Cross-Cultural Issues in ESL **Credit Hours: 3**

Electives (9 Credit Hours)

Each student is required to take a minimum of three general electives. These can be from established course numbers or via the LIN 6932 Selected Topics number and include the following:

- LIN 6601 Sociolinguistics **Credit Hours: 3**
- LIN 6722 Writing Processes in Second Languages Acquisition **Credit Hours: 3**
- LIN 6726 Individual Differences in Second Language Acquisition **Credit Hours: 3**
- LIN 6748 Contrastive Analysis **Credit Hours: 3**
- LIN 6932 Selected Topics **Credit Hours: 1-4**

Sample Topics include:

- Discourse Analysis
- English for Academic Purposes/English for Specific Purposes
- Task-Based Language Teaching
- Sound System of English



- Pragmatics for Language Teachers
- Bilingualism/Multilingualism
- Corpus Linguistics
- Language and Technology

Note: In special circumstances, additional courses from the "foundation course electives" group may be taken as electives.

Qualifying Examination (1 Credit Hour minimum)

- LIN 7911 Directed Research - Linguistics and Applied Language Studies **Credit Hours: 1-19** (1-3 Credit Hours)
Students will complete a qualifying examination. Students must enroll in LIN 7911 the semester of writing the qualifying exam paper.

Dissertation Hours (18 Credit Hours Minimum)

- LIN 7980 Dissertation - Linguistics and Applied Language Studies **Credit Hours: 2-19**
Students will complete 18 hours of dissertation research. The student will submit a proposal to the committee members and, once approved, will participate in an oral defense of that proposal. Finally, the student will submit a completed dissertation draft to the committee members and once approved will participate in an oral defense of the dissertation.



Linguistics: English as a Second Language, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Concurrent Degree

Contact Information

College: Arts and Sciences

Department: World Languages

Contact Information: <http://www.grad.usf.edu/majors>

Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. The Department of World Languages currently offers a Master of Arts in Linguistics: English as a Second Language. At USF, our Linguistics and TESL majors are among the oldest in the Sunshine State. Linguistics dates back to the early 1960s, early in USF history, and the applied linguistics major has prepared ESL/ESOL/EFL educators since the 1970s. Our students are prepared for positions teaching second languages to non-native speakers, and our alumni have taught in public and private institutes, here in the Tampa Bay area and around the world. Other graduates have continued their graduate education and earned doctoral degrees, and many of our alumni hold positions of leadership. In short, our graduates have made a name for the linguistics major at USF.

Major Research Areas:

Individual differences, Corpus linguistics, Second language phonology, Second language writing, Second Language Acquisition, Discourse analysis, and second language learning and teaching.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE (taken within the last five years) required with minimum scores of 149 (approximately 40th percentile) V and 4 AW (approximately 50th percentile). Five-year limit may be waived for applicants with a master's degree who have previously taken the GRE.
- Three letters of recommendation,
- A two-page statement of purpose, written by the applicant.
- Curriculum Vitae (CV)

Applicants should note that proficiency in a second language is required by the time of graduation.

Curriculum Requirements

Total Minimum Hours: 36 hours

- **Core Requirements - 24 Credit Hours**
- **Electives - 9 Credit Hours**
- **Internship - 3 Credit Hours**

Core Requirements (24 Credit Hours)



- TSL 6253 Applied Linguistics for Teaching ESOL **Credit Hours: 3**
- LIN 6081 Introduction to Graduate Study in Linguistics **Credit Hours: 3**
- LIN 6675 The Grammatical Structure of American English **Credit Hours: 3**
- LIN 6720 Second Language Acquisition **Credit Hours: 3**
- TSL 5371 Methods of Teaching English as a Second Language **Credit Hours: 3**
- TSL 5372 ESOL Curriculum and Instruction **Credit Hours: 3**
- TSL 5440 Language Testing **Credit Hours: 3**
- TSL 5525 Cross-Cultural Issues in ESL **Credit Hours: 3**

Electives (9 Credit Hours)

Nine hours of approved electives Students select electives in consultation with the graduate adviser.

Internship (3 Credit Hours)

- TSL 6945 Internship **Credit Hours: 1-6**

Non-Thesis

Applied Linguistics (TESL) is a non-thesis track.

Comprehensive Exam

Comprehensive Exam In lieu of a comprehensive exam, per the norm of the field, a three-part Exit Assessment consisting of a Pedagogical Theory (PT) paper, a Classroom Practice & Reflection (CPR) paper, and portfolio of major course assignments and other relevant items is required for the program. Students are required to demonstrate proficiency in a language other than their native language by the end of the major.

Concurrent Degree

Also available as a Concurrent Degree



Spanish, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Concurrent Degree

Contact Information

College: Arts and Sciences

Department: World Languages

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources: <http://languages.usf.edu/graduate/spanish/>

The Spanish Section of the Department of World Languages supports a broad, intellectually-driven approach to teaching language, culture, and literature in higher education. Languages and cultures are complex, multifunctional phenomena that link an individual to other individuals, to communities and to national cultures. The graduate major in Spanish offers students academic and practical training in the languages, literatures and cultures of the Spanish-speaking communities of Spain, Latin America, and the United States. Students who receive a Masters of Arts in Spanish from the Department of World Language Education at USF become well-educated communicators with deep translingual and transcultural competence. Thus, they are exceptionally prepared to either continue studies leading to the Ph.D., or find careers in related fields such as the teaching profession, translation, government, civil service agencies, legal and paralegal services, or foreign and domestic business enterprises.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Three letters of recommendation
- A two-page statement of purpose in Spanish
- An oral interview in Spanish (can be done by phone, video, Skype, etc.)
- Approval from the Graduate Director in case of degree from another discipline

Curriculum Requirements

Total Minimum Hours 36

- **Core - 6 credit hours**
- **Electives - 24 credit hours**
- **Non-Thesis/Thesis Option - 6 credit hours**

Core Requirements (6 Credit Hours)

- SPW 6806 Introduction to Hispanic Graduate Studies **Credit Hours: 3**
- SPN 5525 Modern Spanish American Civilization **Credit Hours: 3**

Electives (24 Credit Hours)



Students will take twenty-four (24) semester hours in SPN or SPW graduate courses. Students may substitute up to nine (9) semester hours with courses in a related area, as approved in advance by the Graduate Director.

- SPW 5135 Colonial Spanish American Literature **Credit Hours: 3**
- SPW 5339 Golden Age Drama **Credit Hours: 3**
- SPW 5375 Latin American Short Story **Credit Hours: 3**
- SPW 5387 Spanish American Prose **Credit Hours: 3**
- SPW 5405 Medieval Literature **Credit Hours: 3**
- SPW 5465 19th Century Literature **Credit Hours: 3**
- SPN 5525 Modern Spanish American Civilization **Credit Hours: 3**
- SPW 5597 Latin American Culture in Fantastic Literature and Film **Credit Hours: 3**
- SPW 5605 Cervantes **Credit Hours: 3**
- SPW 5725 Generation of 1898 **Credit Hours: 3**
- SPW 5934 Selected Topics **Credit Hours: 3**
- SPW 6427 Golden Age Novel **Credit Hours: 3**
- SPW 6485 Post Civil War Literature **Credit Hours: 3**
- SPN 6845 History of the Spanish Language **Credit Hours: 3**
- SPN 6846 Spanish Paleography and Textual Criticism **Credit Hours: 3**
- SPW 6775 Caribbean Literature **Credit Hours: 3**
- SPW 6910 Directed Research **Credit Hours: 1-19**

Non-Thesis (6 credit hours)

Students who choose the non-thesis option complete an additional six (6) credit hours of electives.

Thesis (6 Credit Hours)

- SPW 6971 Thesis: Master's **Credit Hours: 2-19 (6 credits for this program)**

Comprehensive Exam

Successful completion of a comprehensive exam (typically taken in the second semester of the second year). The comprehensive exam is administered in writing. Students will answer questions on literary works and cultural topics selected from a list of works or from questions prepared by the faculty.

Department Handbook

To obtain a copy of the Masters of Arts in Spanish handbook, please visit the Department of World Languages in CPR 419.

Concurrent Degree

Also available as a Concurrent Degree



College of Arts and Sciences: School of Natural Sciences and Mathematics

College of Arts and Sciences: School of Natural Sciences and Mathematics

For the College of Arts and Sciences, programs are listed with the Schools offering them and Graduate Certificates are listed with the College.

Refer to the College section for further information, policies, and requirements.

Also refer to:

- College of Arts and Sciences - Graduate Certificates
 - School of Humanities Programs
 - School of Natural Sciences and Mathematics Programs
 - School of Social Sciences Programs

School of Natural Sciences and Mathematics Programs

Programs offered from the School of Natural Sciences and Mathematics are listed below.

| |
|--------------|
| Major |
|--------------|



Biology, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Cell Biology and Molecular Biology
Ecology and Evolution
Environmental and Ecological Microbiology
Physiology and Morphology

Contact Information

College: Arts and Sciences

Departments:

Cell Biology, Microbiology, and Molecular Biology
Integrative Biology

Contact Information: <http://www.grad.usf.edu/majors>

Because of the many undergraduate courses that require hands-on experimental laboratories, both CMMB and IB support many graduate students as Teaching Assistants. CMMB and IB values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members depending on an individual faculty members funding. Numerous scholarship opportunities are also offered on a competitive basis through the USF Office of Graduate Studies.

Application to the Biology Major is through one of the two departments, with students selecting a formal Concentration. Refer to the Concentration listing in the Catalog for specific information and requirements.

The Department of Integrative Biology is committed to train the next generation of graduate students to prepare them for professional success in the biological sciences. Our program of graduate study is designed to foster the development of technical and analytical skills used in existing and emerging fields of discovery. The Department of Integrative Biology emphasizes learning and teaching about the interactions, across all scales, among humans and other diverse organisms in a range of environments. These interactions mediate the resilience of natural biotic systems, and enhance the sustainability of products and processes that are beneficial to ecosystems and consequently to human well-being. Thus, our mission is to create new knowledge and promote learning about ecosystem health and sustainability.

The mission of the Department of Cell Biology, Microbiology and Molecular Biology (CMMB) is to prepare graduate students for professional careers in academia, government or industry in the areas of Cell Biology, Microbiology, and Molecular Biology. We pursue excellence in the following programmatic research areas: genome integrity and mechanisms of aging, bacterial pathogenesis and resistance, structural and computational biology.

Major Research Areas: Cell Biology, Molecular Biology, Signal Transduction and Gene Regulation, Cancer Biology, Developmental Biology, Microbiology, Ecology and Evolution, Environmental and Ecological Microbiology, Physiology and Morphology

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Prospective students must apply to the Biology M.S. major with a specific concentration via the online application process through the USF Office of Admissions.



- GRE: Preferred scores of 155V (69th percentile), 150Q (38th percentile), 4.5AW
- Acceptance by a faculty member in the IB or CMBB Department is MANDATORY. The Departments will make every effort to pair potential graduate students with appropriate faculty; however, it is recommended that applicants make direct contact with individual faculty via email to indicate an interest in the research being conducted in their laboratory.
- It is expected that candidates for the M.S. degrees will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.
- Interviews may be required.
- Three letters of recommendation from faculty in sealed envelopes (on their university letterhead) with the envelope seal signed by the recommender. Students shall complete a **Student Recommendation Form** that can be found on the CMMB and IB website and submit it to the recommenders.
- A brief essay stating your intended field of research and professional goals. Please indicate your specific research interests, in order that we may refer your application to appropriate CMMB or IB faculty members. In the essay, please list 2-3 CMMB or IB faculty members that you would like to have review your file.
- Applicant must complete the Application for Teaching Assistantship (TA) Form that can be found on the Department website if they wish to be considered for a TA position. Applicants who do not return this form will not be considered for a teaching position. Applicants should attach a resume to the Application for Teaching Assistantship (TA) Form that highlights any previous teaching experience.

Curriculum Requirements

The Master's Degree Requirements should be completed in two to three years. Students must choose a specific concentration in the M.S. degree that will be completed within either the CMMB or IB Department.

Total Minimum Hours - 30 post-bachelor's

- **Core Requirements - 6 credit hours**
- **Concentration (required) - 15 credit hours minimum**
- **Non-Thesis (electives) or Thesis (Seminar/Thesis) - 9 credit hours minimum**

Core Requirements (6 Credit Hours)

- BSC 6393 Advances in Life Sciences **Credit Hours: 1** (taken 3 times)
- BSC 6930 Lectures in Contemporary Biology **Credit Hours: 1**
(Taken three times)

Concentration Requirements

Students must select one of the following Concentrations.

Cell Biology and Molecular Biology (15 credit hours minimum)

- BMS 6300 Principles of Immunology and Infectious Diseases **Credit Hours: var.**
- BSC 6939 Selected Topics in Cancer Biology **Credit Hours: 1-4**
Advances in Cell and Molecular Biology (2 credit hours)
- BSC 6936 Scientific Grant Writing **Credit Hours: 3 ***
**Thesis students are required to take this course*



Students select courses (10 hours minimum) from the following, or other graduate course approved by the supervisory committee:

- BSC 5931 Selected Topics in Biology **Credit Hours: 1-4**
Eukaryotic Genomics (3 credit hours)
Molecular Microbial Ecology (3 credit hours)
Prokaryotic Molecular Genetics (3 credit hours)
- BSC 5425 Genetic Engineering and Recombinant DNA Technology **Credit Hours: 3**
- MCB 5206 Public Health and Pathogenic Microbiology **Credit Hours: 3**
- MCB 5208 Cellular Microbiology **Credit Hours: 3**
- MCB 5655 Applied and Environmental Microbiology **Credit Hours: 3**
- MCB 5815 Medical Mycology **Credit Hours: 3**
- PCB 5256 Developmental Mechanisms **Credit Hours: 3**
- PCB 5616 Molecular Phylogenetics **Credit Hours: 3**
- PCB 6107 Advanced Cell Biology **Credit Hours: 4**
- PCB 6236 Advanced Immunology **Credit Hours: 4**
- PCB 6525 Molecular Genetics **Credit Hours: 3**

Ecology and Evolution (15 credit hours minimum)

- BSC 6849 Graduate Skills in Biology **Credit Hours: 3**

Course work selected from the list below, or other graduate course approved by the Graduate Committee. The graduate student, major professor and Graduate committee will establish the specific courses for each graduate student. Specific course training beyond this point will be determined in each individual case by the special needs of the student as decided by the student's Graduate Committee.

- BSC 5931 Selected Topics in Biology **Credit Hours: 1-4**
Comparative Approaches in Evolution (3 credit hours)
Marine Botany (4 credit hours)
- PCB 6447 Community Ecology **Credit Hours: 3**
- PCB 6426C Population Biology **Credit Hours: 3**
- ZOO 6455 Advances in Ichthyology **Credit Hours: 1**
- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**
Advances in Marine Ecology (1 credit hour)
Scientific Writing (2 credit hours)
Advances in Population Biology (1 credit hour)
Advances in Herpetology (1 credit hour)
- PCB 6456C Biometry **Credit Hours: 4**
- PCB 6458 Biometry II **Credit Hours: 3**
- ZOO 5463C Herpetology **Credit Hours: 4**
- PCB 6939 Seminar in Ecology **Credit Hours: 1-3**

Environmental and Ecological Microbiology (15 credit hours minimum)

- BSC 6849 Graduate Skills in Biology **Credit Hours: 3**

Course work selected from the list below, or other graduate course approved by the Graduate Committee. The graduate student, major professor and Graduate committee will establish the specific courses for each graduate student. Specific course training



beyond this point will be determined in each individual case by the special needs of the student as decided by the student's Graduate Committee.

- BSC 5931 Selected Topics in Biology **Credit Hours: 1-4**
Genomics (4 credit hours)
- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**
Advances in Environmental Ecology (1 credit hour)
- MCB 5206 Public Health and Pathogenic Microbiology **Credit Hours: 3**
- MCB 5655 Applied and Environmental Microbiology **Credit Hours: 3**
- MCB 6930 Graduate Microbiology Seminar **Credit Hours: 1**
Applied and Ecological Microbiology (1 credit hour)
- PCB 6930 Current Topics in Cancer Biology **Credit Hours: 2**
Principles of Immunology (3 credit hours)
- PCB 6525 Molecular Genetics **Credit Hours: 3**
- PCB 6458 Biometry II **Credit Hours: 3**
- PCB 6455 Statistical Ecology **Credit Hours: 3**

Physiology and Morphology (15 credit hours minimum)

- BSC 6849 Graduate Skills in Biology **Credit Hours: 3**

Course work selected from the list below, or other graduate course approved by the Graduate Committee. The graduate student, major professor and Graduate committee will establish the specific courses for each graduate student. Specific course training beyond this point will be determined in each individual case by the special needs of the student as decided by the student's Graduate Committee.

- BSC 5931 Selected Topics in Biology **Credit Hours: 1-4**
Comparative Approaches in Education (3 credit hours)
Ecological and Functional Morphology (3 credit hours)
- ZOO 6455 Advances in Ichthyology **Credit Hours: 1**
- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**
Advances in Physiology (1 credit hour)
Ecoimmunology (3 credit hours)
Ornithology (3 credit hours)
Physiology of Movement (3 credit hours)
Ichthyology (4 credit hours)
- PCB 6365C Physiological Ecology **Credit Hours: 4**
- BSC 6936 Scientific Grant Writing **Credit Hours: 3**
- PCB 5256 Developmental Mechanisms **Credit Hours: 3**
- ZOO 5463C Herpetology **Credit Hours: 4**

Comprehensive Oral Qualifying Examination

A comprehensive examination (thesis proposal, seminar/presentation and defense of thesis proposal) is required for all master's students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two semesters of matriculation and the exam is normally taken after the completion of all formal course work. Thesis students must take the examination at least one semester before the thesis is presented.

Non-Thesis (9 credit hours)



For students enrolled in the non-thesis program a minimum of 9 hours of elective courses taken beyond the concentration and core requirements, and a review paper of a topic approved by the supervisory committee is required as well as successful completion of the comprehensive oral qualifying exam after all course work has been completed. For non-thesis master's students, this exam will occur at the end of the program of study.

Thesis (9 hours)

- BSC 6935 Graduate Seminar in Biology **Credit Hours: 1**

All thesis students must present a seminar to the Department and must be enrolled in BSC 6935, during the final semester. The seminar should be a concise summary of the research completed to satisfy the requirements for the M.S. Degree. The seminar is open to the general public and must be announced two weeks prior to the presentation. Upon completion of the seminar, the general public will be invited to ask questions. At the discretion of the student's graduate committee, members of the committee may continue to question the graduate student after the general public has departed the seminar room. Each student is expected to defend his/her research to the unanimous satisfaction of the graduate committee.

Seminar requirement: One presentation, excluding the thesis seminar and defense. Students should present posters or oral presentations based on their thesis research at national/regional professional meetings. The student's graduate committee must approve the presentation.

Presentation of the thesis seminar (BSC 6935) and successful defense of the thesis.

- BSC 6971 Thesis: Master's **Credit Hours: 2-19** (8 credit hours minimum)

Submission of a thesis proposal and approval by the major professor, graduate committee and graduate director.

A minimum of eight (8) thesis research credit hours (BSC 6971). Thesis research should be publishable and students are encouraged to publish their findings.

Degree Progress

A student must be registered for an appropriate load (in no case fewer than two [2] graduate hours) in the College for the semester in which all degree requirements are satisfactorily completed. A student who receives three grades below "B" in structured courses required by the advisory committee will be dropped from the program. Registration in courses entitled Directed Research; thesis must be with the approval of the major professor and must be commensurate with each student's research plan. Students may not register in Thesis: Master's until a Supervisory Committee has been formed and completed the oral qualifying examination. A student who enrolls in courses entitled Thesis: Master's but does not submit a thesis will not be certified for graduation.

Department Handbooks

Department Handbooks

IB: <http://biology.usf.edu/ib/forms-library/>

CMMB: <http://biology.usf.edu/cmmb/grad/forms/>



Department of Cell Biology, Microbiology, and Molecular Biology

Major



Cancer Biology, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the Ph.D. in Cancer Chemical Biology; Ph.D. in Cancer Immunology and Immunotherapy; and Ph.D. in Integrated Mathematical Oncology.

Contact Information

College: Arts and Sciences

Department: Cell Biology, Microbiology, and Molecular Biology

Contact Information: www.grad.usf.edu

The Cancer Biology Major consists of interdisciplinary training in multiple fields emphasizing the facets which impact cancer. This will prepare students to enter the emerging new technological workforce required to implement biomedical advances that will have a key impact on global health and yield significant societal advantages.

The Major is a joint endeavor between the Moffitt Cancer Center and the University of South Florida. Tremendous advances in the detection and treatment of cancer has occurred through basic research and translational medicine, yet cancer continues to adversely affect millions of people worldwide in terms of quality of life, life span, and economic burden. The Moffitt Cancer Center located at the University of South Florida is a leading institution of basic research, clinical research, and patient treatment with a focused mission "to contribute to the prevention and cure of cancer." The Moffitt Cancer Center is officially designated as a Comprehensive Cancer Center by the National Cancer Institute of the National Institutes of Health.

The Cancer Biology Ph.D. Major's goal is to train the next generation of cancer researchers. Studies of cancer require specific knowledge in multiple fields that have traditionally been independent. Our Cancer Biology Ph.D. Major emulates the Moffitt Cancer Center and eliminates these boundaries. Students receive cancer oriented training in multiple areas include: molecular biology, immunology, functional genomics, bioinformatics, drug discovery & development, cancer genetics, cancer prevention & control, cancer therapeutics, cell biology, biochemistry, and proteomics.

Major Research Areas

genetics, epigenetics, RNA biology, proteomic interrogation of signal transduction pathways, cancer metabolism, tumor microenvironment, cancer imaging techniques, cancer dormancy and metastasis, immunotherapy, cell and molecular biology, signal transduction, functional genomics, proteomics, bioinformatics, and translational cancer therapies

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Extensive background in field of biology or chemistry
- GRE optional
- Advanced coursework and research experience preferred

Stipends

All Cancer Biology Ph.D. students in good standing will receive a highly competitive stipend. All students also receive student health insurance coverage and direct payment in full of all required tuition and required fees. Please visit the Program's website for current stipend levels.



Curriculum Requirements

All students are required to successfully complete the Cancer Biology Major Core Courses. Dissertation Committees may require students to take additional course work if needed to correct deficiencies. In special circumstances the Cancer Biology Education Committee can waive course requirements, if the student has recently completed identical coursework elsewhere. Students are required to achieve a minimum GPA of B in all Cancer Biology Core courses and an overall GPA of 3.00 (B) in order to remain in good standing.

Total Minimum Hours: 96 credit hours

- Shared Core Requirements – 4 hours
- Other Required Courses – 20 hours
- Additional Requirements – 14 hours
- Dissertation – 24 hours
- Other Requirements – 34 hours

Shared Core Requirements (4 Credit Hours)

- PCB 6230 Cancer Biology I - Basics of Molecular Oncology **Credit Hours: 3**
- PCB 6932 Bioethics for Cancer Researchers **Credit Hours: 1**

Other Required Courses (20 Credit Hours)

- PCB 6930 Current Topics in Cancer Biology **Credit Hours: 2**
Current Topics in Oncology (8 credit hours)
- PCB 6231 Cancer Biology II - Immunology and Applied Biology **Credit Hours: 4**
- BSC 6457 Modern Basic Tools of Research **Credit Hours: 2**
- PCB 6205 Cancer Biology III - Cancer Genomics and Drug Discovery **Credit Hours: 3**
- PCB 6526 Cancer Biology IV - Concepts and Techniques in Cancer Genetics **Credit Hours: 3**

Additional Requirements (14 Credit Hours)

- PCB 6910 Cancer Biology Lab Rotations **Credit Hours: 1-3**
- BSC 7911 Directed Research in Cancer Biology **Credit Hours: 1-12 (4-8 credits for this program)**
- PCB 6931 Advances in Cancer Biology Research **Credit Hours: 2 (4-12 credits for this program)**

Qualifying Exam

The required qualifying exam consists of a written research proposal and an oral defense of the proposal by the student.

Dissertation (24 Credit Hours)

Prior to the dissertation defense, students must have an original first-author research report accepted for publication in a peer reviewed scientific journal.

- BSC 7980 Dissertation: Doctoral **Credit Hours: 2-19**

Other Requirements (34 Credit Hours)



Remaining credit hours required to meet the 96 hour minimum for graduation will consist of additional Dissertation hours (BSC 7980), BSC 6939 Selected Topics in Cancer Biology, and/or Program approved electives.

During the first year, students will be required to complete two or three laboratory rotations according to their interest. Laboratory rotations may be for a full semester or 10 weeks for students that choose to do three rotations. Students doing rotations will need to enroll in the laboratory rotation course. If a student has not chosen a major professor after two semesters, they may enroll in an additional summer rotation. Rotations have several purposes. The foremost is to help the students choose a compatible major professor and an exciting research project. A second purpose is for students to develop necessary technical skills. Students will be evaluated by the host professor and the Graduate Advisor will assign a grade to each student at the end of the semester.



Cancer Chemical Biology, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the Ph.D. in Cancer Biology; Ph.D. in Cancer Immunology and Immunotherapy; and Ph.D. in Integrated Mathematical Oncology.

Contact Information

College: Arts and Sciences

Department: Cell Biology, Microbiology, and Molecular Biology

Contact Information: <http://www.grad.usf.edu/majors>

The Cancer Chemical Biology Major consists of focused training in Cancer Medicinal Chemistry and Chemical Biology. Students will also receive interdisciplinary training in the broader field of chemistry & biology through coursework and immersion in the Moffitt Cancer Center's research endeavors. Cancer drug design and discovery will be the key component of the curriculum. The research focuses are (1) design and synthesis of chemical probes to modulate oncogenic targets and pathways, and development of selective chemical probes into novel anticancer drug candidates; and (2) to identify, validate, and characterize targets with therapeutic relevance in refractory and metastatic malignancies.

This Major will provide students a unique foundation of knowledge and practical experience in the rapidly advancing arena of cancer chemical biology. Students will also train alongside individuals studying other areas of cancer biology, providing a unique opportunity to study in a multidisciplinary and highly translational research environment. Graduates of this major will be positioned to enter the technological workforce ready to discover novel probes to unravel the mechanisms underlying oncogenesis and develop innovative anticancer drugs.

The Major is a joint endeavor between the Moffitt Cancer Center and the University of South Florida. Moffitt Cancer Center is located on the campus of the University of South Florida and is a leading institution of basic research, clinical research, and patient treatment with a focused mission "to contribute to the prevention and cure of cancer." The Moffitt Cancer Center is officially designated as a Comprehensive Cancer Center by the National Cancer Institute of the National Institutes of Health.

Major Research Areas

The main research areas include:

- Design and synthesize chemical probes to modulate oncogenic targets and pathways
- Develop potent chemical probes into novel anticancer drug candidates
- Identify, validate, and characterize new targets with therapeutic relevance in refractory and metastatic malignancies using selective chemical probes

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Extensive background in field of chemistry, medicinal chemistry, biochemistry, or pharmaceutical sciences
- GRE optional
- Advanced coursework and research experience preferred

Stipends



All Cancer Chemical Biology Ph.D. students in good standing will receive a highly competitive stipend. All students also receive student health insurance coverage and direct payment in full of all required tuition and required fees. Please visit the Program's website for current stipend levels.

Curriculum Requirements

All students are required to successfully complete the required Core Courses. Dissertation Committees may require students to take additional course work if needed to correct deficiencies. In special circumstances the Cancer Biology Education Committee can waive course requirements, if the student has recently completed identical coursework elsewhere. In such instances, the student will be required to take an equal number of other credits in lieu of the waived requirement. Students are required to achieve a minimum GPA of B in all Core courses and maintain an overall GPA of 3.00 (B) in order to remain in good standing.

Total Minimum Hours: 96 credit hours

- **Shared Core Requirements – 4 credit hours**
- **Other Required Courses – 16 credit hours**
- **Electives – 3 credit hours**
- **Additional Requirements – 15 credit hours**
- **Dissertation - 24 credit hours**
- **Other Requirements – 34 credit hours**

Shared Core Requirements (4 Credit Hours)

- PCB 6230 Cancer Biology I - Basics of Molecular Oncology **Credit Hours: 3**
- PCB 6932 Bioethics for Cancer Researchers **Credit Hours: 1**

Other Required Courses (16 Credit Hours)

- PCB 6930 Current Topics in Cancer Biology **Credit Hours: 2**
Current Topics in Oncology (8 credit hours required)
- BSC 6875 Cancer Drug Discovery **Credit Hours: 3**
- BSC 6457 Modern Basic Tools of Research **Credit Hours: 2**
- CHM 6263 Advanced Organic Chemistry II: Physical-Organic **Credit Hours: 3**

Electives (3 Credit Hours)

- CHM 6250 Advanced Organic Chemistry I: Synthesis **Credit Hours: 3**
- BCH 6746 Structural Biology **Credit Hours: 3**

Additional Requirements: (15 Credit Hours)

- PCB 6910 Cancer Biology Lab Rotations **Credit Hours: 1-3**
- BSC 7911 Directed Research in Cancer Biology **Credit Hours: 1-12 (4-8 credits for this program)**
- PCB 6934 Advances in Cancer Chemical Biology **Credit Hours: 2**

Qualifying Exam



The required qualifying exam consists of a written research proposal and an oral defense of the proposal by the student.

Dissertation (24 Credit Hours)

Prior to the dissertation defense, students must have an original first-author research report accepted for publication in a peer reviewed scientific journal.

- BSC 7980 Dissertation: Doctoral **Credit Hours: 2-19**

Other Requirements (34 Credit Hours)

Remaining credit hours required to meet the 96 hour minimum for graduation will consist of additional Dissertation hours (BSC 7980 Dissertation: Doctoral), BSC 6939 Selected Topics in Cancer Biology, and/or Program approved electives.

During the first year, students will be required to complete laboratory rotations according to their interest. Laboratory rotations are 10 weeks each. Students doing rotations will need to enroll in the laboratory rotation course. If a student has not chosen a major professor after two semesters, they may enroll in an additional summer rotation. Rotations have several purposes. The foremost is to help the students choose a compatible major professor and an exciting research project. A second purpose is for students to develop necessary technical skills. Students will be evaluated by the host professor and the Graduate Advisor will assign a grade to each student at the end of the semester.



Cancer Immunology and Immunotherapy, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the Ph.D. in Cancer Biology; Ph.D. in Cancer Chemical Biology; and Ph.D. in Integrated Mathematical Oncology.

Contact Information

College: Arts and Sciences

Department: Cell Biology, Microbiology, and Molecular Biology

Contact Information: <http://www.grad.usf.edu/majors>

The Cancer Immunology and Immunotherapy Major consists of focused training in tumor immunology and cancer immunotherapy. Students will also receive interdisciplinary training in the broader field of cancer biology through coursework and immersion in the Moffitt Cancer Center's research endeavors. The study of tumor immunology has led to major advances in the understanding of how tumors evade the immune system, resulting in multiple new immunotherapeutic modalities approved by the FDA for the treatment of cancer patients. Students will have the opportunity to conduct innovative research at the molecular and cellular level to reveal opportunities to alter the course of tumor progression.

This Major will provide students a unique foundation of knowledge and practical experience in the rapidly advancing arena of cancer immunotherapy. Students will also train alongside individuals studying other areas of cancer biology, providing a broad base of understanding of cancer and increasing the potential for interdisciplinary research. Graduates of this major will be positioned to enter the technological workforce ready to discover and implement immunological advances that will have a key impact on cancer patient therapy.

The Major is a joint endeavor between the Moffitt Cancer Center and the University of South Florida. Moffitt Cancer Center is located on the campus of the University of South Florida and is a leading institution of basic research, clinical research, and patient treatment with a focused mission "to contribute to the prevention and cure of cancer." The Moffitt Cancer Center is officially designated as a Comprehensive Cancer Center by the National Cancer Institute of the National Institutes of Health.

Major Research Areas

- Research drives discoveries in cancer immunology through basic and translational research in five areas:
- Tumor Immune Microenvironment (innate and adaptive regulatory mechanisms)
- Immune Regulation in Cancer (metabolism, T cell checkpoints)
- Vaccine-Based Therapies (Dendritic Cells, intralésional therapies)
- Adoptive T Cell Therapy (TIL, CAR)
- Hematological Diseases (MDS, graft-vs-host)

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Extensive background in field of biology, immunology, or chemistry
- GRE optional
- Advanced coursework and research experience preferred

Stipends

All Cancer Immunology and Immunotherapy Ph.D. students in good standing will receive a highly competitive stipend. All students also



receive student health insurance coverage and direct payment in full of all required tuition and required fees. Please visit the Program's website for current stipend levels.

Curriculum Requirements

All students are required to successfully complete the required Core Courses and the required Elective hours. Dissertation Committees may require students to take additional course work if needed to correct deficiencies. In special circumstances the Cancer Biology Education Committee can waive course requirements, if the student has recently completed identical coursework elsewhere. In such instances, the student will be required to take an equal number of other credits in lieu of the waived requirement. Students are required to achieve a minimum GPA of B in all Core courses and the required elective course, and maintain an overall GPA of 3.00 (B) in order to remain in good standing.

Total Minimum Hours: 96 credit hours

- **Shared Core Requirements – 4 credit hours**
- **Other Required Courses – 18 credit hours**
- **Electives – 3 credit hours**
- **Additional Requirements – 14 credit hours**
- **Dissertation – 24 credit hours**
- **Other Requirements – 33 credit hours**

Shared Core Requirements (4 Credit Hours)

- PCB 6230 Cancer Biology I - Basics of Molecular Oncology **Credit Hours: 3**
- PCB 6932 Bioethics for Cancer Researchers **Credit Hours: 1**

Other Required Courses (18 Credit Hours)

- PCB 6930 Current Topics in Cancer Biology **Credit Hours: 2**
Current Topics in Oncology (8 credit hours)
- PCB 6231 Cancer Biology II - Immunology and Applied Biology **Credit Hours: 4**
- PCB 6281 Cancer Immunotherapy **Credit Hours: 4**
- BSC 6428 Immunological Techniques for Cancer Research **Credit Hours: 2**

Electives (3 Credit Hours)

- PCB 6205 Cancer Biology III - Cancer Genomics and Drug Discovery **Credit Hours: 3**
- PCB 6526 Cancer Biology IV - Concepts and Techniques in Cancer Genetics **Credit Hours: 3**
- BSC 6875 Cancer Drug Discovery **Credit Hours: 3**

Additional Requirements (14 Credit Hours)

- PCB 6910 Cancer Biology Lab Rotations **Credit Hours: 1-3**
- BSC 7911 Directed Research in Cancer Biology **Credit Hours: 1-12 (4-8 credits for this program)**
- PCB 6936 Advances in Tumor Immunology and Cancer Research **Credit Hours: 2 (4-12 credits for this program)**

Qualifying Exam



The required qualifying exam consists of a written research proposal and an oral defense of the proposal by the student.

Dissertation (24 Credit Hours)

Prior to the dissertation defense, students must have an original first-author research report accepted for publication in a peer reviewed scientific journal.

- BSC 7980 Dissertation: Doctoral **Credit Hours: 2-19 (24 credits for this program)**

Other Requirements (33 Credit Hours)

Remaining credit hours required to meet the 96 hour minimum for graduation will consist of additional Dissertation hours (BSC 7980 Dissertation: Doctoral), BSC 6939 Selected Topics in Cancer Biology, and/or Program approved electives.

During the first year, students will be required to complete laboratory rotations according to their interest. Laboratory rotations are 10 weeks each. Students doing rotations will need to enroll in the laboratory rotation course. If a student has not chosen a major professor after two semesters, they may enroll in an additional summer rotation. Rotations have several purposes. The foremost is to help the students choose a compatible major professor and an exciting research project. A second purpose is for students to develop necessary technical skills. Students will be evaluated by the host professor and the Graduate Advisor will assign a grade to each student at the end of the semester.



Cell and Molecular Biology, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Cell Biology, Molecular Biology and Microbiology

Contact Information: <http://www.grad.usf.edu/majors>

Major Research Areas: Cell Biology, Molecular Biology, Cancer Biology, Signal Transduction and Gene Regulation, Developmental Biology, Applied and General Microbiology

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE: 57th percentile Verbal, 35th percentile Quantitative, 73rd percentile AW
- It is expected that candidates for the Ph.D. degree will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.
- Interview
- Personal Statement of goals, experience
- Three letters of recommendation

Curriculum Requirements

Total Minimum Program Hours: 90

- **Core Requirements – 6 Credit hours**
- **Other courses – 5 Credit hours**
- **Electives – 3 Credit hours**
- **Dir Research – 43 Credit hours**
- **Dissertation – 32 Credit hours**
- **Seminar – 1 Credit hour**

Core Requirements (6 Credit Hours)

- PCB 6525 Molecular Genetics **Credit Hours: 3**
- PCB 6956 Scientific Grant Writing **Credit Hours: 3**

Other Required Courses (5 Credit Hours)

- PCB 6920 Advances in Cell and Molecular Biology **Credit Hours: 1**
- BSC 6930 Lectures in Contemporary Biology **Credit Hours: 1 (1 credit for this program, taken four times for a total of 4 credits)**



Electives* (3 Credit Hours Minimum)

*Classes not on this list may be used with the approval of the CMMB Graduate Director

Selected from:

- PCB 5616 Molecular Phylogenetics **Credit Hours: 3**
- PCB 6107 Advanced Cell Biology **Credit Hours: 4**
- BSC 5425 Genetic Engineering and Recombinant DNA Technology **Credit Hours: 3**
- MCB 5206 Public Health and Pathogenic Microbiology **Credit Hours: 3**
- PCB 6236 Advanced Immunology **Credit Hours: 4**
- PCB 5256 Developmental Mechanisms **Credit Hours: 3**
- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**

Research Requirements (76 Credit Hours Minimum)

- BSC 7910 Directed Research **Credit Hours: 1-19 (43 credit hours minimum)**
- BSC 7980 Dissertation: Doctoral **Credit Hours: 2-19 (32 credit hours minimum)**
- BSC 7936 Doctoral Seminar **Credit Hours: 1**

Qualifying Exams

All students in the Cell and Molecular Biology Ph.D. program must complete a written and oral qualifying examination.

The written exam shall be in the format of a grant proposal and contain the following sections:

- Abstract (300 words)
- Specific Aims [1 page]
- Background and Significance of topics [2 pages]
- Proposed research program (conducted over 3-year period) [4 pages]
- Bibliography (no page limit)

The length of the proposal shall be no more than 7 pages (the abstract and bibliography does not count in the page limit). The topic of the exam shall meet the following guidelines:

- The written proposal *cannot be based in the same model organism* that the student will use to carry out their dissertation research
- The written proposal *cannot be based on the analysis of the same gene/protein* that the student will investigate during their dissertation research
- The written proposal *cannot be based on the analysis of the same pathway* that the student will investigate during their dissertation research

The oral exam is centered around a formal dissertation proposal presentation, followed by a period of questioning by the dissertation advisory committee.

Admission to Candidacy

The doctoral student is eligible for admission to candidacy after completing structured course requirements, passing the qualifying examinations and approval by the supervisory committee. Appropriate forms to document promotion to candidacy must be completed and to the Office of Graduate Studies. Following admission to candidacy, a student must enroll in BSC 7980 Dissertation: Doctoral when engaged in research, data collection, or writing activities relevant to the doctoral dissertation. Advisors should assign the number of



credits in this course in accordance with policy and appropriate to the demands made on faculty, staff, and University facilities, but in no event will the total number of earned dissertation credits be fewer than 32. Students not admitted to candidacy are not eligible to enroll in BSC 7980 Dissertation: Doctoral .

Dissertation Requirements (38 Credit Hours Minimum)

The dissertation of all graduate students admitted to a graduate degree program at the University of South Florida must conform to the guidelines of the Handbook for Graduate Thesis and Dissertations available from the USF Office of Graduate Studies (<https://www.usf.edu/graduate-studies/students/electronic-thesis-dissertation/>).

- BSC 7980 Dissertation: Doctoral **Credit Hours: 2-19**

Doctoral Seminar and Defense

All doctoral students must present a public seminar to the CMMB Department and must be enrolled in BSC 7980, during the semester in which the seminar is given. The seminar should be a concise summary of the research completed to satisfy the requirements for the Ph.D. The seminar is open to the general public and must be announced two weeks prior to the presentation. Upon completion of the seminar, the general public will be invited to ask questions. At the discretion of the student's advisory committee, members of the committee may continue to question the graduate student after the general public has departed the seminar room. Each student is expected to defend his/her research to the unanimous satisfaction of the advisory committee. Following the defense, students will make any editorial modifications to the dissertation as recommended by the advisory committee and submit the dissertation to the Office of Graduate Studies.

Other Requirements

- 1 Scientific Publication
- 2 presentations at Scientific Meetings



Integrated Mathematical Oncology, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the Ph.D. in Cancer Biology; Ph.D. in Cancer Chemical Biology; and Ph.D. in Cancer Immunology and Immunotherapy.

Contact Information

College: Arts and Sciences

Department: Cell Biology, Microbiology, and Molecular Biology (CMMB)

Contact Information: <http://www.grad.usf.edu/majors>

The Integrated Mathematical Oncology Major consists of focused training in mathematical modeling. Students will also receive interdisciplinary training in the broader field of cancer biology through coursework and immersion in the Moffitt Cancer Center's research endeavors. Cancer patient and experimental data have been growing at an exponential rate during the last decade and now incorporates a range of biological scales (molecular, cellular, tissue, organ) and diverse techniques (gene expression, histological staining, imaging), however, these data are severely underutilized in current clinical decision processes. Appropriate quantitative models are essential to understand the complex dynamics of the evolving non-linear system that is cancer.

This Major will provide students a unique foundation of knowledge and practical experience in the rapidly advancing arena of mathematical oncology. Students will also train alongside individuals studying other areas of cancer biology, providing a broad base of understanding of cancer and increasing the potential for interdisciplinary research. Graduates of this major will be positioned to enter the technological workforce ready to discover and implement quantitative models and model analysis in experimental and clinical areas that will have a key impact on cancer patient therapy.

The Major is a joint endeavor between the Moffitt Cancer Center and the University of South Florida. Moffitt Cancer Center is located on the campus of the University of South Florida and is a leading institution of basic research, clinical research, and patient treatment with a focused mission "to contribute to the prevention and cure of cancer." The Moffitt Cancer Center is officially designated as a Comprehensive Cancer Center by the National Cancer Institute of the National Institutes of Health.

Major Research Areas

- Develop phenomenological mathematical models of tumor development, growth and invasion as well as treatment response
- Develop data-driven quantitative models to answer specific biological or clinical questions
- Research project work that include development, implementation, analysis and solution of topic-driven mathematical models

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Extensive background in field of mathematics, engineering, physics, or computer science
- GRE optional
- Advanced coursework and research experience preferred

Stipends



All Integrated Mathematical Oncology Ph.D. students in good standing will receive a highly competitive stipend. All students also receive student health insurance coverage and direct payment in full of all required tuition and required fees. Please visit the Program's website for current stipend levels.

Curriculum Requirements

Total Minimum Hours: 96 credit hours

- **Shared Core Requirements – 4 Credit Hours**
- **Other Required Courses – 17 Credit Hours**
- **Electives – 3 Credit Hours**
- **Additional Requirements – 14 Credit Hours**
- **Dissertation - 24 Credit Hours**
- **Other Requirements – 34 Credit Hours**

All students are required to successfully complete the required Core Courses and the required Elective hours. Dissertation Committees may require students to take additional course work if needed to correct deficiencies. In special circumstances the Cancer Biology Education Committee can waive course requirements, if the student has recently completed identical coursework elsewhere (Editor's note: other graduate coursework would be required instead, unless the course was transferred in). Students are required to achieve a minimum GPA of B in all Core courses and the required elective course, and maintain an overall GPA of 3.00 (B) in order to remain in good standing.

Shared Core Requirements (4 Credit Hours)

- PCB 6230 Cancer Biology I - Basics of Molecular Oncology **Credit Hours: 3**
- PCB 6932 Bioethics for Cancer Researchers **Credit Hours: 1**

Other Required Courses (17 Credit Hours)

- PCB 6930 Current Topics in Cancer Biology **Credit Hours: 2**
- PCB 6205 Cancer Biology III - Cancer Genomics and Drug Discovery **Credit Hours: 3**
- BSC 6939 Selected Topics in Cancer Biology **Credit Hours: 1-4**
- BSC 6882 Integrated Mathematical Oncology I **Credit Hours: 3**
- BSC 6883 Integrated Mathematical Oncology II **Credit Hours: 4**

Electives (3 Credit Hours)

- PCB 6526 Cancer Biology IV - Concepts and Techniques in Cancer Genetics **Credit Hours: 3**
- PCB 6205 Cancer Biology III - Cancer Genomics and Drug Discovery **Credit Hours: 3**
- PCB 6281 Cancer Immunotherapy **Credit Hours: 4**
- BSC 6875 Cancer Drug Discovery **Credit Hours: 3**

Additional Requirements (14 Credit Hours)

- PCB 6910 Cancer Biology Lab Rotations **Credit Hours: 1-3** (1-3 Credit Hours)
- BSC 7911 Directed Research in Cancer Biology **Credit Hours: 1-12** (4-8 Credit Hours)
- BSC 6939 Selected Topics in Cancer Biology **Credit Hours: 1-4**
- BSC 6933 Advances in Integrated Mathematical Oncology **Credit Hours: 2**



Qualifying Exam

The required qualifying exam consists of a written research proposal and an oral defense of the proposal by the student.

Dissertation (24 Credit Hours)

- BSC 7980 Dissertation: Doctoral **Credit Hours: 2-19**

Prior to the dissertation defense, students must have an original first-author research report accepted for publication in a peer reviewed scientific journal.

Other Requirements (34 Credit Hours)

Remaining credit hours required to meet the 96 hour minimum for graduation will consist of additional Dissertation hours (BSC 7980), Selected Topics in Cancer (BSC 6939), and/or Program approved electives.

During the first year, students will be required to complete laboratory rotations according to their interest. Laboratory rotations are 10 weeks each. Students doing rotations will need to enroll in the laboratory rotation course. If a student has not chosen a major professor after two semesters, they may enroll in an additional summer rotation. Rotations have several purposes. The foremost is to help the students choose a compatible major professor and an exciting research project. A second purpose is for students to develop necessary technical skills. Students will be evaluated by the host professor and the Graduate Advisor will assign a grade to each student at the end of the semester.



Microbiology, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Cell Biology, Microbiology and Molecular Biology

Contact Information: <http://www.grad.usf.edu/majors>

The M.S. in Microbiology is administered by the Department of Cell Biology, Molecular Biology and Microbiology. The mission of the Department of Cell Biology, Microbiology and Molecular Biology (CMMB) is to prepare graduate students for professional careers in academia, government or industry in the areas of Cell Biology, Microbiology, and Molecular Biology. We pursue excellence in the following programmatic research areas: genome integrity and mechanisms of aging, bacterial pathogenesis and resistance, structural and computational biology.

Due to the interdisciplinary aspect of most Research projects, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology.

Because of the many undergraduate courses that require hands-on experimental laboratories, CMMB support many graduate students as Teaching Assistants. CMMB values high quality teaching at all levels of support. Research Assistant positions may also be available to support research with specific faculty members depending on an individual faculty members funding. Numerous scholarship opportunities are also offered on a competitive basis through the USF Office of Graduate Studies.

Applying to the Department of Cell Biology, Microbiology and Molecular Biology

Students interested in attending graduate studies within the CMMB Department should visit the CMMB website that can be accessed from the main USF site and review the current CMMB faculty. It is recommended that potential students consider at least two to three (2-3 CMMB faculty that they would be interested in working with and communicate this information in their letter of application. It is also recommended that potential students contact the CMMB Graduate Director as well as the individual faculty members they are interested in working with via email. Such communication will facilitate the assignment of the laboratory rotations that CMMB students will participate in during their first semester of residency and also allow the applicant to determine whether the desired faculty member has positions available in the laboratory.

General Information - All students admitted to the Masters in Microbiology must establish a supervisory committee. The supervisory committee shall constitute the major professor and at least two additional credentialed faculty. At least one of the committee members must be a faculty member at USF. Supervisory committee must be formed within two semesters after matriculation. The CMMB Graduate Director and CMMB Chair must approve the Supervisory Committee. Once a major professor has been assigned and/or a student occupies or utilizes significant space or facilities for research or analogous scholarly activity directly pertinent to the generation of a thesis, the student shall enroll for a minimum of two (2) hours of research credit each semester (other than summer semester), until eligible to enroll in thesis credits.

Major Research Areas: Applied Microbiology, Pathogenic Microbiology, Cellular Microbiology, Molecular Microbiology, Ecological Microbiology

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.



- Preferred minimum scores of 153V (500V on the old test; 61st percentile), and 148Q (600Q on the old test; 30th percentile), 4.5 AW on GRE
- It is expected that candidates for the M.S. degrees will have completed courses equivalent to those required for the B.S. in Microbiology at U.S.F.
- Three letters of recommendation from faculty in sealed envelopes (on their university letterhead) with the envelope seal signed by the recommender. Students shall complete a **Student Recommendation Form** that can be found on the Department website and submit it to the recommenders.
- A brief essay stating your intended field of research and professional goals. Please indicate your specific research interests, in order that the application may be referred to appropriate faculty members. In the essay please list 2-3 CMMB faculty members that you would like to have review your file.
- **Applicants must complete the Application for Teaching Assistantship (TA) Form** that can be found on the Department website if they wish to be considered for a TA position. Applicants who do not return this form will not be considered for a teaching position. **Applicants should attach a resume to the Application for Teaching Assistantship (TA) Form** that highlights any previous teaching experience.

Curriculum Requirements

Total Minimum Hours: 30 Credit Hours

- **Core Requirements - 6 Credit Hours**
- **Additional Required Courses - 3 Credit Hours Minimum**
- **Electives - 7 Credit Hours Minimum**
- **Thesis/Non-Thesis - 14 Credit Hours**

Core Requirements (6 Credit Hours)

- MCB 5206 Public Health and Pathogenic Microbiology **Credit Hours: 3**
- MCB 5208 Cellular Microbiology **Credit Hours: 3**

Additional Required Courses (3 Credit Hours)

- BSC 6930 Lectures in Contemporary Biology **Credit Hours: 1** (*Taken three times*)

Electives (7 credit Hours Minimum)

Select from the following or other graduate courses approved by the supervisory committee:

- BSC 5931 Selected Topics in Biology **Credit Hours: 1-4 (3 credits for this program)** (Molecular Microbial Ecology)
- BSC 5931 Selected Topics in Biology **Credit(s): 1-4 (3 credits for this program)** (Prokaryotic Molecular Genetics)
- BSC 5931 Selected Topics in Biology Selected Topics in Biology **Credit(s): 1-4** (3 credits for this program) (Bacterial Pathogenesis)
- MCB 5655 Applied and Environmental Microbiology **Credit Hours: 3**
- PCB 6930 Current Topics in Cancer Biology **Credit Hours: 2** Principles of Immunology **Credit(s): 3** (Proposed as PCB 5335)
- PCB 6236 Advanced Immunology **Credit Hours: 4**
- MCB 5815 Medical Mycology **Credit Hours: 3**
- PCB 5616 Molecular Phylogenetics **Credit Hours: 3**
- PCB 6525 Molecular Genetics **Credit Hours: 3**
- BSC 5425 Genetic Engineering and Recombinant DNA Technology **Credit Hours: 3**



Note: Additional courses not on the list may be substituted with the approval of the thesis committee and CMMB Graduate Director.

Lab Rotations

Where appropriate, students must complete three laboratory rotations during their first semester of residency.

Comprehensive Examination

A final comprehensive oral examination is required for all master's students. This examination is open to all departmental faculty. Students must take their comprehensive exam within two years of matriculation and the exam is normally taken after the completion of all formal course work. For non-thesis students, the comprehensive qualifying exam is taken after all course work has been completed at the end of the program of study. Thesis students must take the examination at least one semester before the thesis is presented. The examination is administered and evaluated by the student's graduate committee.

Non-Thesis Option (14 Credit Hours)

Students in the non-thesis option complete an additional fourteen (14) hours of electives.

For students enrolled in the non-thesis option, 21-hours of elective courses (7 hours of electives and 14 hours of additional electives) and a review paper of a topic approved by the supervisory committee are required, as well as successful completion of the comprehensive oral qualifying exam after all course work has been completed. For non-thesis master's students, this exam will occur at the end of the program of study.

Thesis Option (14 Credit Hours)

Thesis students are required to take the following 4 Credit Hours:

- PCB 6920 Advances in Cell and Molecular Biology **Credit Hours: 1**
- PCB 6956 Scientific Grant Writing **Credit Hours: 3**

And complete the Thesis Seminar (1 Credit Hour minimum)

- BSC 6935 Graduate Seminar in Biology **Credit Hours: 1**

All thesis students must present a seminar to the Department and must be enrolled in BSC 6935, during the final semester. The seminar should be a concise summary of the research completed to satisfy the requirements for the M.S. Degree. The seminar is open to the general public and must be announced two weeks prior to the presentation. Upon completion of the seminar, the general public will be invited to ask questions. At the discretion of the student's graduate committee, members of the committee may continue to question the graduate student after the general public has departed the seminar room. Each student is expected to defend his/her research to the unanimous satisfaction of the graduate committee. Students should present posters or oral presentations based on their thesis research at national/regional professional meetings.

And complete the Thesis (9 Credit Hours minimum)

- BSC 6971 Thesis: Master's **Credit Hours: 2-19**

Submission of a thesis proposal and approval by the major professor, graduate committee and graduate director is required. A minimum of nine (9) thesis research credit hours (BSC 6971 Thesis: Master's). Thesis research should be publishable and students are encouraged to publish their findings.



Department of Chemistry

Major



Chemistry, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the M.S. in Chemistry.

Contact Information

College: Arts and Sciences

Department: Chemistry

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources: <http://chemistry.usf.edu/graduate/>

The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

Major Research Areas:

Opportunities for graduate study are available in such interdisciplinary and specialized areas as Analytical Chemistry, Chemical Education, Computer Modeling and Computational Chemistry, Drug Discovery and Delivery, Bioorganic and Bioinorganic Chemistry, Biophysical Chemistry, Electrochemistry, Environmental Chemistry, Enzymology, Inorganic Chemistry, Marine Chemistry, Medicinal Chemistry, Metal-Organic Framework Chemistry, Nanomaterials, Natural Products, Nucleic Acid Chemistry, Nuclear Magnetic Resonance, Organic Chemistry, Organocatalysis, Photochemistry, Physical Chemistry, Polymers, Spectroscopy, and Synthetic Organic Chemistry.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A baccalaureate degree in Chemistry or a closely related discipline.
- A preferred minimum score of 149 V (430/800, 47th percentile) and 147 Q (570/800, 28th percentile) on the GRE (the Chemistry subject exam is not required).
- At least three letters of recommendation from professionals familiar with the student's academic background.

Curriculum Requirements

Total Minimum Hours – 30 Credit Hours (Post-Baccalaureate)

- **Shared Core Requirements - 6 Credit Hours**
- **Electives - 24 Credit Hours minimum**

Twenty-six hours of formally structured (graded) courses, sixteen hours of which must be at the 6000 level, as approved by the student's Supervisory Committee.

Shared Core Requirements (6 Credit Hours)



- CHM 6935 Graduate Seminars in Chemistry **Credit Hours: 1 (3 credits for this program)**
- CHM 6978 Advanced Research in Chemistry **Credit Hours: 3**

Electives (24 Credit Hours)

Students may select from graduate level courses in the Chemistry Department and/or related departments, such as Public Health, Education, Chemical Engineering, Physics, Biology, and Mathematics, with advisement of the student's Supervisory Committee. Courses include, but are not limited to, the following:

- BCH 5045 Biochemistry Core Course **Credit Hours: 3**
- BCH 5105 Biochemistry Laboratory Rotations **Credit Hours: 1-3**
- CHM 5225 Intermediate Organic Chemistry I **Credit Hours: 3**
- CHM 5226 Intermediate Organic Chemistry II **Credit Hours: 3**
- CHM 5452 Polymer Chemistry **Credit Hours: 3**
- CHM 5621 Principles of Inorganic Chemistry **Credit Hours: 3**
- CHM 5931 Selected Topics in Chemistry **Credit Hours: 1-3**
- CHM 6036 Chemical Biology **Credit Hours: 3**
- CHM 6150 Advanced Analytical Chemistry **Credit Hours: 3**
- CHM 6235 Spectroscopic Analysis of Organic Compounds **Credit Hours: 3**
- CHM 6250 Advanced Organic Chemistry I: Synthesis **Credit Hours: 3**
- CHM 6263 Advanced Organic Chemistry II: Physical-Organic **Credit Hours: 3**
- CHM 6279 Introduction to Drug Discovery **Credit Hours: 3**
- CHM 6480 Advanced Quantum Mechanics I **Credit Hours: 3**
- CHM 6810 Methods of Instruction in Higher Ed Chemistry **Credit Hours: 3**
- CHM 6811 Classroom Assessment Practices in Chemistry **Credit Hours: 3**
- CHM 6907 Independent Study **Credit Hours: 1-19**
- CHM 6936 Chemistry Colloquium **Credit Hours: 1**
- CHM 6938 Selected Topics in Chemistry **Credit Hours: 1-3**
- CHM 6945 Investigating Chemical Education Research in the United States **Credit Hours: 3**
- CHM 6946 Graduate Instruction Methods **Credit Hours: 1-4**

Non-Thesis

This major does not require a thesis.

Comprehensive Exam

M.A. students are required to prepare a review article that requires integration of topics covered in multiple courses. The topic for the review must be approved by the student's advisor and Supervisory Committee. While there is no requirement to orally present the article to the Supervisory Committee, the student may opt for an oral presentation. The review paper will serve as the final comprehensive examination required by the *USF Office of Graduate Studies*.



Chemistry, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the M.A. in Chemistry.

Contact Information

College: Arts and Sciences

Department: Chemistry

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources: <http://chemistry.usf.edu/graduate/>

The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

Major Research Areas:

Research opportunities are available in such interdisciplinary and specialized areas as Analytical Chemistry, Chemical Education, Computer Modeling and Computational Chemistry, Drug Discovery and Delivery, Bioorganic and Bioinorganic Chemistry, Biophysical Chemistry, Electrochemistry, Environmental Chemistry, Enzymology, Inorganic Chemistry, Marine Chemistry, Medicinal Chemistry, Metal-Organic Framework Chemistry, Nanomaterials, Natural Products, Nucleic Acid Chemistry, Nuclear Magnetic Resonance, Organic Chemistry, Organocatalysis, Photochemistry, Physical Chemistry, Polymers, Spectroscopy, and Synthetic Organic Chemistry.

Admission Information

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- A baccalaureate degree in Chemistry or a closely related discipline.
- A preferred minimum score of 149 V (430/800, 47th percentile) and 147 Q (570/800, 28th percentile) on the GRE (the Chemistry subject exam is not required).
- At least three letters of recommendation from professionals familiar with the student's academic background.

Curriculum Requirements

Total Minimum Hours – 30 Credit Hours (Post-Baccalaureate)

- **Shared Core Requirements – 6 Credit Hours**
- **Electives – 18 Credit Hours**
- **Directed Research - 4 Credit Hours**
- **Thesis – 2 Credit Hours**

Twenty hours must be in formally structured (graded) courses of which sixteen hours must be at the 6000 level, as approved by the student's Supervisory Committee.



Shared Core Requirements (6 Credit Hours)

- CHM 6935 Graduate Seminars in Chemistry **Credit Hours: 1 (3 credits for this program)**
- CHM 6978 Advanced Research in Chemistry **Credit Hours: 3**

Electives (18 Credit Hours)

Students may select from graduate level courses in the Chemistry Department and/or related departments, such as Public Health, Education, Chemical Engineering, Physics, Biology, and Mathematics, with advisement of the student's Supervisory Committee. Courses include, but are not limited to, the following:

- BCH 5045 Biochemistry Core Course **Credit Hours: 3**
- BCH 5105 Biochemistry Laboratory Rotations **Credit Hours: 1-3**
- CHM 5225 Intermediate Organic Chemistry I **Credit Hours: 3**
- CHM 5226 Intermediate Organic Chemistry II **Credit Hours: 3**
- CHM 5452 Polymer Chemistry **Credit Hours: 3**
- CHM 5621 Principles of Inorganic Chemistry **Credit Hours: 3**
- CHM 5931 Selected Topics in Chemistry **Credit Hours: 1-3**
- CHM 6036 Chemical Biology **Credit Hours: 3**
- CHM 6150 Advanced Analytical Chemistry **Credit Hours: 3**
- CHM 6235 Spectroscopic Analysis of Organic Compounds **Credit Hours: 3**
- CHM 6250 Advanced Organic Chemistry I: Synthesis **Credit Hours: 3**
- CHM 6263 Advanced Organic Chemistry II: Physical-Organic **Credit Hours: 3**
- CHM 6279 Introduction to Drug Discovery **Credit Hours: 3**
- CHM 6480 Advanced Quantum Mechanics I **Credit Hours: 3**
- CHM 6810 Methods of Instruction in Higher Ed Chemistry **Credit Hours: 3**
- CHM 6811 Classroom Assessment Practices in Chemistry **Credit Hours: 3**
- CHM 6907 Independent Study **Credit Hours: 1-19**
- CHM 6936 Chemistry Colloquium **Credit Hours: 1**
- CHM 6938 Selected Topics in Chemistry **Credit Hours: 1-3**
- CHM 6945 Investigating Chemical Education Research in the United States **Credit Hours: 3**
- CHM 6946 Graduate Instruction Methods **Credit Hours: 1-4**

Comprehensive Exam

The student must submit and orally defend before the Supervisory Committee a written thesis based on original research in an area approved by the student's Supervisory Committee. This will serve as the final comprehensive examination.

Directed Research (4 Credit Hours)

- CHM 6973 Directed Research **Credit Hours: 1-19 (4 credits for this program)**

Thesis (2 Credit Hours)

- CHM 6971 Thesis: Master's **Credit Hours: 2-19 (2 credits for this program)**



Chemistry, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Chemistry

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources: <http://chemistry.usf.edu/graduate>

The Department of Chemistry offers Doctor of Philosophy, Master of Science, and Non-thesis Master of Arts degrees. The Chemistry graduate faculty is comprised of full-time senior faculty members, all holding the Ph.D. degree. The combination of a large and strong faculty with a wide variety of courses provides students with programs of study that can be tailored to fit individual needs, while maintaining a sound background in all general aspects of Chemistry. The excellent research facilities and very low student-faculty ratio combine to afford unique opportunities for advanced study in Chemistry.

Major Research Areas:

Research opportunities are available in such interdisciplinary and specialized areas as Analytical Chemistry, Chemical Education, Computer Modeling and Computational Chemistry, Drug Discovery and Delivery, Bioorganic and Bioinorganic Chemistry, Biophysical Chemistry, Electrochemistry, Environmental Chemistry, Enzymology, Inorganic Chemistry, Marine Chemistry, Medicinal Chemistry, Metal-Organic Framework Chemistry, Nanomaterials, Natural Products, Nucleic Acid Chemistry, Nuclear Magnetic Resonance, Organic Chemistry, Organocatalysis, Photochemistry, Physical Chemistry, Polymers, Spectroscopy, and Synthetic Organic Chemistry.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A Bachelor of Arts or Bachelor of Science degree in Chemistry. Applicants with other degrees are considered on a case-by-case basis.
- A preferred minimum score of 149 V (430/800, 47th percentile) and 147 Q (470/800, 28th percentile) on the GRE (the Chemistry subject exam is not required).
- At least three letters of recommendation from people familiar with the student's academic background.

Curriculum Requirements

Total Minimum Hours – 72 credit hours (Post-Baccalaureate) 42 credit hours (Post-Master's)

- **Core Requirements – 9 Credit hours minimum**
- **Additional Coursework – 61 (post-Baccalaureate) or 31 (post-masters) Credit hours minimum**
- **Dissertation – 2 Credit hours minimum**

Core Requirements (9 Credit Hours)

- CHM 6935 Graduate Seminars in Chemistry **Credit Hours: 1 (6 credits for the program)**
- CHM 6978 Advanced Research in Chemistry **Credit Hours: 3**



Electives

61 (Post-Baccalaureate) or 31 (post-masters)

Students may select from graduate level courses in the Chemistry Department and/or related departments, such as Public Health, Education, Chemical Engineering, Physics, Biology, and Mathematics, with advisement of the student's Supervisory Committee. Courses include, but are not limited to, the following:

- BCH 5045 Biochemistry Core Course **Credit Hours: 3**
- BCH 5105 Biochemistry Laboratory Rotations **Credit Hours: 1-3**
- CHM 5225 Intermediate Organic Chemistry I **Credit Hours: 3**
- CHM 5226 Intermediate Organic Chemistry II **Credit Hours: 3**
- CHM 5452 Polymer Chemistry **Credit Hours: 3**
- CHM 5621 Principles of Inorganic Chemistry **Credit Hours: 3**
- CHM 5931 Selected Topics in Chemistry **Credit Hours: 1-3**
- CHM 6036 Chemical Biology **Credit Hours: 3**
- CHM 6150 Advanced Analytical Chemistry **Credit Hours: 3**
- CHM 6235 Spectroscopic Analysis of Organic Compounds **Credit Hours: 3**
- CHM 6250 Advanced Organic Chemistry I: Synthesis **Credit Hours: 3**
- CHM 6263 Advanced Organic Chemistry II: Physical-Organic **Credit Hours: 3**
- CHM 6279 Introduction to Drug Discovery **Credit Hours: 3**
- CHM 6480 Advanced Quantum Mechanics I **Credit Hours: 3**
- CHM 6810 Methods of Instruction in Higher Ed Chemistry **Credit Hours: 3**
- CHM 6811 Classroom Assessment Practices in Chemistry **Credit Hours: 3**
- CHM 6907 Independent Study **Credit Hours: 1-19**
- CHM 6936 Chemistry Colloquium **Credit Hours: 1**
- CHM 6938 Selected Topics in Chemistry **Credit Hours: 1-3**
- CHM 6945 Investigating Chemical Education Research in the United States **Credit Hours: 3**
- CHM 6946 Graduate Instruction Methods **Credit Hours: 1-4**
- CHM 7820 Directed Research **Credit Hours: 1-19 (varies)**

Qualifying Exam

Students must successfully pass at least three of the five ACS undergraduate Chemistry proficiency exams in the subject areas of Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry, and Physical Chemistry. A student may attempt each area exam three times and must score above the 50th percentile of national norms.

Promotion to Candidacy

Before the end of the third semester (excluding summers), the student should present to the Supervisory Committee a written document outlining the student's research progress and future plans. This research summary is also to be presented orally to the committee. A successful defense results in the student being promoted to candidacy for the Ph.D. degree.

Original Research Proposal (ORP) Examination

An original research proposal must be written and defended before the end of the fifth semester (excluding summers), and after the student has already obtained Ph.D. candidacy.



Research Data Presentation

The student must give a research data presentation to his or her Dissertation Committee, preferably by the end of the fourth year (eight semesters, excluding summers), and at least one semester prior to the final oral thesis defense.

Publication and Presentation Requirements

The student must publish at least one peer-reviewed manuscript on his or her doctoral research topic, and make at least two presentations at a scientific meeting.

Oral Defense of the Ph.D. Dissertation

Upon completing all the research and other program requirements, the student will schedule a final oral defense of the written dissertation. This presentation is open to the public and will serve as the final comprehensive examination required by the *USF Office of Graduate Studies*.

Dissertation (2 Credit Hours Minimum)

Students who take more dissertation hours may apply these toward the additional course requirements.

- CHM 7980 Dissertation: Doctoral **Credit Hours: 2-19 (2 credits for this program)**



Department of Integrative Biology

Major



Conservation Biology, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Integrative Biology

Contact Information: <http://www.grad.usf.edu/majors>

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.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- a B.S. in Biological Sciences* or a related discipline from an accredited college or university
- a GRE (general test)
- Three (3) letters of recommendation addressing academic and research potential of the applicant,
- 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.

Curriculum Requirements

Total Minimum Hours - 30 Credit Hours

- **Core Requirements - 6 Credit Hours**
- **Additional Required Courses - 12 Credit Hours**
- **Electives - 6 Credit Hours**
- **Thesis - 6 Credit Hours**

Core Requirements (6 Credit Hours)

- BSC 6865 Conservation Biology Theory **Credit Hours: 3**
- BSC 6381C Biodiversity **Credit Hours: 3**

Additional Required Courses (12 Credit Hours)



- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4** Taken as *Quantitative Analytical Methods* (3 Credit Hours for this program)
- PCB 6939 Seminar in Ecology **Credit Hours: 1-3** (3 Credits for this program)
- BSC 6910 Directed Research **Credit Hours: 1-19** (3 Credits for this program)
- PCB 6930 Current Topics in Cancer Biology **Credit Hours: 2** Taken as *Florida Ecosystems* (3 Credits for this program)

Electives (6 Credit Hours)

- PCB 5307 Limnology **Credit Hours: 3**
- PCB 5307L Limnology Laboratory **Credit Hours: 1**
- PCB 6556 Conservation Genetics **Credit Hours: 3**
- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**
- BSC 6940 Internship in Conservation Biology **Credit Hours: 1-3**
- PCB 6381C Conservation Biology Techniques Credit Hours 1-3

Comprehensive Examination

The thesis defense serves in lieu of the Comprehensive Exam.

Thesis (6 Credit Hours Minimum)

- BSC 6971 Thesis: Master's **Credit Hours: 2-19**

Graduation Requirements

Graduation requirements include completion of a minimum of 30 credit hours of graduate-level core and approved elective course work, a minimum 3.00 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.



Integrative Biology, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Ecology and Evolution
Environmental and Ecological Microbiology
Physiology and Morphology

Contact Information

College: Arts and Sciences
Department: Integrative Biology

Contact Information: <http://www.grad.usf.edu/majors>

The Department of Integrative Biology is committed to train the next generation of graduate students to prepare them for professional success in the biological sciences. Our program of graduate study is designed to foster the development of technical and analytical skills used in existing and emerging fields of discovery. The Department of Integrative Biology emphasizes learning and teaching about the interactions, across all scales, among humans and other diverse organisms in a range of environments. These interactions mediate the resilience of natural biotic systems, and enhance the sustainability of products and processes that are beneficial to ecosystems and consequently to human well-being. Thus, our mission is to create new knowledge and promote learning about ecosystem health and sustainability.

Major Research Areas: Ecology and Evolution, Environmental and Ecological Microbiology, and Physiology and Morphology.

Admission Information

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- Bachelor of Science required.
- It is expected that candidates for the Ph.D. degree will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.
- GRE: 155+ (70%)V, 150+ (70%)Q, 4.5 (70%) AW.
- Acceptance by a faculty member in the Department of Integrative Biology is mandatory. Students are expected to contact faculty via email to indicate an interest in the research being conducted in their laboratory. The Department will make every effort to pair potential graduate students with appropriate faculty.
- Three letters of recommendation.
- On Campus Interview.
- Personal Statement

Curriculum Requirements

Total Minimum Hours 90 hours post-bacc

- **Core – 8 Credit Hours**
- **Other required courses – 12 Credit Hours Minimum**



- **Additional coursework – 6 Credit Hours**
- **Concentrations – 6 Credit Hours Minimum**
- **Doctoral Seminar – 1 Credit Hour**
- **Dissertation – 24 Credit Hours**
- **Remaining hours required – Directed Research/Dissertation – 33 Credit Hours**

The graduate student, major professor and Graduate Committee will establish the specific course requirement for each graduate student. Every graduate student must satisfy minimum course requirements. The Graduate Committee consists of four individuals; three must be members of the Integrative Biology Department.

Core Requirements (8 Credit Hours)

- BSC 6930 Lectures in Contemporary Biology **Credit Hours: 1** (*Taken 4 Times*)
- PCB 6456C Biometry **Credit Hours: 4**

Other Required Courses (12 Credit Hours Minimum)

- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**
Selected from the following:
Evolution (Graduate Level) (3 Credit Hours)
Other Topics (6-9 Credit Hours)
- BSC 6849 Graduate Skills in Biology **Credit Hours: 3**

Additional Structured Coursework (6 Credit Hours)

An additional six hours of structured coursework is required. The structured courses are listed below for each of the three concentrations. The Major Professor and Graduate Committee may approve courses from outside the Department to satisfy this requirement. Doctoral students typically will take 20-25 semester hours of coursework selected from the lists of courses presented below. The remainder of the required 90 hours is obtained through research credits.

Concentrations

Students select from one of the following Concentrations:

Ecology and Evolution (6 Credit Hours Minimum)

A minimum of two courses selected from the list below for a minimum of 6 credit hours.

- BSC 5931 Selected Topics in Biology **Credit Hours: 1-4**
Comparative Approaches in Evolution (3 Credit Hours)
Conservation Biology (3 Credit Hours)
- PCB 6447 Community Ecology **Credit Hours: 3**
- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**
Advances in Environmental Ecology (1 Credit Hour)
Marine Botany (4 Credit Hours)
Ichthyology (4 Credit Hours)
- PCB 6426C Population Biology **Credit Hours: 3**
- PCB 6455 Statistical Ecology **Credit Hours: 3**
- PCB 6939 Seminar in Ecology **Credit Hours: 1-3**



- ZOO 5463C Herpetology **Credit Hours: 4**
Any graduate course approved by the Graduate Committee.

Environmental and Ecological Microbiology (6 Credit Hours Minimum)

A minimum of two courses selected from the list below for a minimum of 6 credit hours.

- BSC 5931 Selected Topics in Biology **Credit Hours: 1-4**
Genomics (3 Credit Hours)
- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**
Advances in Environmental Ecology (1 Credit Hour)
- MCB 5206 Public Health and Pathogenic Microbiology **Credit Hours: 3**
- MCB 5655 Applied and Environmental Microbiology **Credit Hours: 3**
- MCB 6930 Graduate Microbiology Seminar **Credit Hours: 1**
Applied and Ecological Microbiology (1 Credit Hour)
- PCB 6458 Biometry II **Credit Hours: 3**
- PCB 6525 Molecular Genetics **Credit Hours: 3**
- BMS 6300 Principles of Immunology and Infectious Diseases **Credit Hours: var.**
Any graduate course approved by the Graduate Committee.

Physiology and Morphology (6 Credit Hours Minimum)

A minimum of two courses selected from the list below for a minimum of 6 credit hours.

- BSC 5931 Selected Topics in Biology **Credit Hours: 1-4**
Comparative Approaches in Evolution (3 Credit Hours)
Ecological and Functional Morphology (3 Credit Hours)
- ZOO 6455 Advances in Ichthyology **Credit Hours: 1**
- PCB 6365C Physiological Ecology **Credit Hours: 4**
- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**
Advances in Physiology (1 Credit Hour)
Ecoimmunology (3 Credit Hours)
Physiology of Movement (3 Credit Hours)
Ornithology (3 Credit Hours)
Ichthyology (4 Credit Hours)
- BSC 6936 Scientific Grant Writing **Credit Hours: 3**
- PCB 5256 Developmental Mechanisms **Credit Hours: 3**
- ZOO 5463C Herpetology **Credit Hours: 4**
Any graduate course approved by the Graduate Committee.

Qualifying Exam

All students in the IB Ph.D. degree must complete a qualifying examination. Successful completion of the preliminary doctoral examination by the end of the 4th semester. The exam consists of 3 parts:

1. Dissertation proposal
2. Seminar/presentation of proposal
3. Defense of dissertation proposal



Admission to Candidacy

The doctoral student is eligible for admission to candidacy after completing structured course requirements, passing the qualifying examination and approval by the supervisory committee. Appropriate forms to document promotion to candidacy must be completed and to the Office of Graduate Studies. Following admission to candidacy, a student must enroll in BSC 7980 when engaged in research, data collection, or writing activities relevant to the doctoral dissertation. Advisors should assign the number of credits in this course in accordance with policy and appropriate to the demands made on faculty, staff, and University facilities, but in no event will the total number of earned dissertation credits be fewer than 24. Students not admitted to candidacy are not eligible to enroll in BSC 7980.

Doctoral Seminar (1 Credit Hour)

- BSC 7936 Doctoral Seminar **Credit Hours: 1**

All doctoral students must present a public seminar to the IB Department and must be enrolled in BSC 7980, during the semester in which the seminar is given. The seminar should be a concise summary of the research completed to satisfy the requirements for the Ph.D. The seminar is open to the general public and must be announced two weeks prior to the presentation. Upon completion of the seminar, the general public will be invited to ask questions. At the discretion of the student's graduate committee, members of the committee may continue to question the graduate student after the general public has departed the seminar room. Each student is expected to defend his/her research to the unanimous satisfaction of the graduate committee. Following the defense, students will make any editorial modifications to the dissertation as recommended by the supervisory committee and submit the dissertation to the Office of Graduate Studies.

Dissertation (24 Credit Hours)

- BSC 7980 Dissertation: Doctoral **Credit Hours: 2-19**

Submission of a doctoral research proposal must be approved by the Major Professor, Graduate Committee, and Graduate Director. Successful completion of the dissertation proposal, presentation of a dissertation seminar and passing the doctoral examination enables the student to become a doctoral candidate. Submission of an acceptable dissertation, presentation of the doctoral seminar (BSC 7936) and successful defense of the dissertation enable the student to obtain the Ph.D. Degree.

Other Requirements

Presentation Requirement:

Two presentations, excluding the doctoral seminar and defense are required. Students are expected to present posters or oral presentations based on their dissertation research at two national/regional professional meetings. The Graduate Committee must approve the presentation.

Publication Requirement:

One research paper must be submitted for publication to a refereed scientific journal by the date of the Doctoral Seminar and Defense. The paper may be sole or coauthored, but it must be based on the dissertation research. The student's supervisory committee must approve the paper prior to submission. The Graduate Committee must approve the journal to which the paper is submitted.

Department Handbook

<http://biology.usf.edu/ib/forms-library/>



Department of Mathematics and Statistics

Major



Mathematics, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentration:

Pure and Applied

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Arts and Sciences

Department: Mathematics and Statistics

Contact Information: <http://www.grad.usf.edu/majors>

The major provides the experience and knowledge to understand and appreciate prior accomplishments in the discipline and develop the skills necessary for a meaningful contribution to the intellectual advancement and applications of the discipline. It prepares its graduates to pursue long-term careers in their field by providing solid and cutting-edge knowledge, as well as a technical education enabling them to take on leading positions in a modern economy.

Major Research Areas

Algebra & Number Theory, Applied Statistics, Approximation Theory, Bio-Mathematics, Complex & Harmonic Analysis, Cyber-Security & Cryptography, Data Science, Differential Equations, Graph Theory & Combinatorics, Low-Dimensional Topology, Mathematics Education, Mathematical Physics, Operator Theory, Probability, Statistical Learning, Stochastic Processes & Modelling

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A Bachelor's degree or equivalent in mathematical sciences or related area.
- GRE - At least a 55th percentile Quantitative score; Verbal and Analytical Writing scores are also considered.
- At least a 3.00 GPA in undergraduate math courses, and specifically in the following courses or their equivalents: Elementary Abstract Algebra, Bridge to Abstract Mathematics, and Intermediate Analysis.
- Three letters of recommendation (two of which should be from college level mathematics/statistics professors).
- A completed math department application form, including a statement of goals
- A completed departmental graduate teaching assistantship application form (if such a position is desired).

The Graduate Admissions Committee may provisionally admit applicants from other majors to the Master's Program if they meet the GPA requirement.

Curriculum Requirements

Total Minimum Hours: 30 hours

- **Core Requirements – 9 Credit Hours**
- **Fundamental Sequence Courses – 6 Credit Hours minimum**
- **Elective Sequence Courses or Concentration Option – 6 Credit Hours (Electives), 12 Credit Hours (Concentration)**
- **Electives - 3 Credit Hours Minimum**



- **Thesis/Non-Thesis– 6 Credit Hours minimum**

Core Requirements (9 Credit Hours)

- MAA 5306 Introduction to Real Analysis **Credit Hours: 3**
- MAS 5145 Advanced Linear Algebra **Credit Hours: 3**
- MAE 5177 Teaching College Mathematics **Credit Hours: 3**

Sequences of Courses

The program offers coherent pairs/triples of courses, referred to as sequences, to ensure a certain balance of breadth and depth of disciplinary knowledge. The student must complete a total of two sequences: one Fundamental Sequence and one from among the Fundamental and Elective Sequences with at least a 3.00 average in each sequence. Each course may count towards only one Sequence.

Fundamental Sequences (6 Credit Hours)

Algebra:

- MAS 5311 Algebra I **Credit Hours: 3**
- MAS 6312 Algebra II **Credit Hours: 3**

Analysis:

- MAA 5307 Real Analysis I **Credit Hours: 3**
- MAA 6616 Real Analysis II **Credit Hours: 3**

Topology:

- MTG 5316 Topology I **Credit Hours: 3**
- MTG 6317 Topology II **Credit Hours: 3**

Elective Sequences (6 Credit Hours)

Applied Mathematics:

one of

- MAP 5407 Methods of Applied Mathematics **Credit Hours: 3**
- MAP 5345 Applied Partial Differential Equations **Credit Hours: 3**

one of

- MAA 5405 Applied Complex Analysis **Credit Hours: 3**
- MAT 5932 Selected Topics **Credit Hours: 1-4** (Numerical Analysis)



one of

- MAP 6205 Control Theory and Optimization **Credit Hours: 3**
- MAP 6319 Dynamical Systems II **Credit Hours: 3**

Combinatorics:

- MAD 6206 Combinatorics I **Credit Hours: 3**
- MAD 6207 Combinatorics II **Credit Hours: 3**

Complex Analysis:

- MAA 6406 Complex Analysis I **Credit Hours: 3**
- MAA 6407 Complex Analysis II **Credit Hours: 3**

Differential Geometry

- MTG 6256 Differential Geometry **Credit Hours: 3**
- MTG 6257 Differential Geometry II **Credit Hours: 3**

Dynamical Systems:

- MAP 6312 Dynamical Systems I **Credit Hours: 3**
- MAP 6319 Dynamical Systems II **Credit Hours: 3**

Functional Analysis:

- MAA 6506 Functional Analysis I **Credit Hours: 3**
- MAA 6507 Functional Analysis II **Credit Hours: 3**

Harmonic Analysis

- MAP 6418 Harmonic Analysis **Credit Hours: 3**
- MAP 6356 Partial Differential Equations **Credit Hours: 3**

Nonlinear Analysis:

- MAP 5316 Ordinary Differential Equations I **Credit Hours: 3**
- MAP 5317 Ordinary Differential Equations II **Credit Hours: 3**

Partial Differential Equations:

- MAP 5345 Applied Partial Differential Equations **Credit Hours: 3**
- MAP 6356 Partial Differential Equations **Credit Hours: 3**

Theory of Computing:



- MAD 6616 Algebraic Automata Theory **Credit Hours: 3**
- MAD 6510 Analysis of Algorithms **Credit Hours: 4**

Statistical Methods

- STA 5166 Statistical Methods I **Credit Hours: 3**
- STA 6167 Statistical Methods II **Credit Hours: 3**
- STA 6208 Linear Statistical Models **Credit Hours: 3**

Mathematical Statistics

- STA 5326 Mathematical Statistics I **Credit Hours: 3**
- MAT 6932 Selected Topics **Credit Hours: 1-4**
Mathematical Statistics II (3 Credit Hours) (Proposed STA 6326)

Linear Models and Multivariate Analysis

- STA 6208 Linear Statistical Models **Credit Hours: 3**
- STA 6746 Multivariate Analysis **Credit Hours: 3**

Probability

- STA 5446 Probability Theory I **Credit Hours: 3**
- STA 6447 Probability Theory II **Credit Hours: 3**

Stochastic Processes And Time Series Analysis

- STA 6876 Time Series Analysis **Credit Hours: 3**
- STA 6206 Stochastic Processes **Credit Hours: 4**

Concentration Option

The concentration in Pure and Applied Mathematics has the following requirements in lieu of the elective sequence courses.

Pure and Applied Math Concentration () (12 Credit Hours)

Students must complete three of the following courses.

- MAT 5932 Selected Topics **Credit Hours: 1-4**
Applied Complex Variables (3 Credit Hours) (Proposed MAA 5406)
Other topics (3 Credit Hours)
- MAP 5345 Applied Partial Differential Equations **Credit Hours: 3**
- MAP 5407 Methods of Applied Mathematics **Credit Hours: 3**
- MAP 6356 Partial Differential Equations **Credit Hours: 3**
- MAT 6932 Selected Topics **Credit Hours: 1-4**
Topics Vary (3 Credit Hours)

Students must also complete one of the following courses.



- STA 5326 Mathematical Statistics I **Credit Hours: 3**
- STA 6206 Stochastic Processes **Credit Hours: 4**
- STA 6876 Time Series Analysis **Credit Hours: 3**
MAT 6932 Selected Topics: *Mathematical Statistics II (3 Credit Hours) (Proposed as STA 6327)*

Electives (3 Credit Hours Minimum)

Students select graduate course electives in consultation with their advisor.

Comprehensive Exam

The student must either successfully defend a thesis (the Thesis Option) or pass one of the written Fundamental Qualifying Examinations (the Exam Option). For the student who elects the Thesis Option, the Comprehensive Examination takes the form of an oral thesis defense, in which the candidate must demonstrate knowledge of the general subject area of the thesis. For the student who elects the Exam Option, the Comprehensive Examination is passed by passing one of the Fundamental Qualifying Examinations at M.A. level or better.

Thesis/Non-Thesis (6 Credit Hours)

Non-Thesis

Students in the non-thesis option complete an additional 6 hours of electives.

Thesis

- MAT 6971 Thesis: Master's **Credit Hours: 2-19** (6 Credit Hours)
A student who elects the Thesis Option must register for a minimum of six (6) credit hours in MAT 6971, only six (6) hours of which may be applied toward the 30-hour degree requirement.

Department Handbook

The student is responsible for familiarizing themselves with the additional program requirements and expectations listed in the program handbook, particularly those concerning timely progress.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Mathematics, Ph.D.

Priority Program Admission Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Pure and Applied
Statistics

Contact Information

College: Arts and Sciences

Department: Mathematics and Statistics

Contact Information: <http://www.grad.usf.edu/majors>

The major provides the experience and knowledge to understand and appreciate prior accomplishments in the discipline and develops the skills necessary for a meaningful contribution to the intellectual advancement and applications of the discipline. It prepares its graduates to pursue long-term careers in their field by providing solid and cutting-edge knowledge. Graduates receive training that enables them to conduct independent research and write research papers publishable in peer-reviewed journals of their discipline, as well as a technical education enabling them to take on leading positions in a modern economy.

Major Research Areas

Algebra & Number Theory, Applied Statistics, Approximation Theory, Bio-Mathematics, Complex & Harmonic Analysis, Cyber-Security & Cryptography, Data Science, Differential Equations, Graph Theory & Combinatorics, Low-Dimensional Topology, Mathematics Education, Mathematical Physics, Operator Theory, Probability, Statistical Learning, Stochastic Processes & Modelling

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A degree from an accredited institution relevant to the prospective concentration. Either
 - a Master's degree or equivalent in mathematical sciences/statistics or a related area; or
 - a Bachelor's degree or equivalent in mathematical sciences/statistics or related area with a strong record of undergraduate/graduate courses related to prospective concentration.
- GRE - At least a 55th percentile Quantitative; Verbal and Analytical Writing scores are also considered.
- At least a 3.50 GPA in graduate and/or upper undergraduate mathematics/statistics courses.
- Three letters of recommendation (two of which should be from college level mathematics/statistics professors)
- A completed departmental application form, including a statement of goals.
- A completed departmental graduate teaching assistantship application form (if such a position is desired).

Applicants to the Ph.D. program may be offered admission to the M.A. program and move to the Ph.D. program after establishing a record of success in graduate courses. Graduate Teaching and Research Assistantships are available on a competitive basis. Contact the Department for recommended prerequisites for each concentration.

Curriculum Requirements

Total Minimum Hours: 90 hours post-baccalaureate, 60 hours post-masters

Students entering for the post-bachelor's option must complete the requirements specified for the MA in Math at USF.



- **Core Requirements – 9 Credit Hours**
- **Concentration – 33 Credit Hours minimum**
- **Electives – 2 Credit Hours minimum**
- **Dissertation – 16 Credit Hours minimum**

Core Requirements (9 Credit Hours Minimum)

- MAA 5307 Real Analysis I **Credit Hours: 3**
- MAS 5145 Advanced Linear Algebra **Credit Hours: 3**
- MAE 5177 Teaching College Mathematics **Credit Hours: 3**

Concentrations

Students must select from one of the concentrations below. Each concentration offers coherent pairs/triples of courses, referred to as sequences, to ensure a certain depth of disciplinary knowledge. In addition to the primary concentration courses, the student must complete a total of four sequences: two Fundamental sequences for their concentration and a two more sequences from among the Fundamental and Elective Sequences for their concentration with at least a 3.00 average in each sequence. Each course may count towards only one sequence. Substitutions may be allowed with prior approval of both the Concentration Director and Concentration Graduate Committee.

Pure and Applied Concentration (33 Credit Hours)

The student must complete at least one course from each of the following groups:

Group 1 – Algebra:

- MAS 5311 Algebra I **Credit Hours: 3**
- MAS 6312 Algebra II **Credit Hours: 3**

Group 2 – Complex Analysis:

- MAA 6406 Complex Analysis I **Credit Hours: 3**
- MAA 6407 Complex Analysis II **Credit Hours: 3**

Group 3 – Topology:

- MTG 5316 Topology I **Credit Hours: 3**
- MTG 6317 Topology II **Credit Hours: 3**

Fundamental Sequences

Students must complete two sequences.

Algebra:

- MAS 5311 Algebra I **Credit Hours: 3**
- MAS 6312 Algebra II **Credit Hours: 3**



Real Analysis:

- MAA 5306 Introduction to Real Analysis **Credit Hours: 3**
- MAA 5307 Real Analysis I **Credit Hours: 3** (taken as a core requirement)
- MAA 6616 Real Analysis II **Credit Hours: 3**

Topology:

- MTG 5316 Topology I **Credit Hours: 3**
- MTG 6317 Topology II **Credit Hours: 3**

Elective Sequences

Students must complete two sequences.

Applied Mathematics

one of

- MAP 5407 Methods of Applied Mathematics **Credit Hours: 3**
- MAP 5345 Applied Partial Differential Equations **Credit Hours: 3**

one of

- MAA 5405 Applied Complex Analysis **Credit Hours: 3**
- MAT 5932 Selected Topics **Credit Hours: 1-4** (Numerical Analysis)

one of

- MAP 6205 Control Theory and Optimization **Credit Hours: 3**
- MAP 6319 Dynamical Systems II **Credit Hours: 3**

Combinatorics

- MAD 6206 Combinatorics I **Credit Hours: 3**
- MAD 6207 Combinatorics II **Credit Hours: 3**

Complex Analysis

- MAA 6406 Complex Analysis I **Credit Hours: 3**
- MAA 6407 Complex Analysis II **Credit Hours: 3**

Differential Geometry

- MTG 6256 Differential Geometry **Credit Hours: 3**
- MTG 6257 Differential Geometry II **Credit Hours: 3**



Dynamical Systems

- MAP 6312 Dynamical Systems I **Credit Hours: 3**
- MAP 6319 Dynamical Systems II **Credit Hours: 3**

Functional Analysis

- MAA 6506 Functional Analysis I **Credit Hours: 3**
- MAA 6507 Functional Analysis II **Credit Hours: 3**

Harmonic Analysis

- MAP 6418 Harmonic Analysis **Credit Hours: 3**
- MAP 6356 Partial Differential Equations **Credit Hours: 3**

Nonlinear Analysis

- MAP 5316 Ordinary Differential Equations I **Credit Hours: 3**
- MAP 5317 Ordinary Differential Equations II **Credit Hours: 3**

Partial Differential Equations

- MAP 5345 Applied Partial Differential Equations **Credit Hours: 3**
- MAP 6356 Partial Differential Equations **Credit Hours: 3**

Theory of Computing

- MAD 6616 Algebraic Automata Theory **Credit Hours: 3**
- MAD 6510 Analysis of Algorithms **Credit Hours: 4**

Statistics Concentration (48 Credit Hours)

The student must complete the following courses:

- STA 5446 Probability Theory I **Credit Hours: 3**
- STA 6447 Probability Theory II **Credit Hours: 3**
- STA 5526 Non-Parametric Statistics **Credit Hours: 3**
- STA 6746 Multivariate Analysis **Credit Hours: 3**
- STA 6876 Time Series Analysis **Credit Hours: 3**
- HSC 6055 Survival Analysis **Credit Hours: 3**

Choose three of the following seven courses:

- STA 6206 Stochastic Processes **Credit Hours: 4**
- MAT 5932 Selected Topics **Credit Hours: 1-4**
Time Series Analysis II (3 Credit Hours)
Nonlinear Time Series Analysis (3 Credit Hours)
Multivariate Iterative Processes with Applications (3 Credit Hours)
Other Topics, with preapproval (3 Credit Hours)
- MAT 6908 Independent Study **Credit Hours: 1-19** (*Preapproval required*)



- MAT 6932 Selected Topics **Credit Hours: 1-4**
Stochastic Dynamic Modeling (3 Credit Hours)

Fundamental Sequences

Students must complete two sequences.

Statistical Methods:

- STA 5166 Statistical Methods I **Credit Hours: 3**
- STA 6167 Statistical Methods II **Credit Hours: 3**
- STA 6208 Linear Statistical Models **Credit Hours: 3**

Mathematical Statistics:

- STA 5326 Mathematical Statistics I **Credit Hours: 3**
- MAT 6932 Selected Topics **Credit Hours: 1-4**
Mathematical Statistics II (3 Credit Hours) (Proposed STA 6326)

Elective Sequences

Students must complete two sequences.

Linear Models and Multivariate Analysis:

- STA 6208 Linear Statistical Models **Credit Hours: 3**
- STA 6746 Multivariate Analysis **Credit Hours: 3**

Probability:

- STA 5446 Probability Theory I **Credit Hours: 3**
- STA 6447 Probability Theory II **Credit Hours: 3**

Stochastic Processes and Time Series Analysis:

- STA 6876 Time Series Analysis **Credit Hours: 3**
- STA 6206 Stochastic Processes **Credit Hours: 4**

Electives (2 Credit Hours Minimum)

All students select graduate course electives in consultation with their advisor.

Qualifying Examinations

An examination based on a Fundamental Sequence is called a Fundamental Qualifying Examination. The student is required to pass two Fundamental Qualifying Examinations at the Ph.D. Level. After passing two Fundamental Qualifying Examinations, the student will select a Dissertation Advisor, who will convene a Specialty Examination Committee to author a Specialty Examination. Passing two



Fundamental Qualifying Examinations and the Specialty Examination at the Ph.D. level is considered passing the Doctoral Qualifying Examination.

Dissertation (16 Credit Hours Minimum)

- MAT 7980 Dissertation: Doctoral **Credit Hours: 2-19 (16 credit hours)**

Students admitted to doctoral candidacy are required to take at least 16 hours in MAT 7980 Dissertation: Doctoral, with a minimum of 6 credits of dissertation hours accumulated during each previous 12-month period (previous 3 terms, e.g. Fall, Spring, Summer) until the degree is granted.

The candidate will conduct original and significant research which is worthy of publication. The research will be described in the doctoral dissertation. Research towards the dissertation typically forms the major part of the work required for the Ph.D. in Mathematics. The Doctoral Dissertation Defense shall consist of an oral presentation of the research in the dissertation to the supervisory committee.

Handbook

The student is responsible for familiarizing themselves with the additional program requirements and expectations listed in the program handbook, particularly those concerning timely progress.



Statistics, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Mathematics and Statistics

Contact Information: <http://www.grad.usf.edu/majors>

The Department of Mathematics and Statistics offers a Ph.D. in Mathematics with concentrations in Pure and Applied mathematics and in Statistics. The major provides the experience and knowledge to understand and appreciate prior accomplishments in the discipline and develops the skills necessary for a meaningful contribution to the intellectual advancement and applications of the discipline. It prepares its graduates to pursue long-term careers in their field by providing solid and cutting-edge knowledge. Graduates receive training that enables them to conduct independent research and write research papers publishable in peer-reviewed journals of their discipline, as well as a technical education enabling them to take on leading positions in a modern economy.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Students should have at least 3.50 GPA average in courses taken during the last two years of their undergraduate or graduate studies.
- Students must have a BA or BS in one of the following areas: Statistics, Mathematics, Physical Sciences, Engineering, or Business.
- Students who expect to specialize in graduate work in statistics are advised to study as much mathematics as possible during their undergraduate years. Some interdisciplinary experience in natural sciences, engineering, economics, or psychology is also highly desirable. Students who do not have at least three semesters of successful course work in calculus will be required to complete additional courses in mathematics before being admitted. Prior course work in intermediate analysis, advanced calculus, and in statistics is strongly recommended, but not mandatory.
- At least a 55th percentile Quantitative score on the GRE; Verbal and Analytic Writing scores on the GRE are also considered. The University of South Florida and the Department of Mathematics and Statistics encourage applications from qualified individuals with disabilities and qualified individuals from all cultural, racial, religious, ethnic, and gender groups, and sexual orientations in accordance with all university regulations.

Other Information

The most recent supplementary documents for Statistics graduate students, "THE HANDBOOKS FOR BOTH M.A. AND Ph.D. GRADUATE STUDENTS IN STATISTICS/PROBABILITY PROGRAMS," at the Department of Mathematics and Statistics, University of South Florida, Tampa, Florida, USA, dated October 2007 (revised October 2016) are available at the following websites:

<http://math.usf.edu/grad/stats/ma/>

<http://math.usf.edu.grad.stats.Ph.D./>

Prospective graduate students in Statistics are welcome to read the information in the Handbooks. In addition, a HARD COPY OF THESE HANDBOOKS will be provided to graduate students at the time of their FIRST time academic advisement process.



Curriculum Requirements

Total Minimum Hours 30 hours

- **Core Requirements – 15 Credit hours**
- **Electives – 15 Credit hours**

Core Requirements

Sequences:

The student must earn a 3.00 average in Statistics Methods I and II and the student must earn a 3.00 average in Mathematical Statistics I, Mathematical Statistics II, and Linear Statistical Models.

- STA 5166 Statistical Methods I **Credit Hours: 3**
- STA 6167 Statistical Methods II **Credit Hours: 3**
- STA 5326 Mathematical Statistics I **Credit Hours: 3**
- STA 6327 – Mathematical Statistics II **Credit(s): 3** (proposed course)
- STA 6208 Linear Statistical Models **Credit Hours: 3**

Electives:

- STA 5446 Probability Theory I **Credit Hours: 3**
- STA 6447 Probability Theory II **Credit Hours: 3**
- STA 5526 Non-Parametric Statistics **Credit Hours: 3**
- STA 6746 Multivariate Analysis **Credit Hours: 3**
- STA 6876 Time Series Analysis **Credit Hours: 3**
- MAT 6932 Selected Topics **Credit Hours: 1-4 (3 credits for this program)** (Survival Analysis)
- STA 6206 Stochastic Processes **Credit Hours: 4**
- STA 6823 - Stochastic Dynamic Modeling **Credit(s): 3** (proposed course)
- MAT 6932 Selected Topics **Credit(s): 1-4 (3 credits for this program)** (Time Series Analysis II)
- MAT 6932 Selected Topics **Credit(s): 1-4 (3 credits for this program)** (Nonlinear Time Series Analysis)
- MAT 6908 Independent Study **Credit Hours: 1-19** (as indicated by professor)
- MAT 6932 Selected Topics **Credit(s): 1-4 (3 credits for this program)**

Non-Thesis/Thesis

Students opt for either a non-thesis research project or thesis.

Non-Thesis Research Project (3 Credit Hours Minimum)

Completing at least 3 hours of Research Project work which is counted towards the 30 credit-hours requirement.

- Taking the course MAT 6908 Independent Study (Non-Thesis Option) and presenting a paper exemplifying the creative component of the major. This may be, but is not restricted to, a literature review, a report of independent research, design and (or) analysis of a sample survey or experiment, a report on consulting with research workers outside the department, or a report on the construction of a computer program requiring statistical numerical analysis.



- Passing one Qualifying Exam on Statistical Methods or Math Statistics at master's level.

Thesis Option (6 Credit Hours Minimum)

Students may opt to complete a thesis in lieu of 6 hours of electives.

A master's thesis is a scholarly composition that demonstrates the ability of the author to do independent and creative work. It explores in some depth a problem or issue related to the major field of study. Although considerable variations in format and style are acceptable, precise expression, logical construction, and meticulous attention to detail are essential. A thesis in statistics should deal with some aspect of statistical methodology or theory, or the development of statistical models for a class of problems related to a scientific question. While most theses will include a case study or example that involves scientific data, the analysis of a particular data set does not, alone, constitute the level of scholarly accomplishment required for a thesis.

- MAT 6971 Thesis: Master's **Credit Hours: 2-19 (6 credits for this program)**

Student's Graduate Committee

Students working toward a thesis will have the benefit of a committee of members of the graduate faculty, appointed by the graduate director/departmental chairperson and approved by the Dean of the College. 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.

- Successful Oral Defense of the Thesis
- Final Submission of Approved Thesis.

Other Requirements

A candidate must complete at least 30 credit hours for a MA. At least twenty hours must be in formal regularly scheduled course work, ten of which must be at the 6000-level. The student must maintain a 3.00 average to remain a candidate for a degree. Failure to do this will result in being placed on probation. A letter from the major professor is required to remove a student from probation after he/she regains a 3.00 average. Department may waive some of the course requirements for those students who have taken equivalent course work at another institution. In such instances, students will be required to complete other coursework to meet the minimum hours required for the degree.

Comprehensive Examination

Graduation from the Master's major also requires the completion of either a thesis or both written and oral examinations.

Written Comprehensive Examination - The written exam is designed to cover material presented during the first year of graduate work. The purpose of the exam is to make sure the students have reviewed their first year's work before starting the second year and to point out weaknesses which should be overcome during their second year in order to graduate. Students are expected to pass this exam in at most two attempts. More specifically, the material for the above examination will be taken primarily from the following sequences of courses Semester 1: STA 5166 Statistical Methods I and STA 5326 Mathematical Statistics I; Semester 2: STA 6167 Statistical Methods II and MAT 6326 Mathematical Statistics II, and STA 6208 Linear Statistical Models.



Department of Physics

Major



Physics (Applied Physics), Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Medical Physics (Optional)

Contact Information

College: Arts and Sciences

Department: Physics

Contact Information: <http://www.grad.usf.edu/majors>

The Department of Physics at the University of South Florida expresses an inclusive vision of applied physics. Some of us collaborate with engineers, others with mathematicians. In between, we always keep in mind the applications both of physics and of the results of our research. Applied Physics seeks both fundamental knowledge and new ideas that benefit society. Our research strengths include (but are not limited to) materials science, solid-state and condensed-matter physics, computational physics, biophysics, spectroscopy, and optics. Our graduates find employment in academia, national laboratories, hospitals, finance, and industry.

Accreditation

The Ph.D. degree program in "Applied Physics with an emphasis in medical-physics" has been accredited since 2015 by the Commission on the Accreditation of Medical Physics Education Programs, CAMPEP.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- three letters of recommendation
- a statement of purpose
- GRE General Test scores required, GRE Physics Subject Test scores recommended.

Applicants for admission to the Ph.D. program must indicate whether they are requesting the medical-physics concentration option.

Students Entering with Prior Master's Degrees from Other Institutions

Students entering with a prior master's degree from an institution other than USF must complete a minimum of 45 credit hours. The Director of Graduate Studies will evaluate coursework and may waive specific requirements with the substitution of other approved graduate coursework. However, at least six structured courses (18 credit hours) approved by the Director of Graduate Studies must be completed at USF in a discipline related to the Ph.D. Degree.

Curriculum Requirements

Total Minimum Hours: 72 credit hours post-bachelor's

- **Core Requirements - 12 Credit Hours**
- **General Option or Concentration Option - 18 Credit Hours**
- **Other Courses - 18 Credit Hours**
- **Dissertation - 24 Credit Hours**



For students entering with a prior non-USF master's degree:

Total Minimum hours: 45 Credit Hours post-master's

- Core Requirements - 12 Credit Hours
- Additional Structured courses - 6 Credit Hours
- Industrial Practicum or Medical Option Alternative - 3 Credit Hours
- Dissertation Research - 24 Credit Hours

Note: students entering with a prior master's degree may need more than 45 credit hours to satisfy all competencies.

Core Courses (12 Credit Hours)

- PHZ 5115 Methods of Theoretical Physics I **Credit Hours: 3**
- PHY 6346 Electromagnetic Theory I **Credit Hours: 3**
- PHY 6645 Quantum Mechanics I **Credit Hours: 3**
- PHY 6536 Statistical Mechanics **Credit Hours: 3**

Students entering with a prior master's degree from an institution other than USF must complete a minimum of 45 credit hours. The Director of Graduate Studies will evaluate coursework and may waive specific requirements with the substitution of other approved graduate coursework. However, at least six structured courses (18 credit hours) approved by the Director of Graduate Studies must be completed at USF in a discipline related to the Ph.D. Degree.

General Option or Concentration

Students complete either the General Option or the Concentration.

General Option (18 Credit Hours)

At least an additional six (6) graduate-level classes, of which at least five (5) are in Physics graduate-level classes (excluding research and seminars) not used to fulfill other requirements. Contact the department for a current list of approved courses. Any graduate-level class intended to count towards the degree and taken outside the department requires prior approval by the graduate director.

Medical-Physics Concentration Option (18 Credit Hours)

The Concentration is administered jointly by the Department of Physics of the University of South Florida and the Medical Physics Faculty Group of the Moffitt Cancer Center.

Students in the medical-physics concentration must perform medical physics research leading to a dissertation and a minimum of two papers submitted to peer-reviewed journals before graduation. In addition, the following courses are required:

- PHY 6938 Selected Topics in Physics **Credit Hours: 1-10**
Radiation Physics and Dosimetry (3 Credit Hours) (proposed PHZ 6736)
Radiobiology for Physicists (3 Credit Hours) (proposed PHZ 6730)
Radiation Therapy Physics (3 Credit Hours) (proposed RAD 6628)
- PHC 7935 Special Topics in Public Health **Credit Hours: 1-3 (3 credits for this program)**
- GMS 6605 Basic Medical Anatomy **Credit Hours: 3**
- EEE 6514 Biomedical Image Processing **Credit Hours: 3**

Other Required Courses - 18 Credit Hours



All students must complete 18 credit hours of other coursework. This includes:

- **PHZ 7940 Industrial Practicum Credit Hours: 3**
Students in the medical physics concentration can substitute PHZ 6938 Radiotherapy Physics Clinical Practicum (3 Credit Hours) (proposed as PHZ 6938) for the Industrial Practicum.
An additional 15 credit hours which may include additional electives, seminars, or PHY 7910 Directed Research to meet the minimum of 72 credit hours (post-bachelor's degree).

Doctoral Qualifying Examination:

The Doctoral Qualifying Examination consists of two parts: The Credentials Certification and the Dissertation Proposal. Following successful completion of these two parts, the student may submit the paperwork for doctoral candidacy. The student's presentation of the Dissertation Proposal may occur at any time after successful completion of the Credentials Certification.

- *Credentials Certification*
The Student, in consultation with his/her research advisor, will assemble a supervisory committee consistent with the rules of the Office of Graduate Studies. It is the responsibility of the supervisory committee to evaluate the student's academic and research accomplishments and potential according to departmental standards, and if these are met, to certify that the student may proceed to the next step. Contact the Department for details.
- *Dissertation Proposal* –
To become a Ph.D. Candidate, the student must present a written dissertation proposal and successfully defend that proposal to the supervisory committee. Contact the Department for details.

Dissertation (24 Credit Hours)

- **PHY 7980 Dissertation: Doctoral Credit Hours: 2-12 (2-9 credits for this program)**

The candidate will conduct original and significant research, describe that research and the results in a doctoral dissertation and defend that dissertation in an oral presentation to the supervisory committee. The defense is open to the public and must be scheduled according to the regulations of the Office of Graduate Studies.



Physics, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Physics

Contact Information: <http://www.grad.usf.edu/majors>

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- three letters of recommendation
- a statement of purpose
- GRE General Test scores required, GRE Physics Subject Test scores recommended.

Curriculum Requirements

Students admitted to the graduate major in Physics, will consult with the Physics Director of Graduate Studies, who will be the student's course advisor and monitor the student's progress. After a decision has been made concerning the student's academic goals, the duties of graduate advising will be assumed by the major professor and the supervisory committee appointed by the department chairperson. In keeping with the student's academic goals, the supervisory committee will determine the appropriate course of study and examinations required for graduation for both the thesis and non-thesis options.

Total Minimum Hours: 30 credit hours

- **Core – 9 Credit Hours**
- **Electives - 12 Credit Hours minimum**
- **Thesis / Non-thesis – 9 Credit Hours minimum**

Core Requirements (9 Credit Hours)

- PHZ 5115 Methods of Theoretical Physics I **Credit Hours: 3**
- PHY 6346 Electromagnetic Theory I **Credit Hours: 3**
- PHY 6645 Quantum Mechanics I **Credit Hours: 3**

Electives (12 Credit Hours)

Students complete at least twelve hours, of which at least two courses (6 hours) must be within physics. Contact the department for a current list of approved electives.

Thesis/Non-Thesis (9 Credit Hours)



Students select either the thesis or non-thesis option:

Non-Thesis Option

Students in the non-thesis option take an additional 9 hours of graduate electives. The remaining nine credit hours may be earned through a combination of approved graduate-level electives, approved graduate seminars, or directed research.

Thesis Option

- PHY 6971 Thesis: Master's **Credit Hours: 2-12**
PHY 7910 Directed Research hours may satisfy up to 50% of the thesis-hour requirement.

Comprehensive Exam

The Thesis defense is used in lieu of the comprehensive exam. Non-thesis students complete a written exam.



Department of Psychology

Major



Psychological Sciences, M.A.

Priority Admission Application Deadlines: www.grad.usf.edu/majors

For best consideration and to be considered for a GA position, apply by the posted Priority deadline.

Contact Information

College: Arts and Sciences

Department: Psychology

Contact Information: www.grad.usf.edu/majors

The M.A. degree program in Psychological Sciences 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.

The program 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, 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:

Clinical Program accredited by the American Psychological Association, Psychological Clinical Sciences Accreditation System, and member of the Academy of Psychological Clinical Science.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Minimum GRE score of 151 Verbal, 150 quantitative, and a 4.0 on the writing subsection.
- Undergraduate Introduction to Psychology, Statistics, and Research Methods classes are required.
- A 1000-word statement of intent for seeking an M.A. in Psychological Sciences, 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 Psychological Sciences 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.



Curriculum Requirements

Total Minimum Hours: 36 Credit Hours

- **Core Requirements - 18 Credit Hours**
- **Electives - 12 Credit Hours**
- **Thesis/Non-Thesis - 6 Credit Hours**

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.

Core Requirements (18 Credit Hours)

- PSB 6056 Physiological Psychology **Credit Hours: 3**
- DEP 6607 Typical and Atypical Development **Credit Hours: 3**
- EXP 6608 Cognitive Psychology **Credit Hours: 3**
- PSY 6218 Graduate Research Methods **Credit Hours: 3**
- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4**
- SOP 6266 ANOVA **Credit Hours 3**

Electives (12 Credit Hours Minimum)

- CLP 6318 Prevention Science & Health Psychology **Credit Hours: 3**
- CLP 6623 Professional and Ethical Issues in Psychology **Credit Hours: 3**
- CLP 6477 Infant Family Mental Health **Credit Hours: 3**
- SOP 6739 Cultural Competence **Credit Hours: 3**
- CLP 6478 Develop Disabilities/Disorders of Childhood and Adolescence **Credit Hours: 3**
- CLP 6462 Working with Families of Infants and Toddlers **Credit Hours: 3**

Other Electives:

- EXP 6930 Selected Topics in Experimental Psychology **Credit Hours 3**
- SOP 6709 Topics in Social Psychology **Credit Hours 3**
- CLP 6937 Topics in Clinical Psychology **Credit Hours: 1-3** (*Grant Writing - Credit Hours 3*)
- PSY 6850 Teaching of Psychology **Credit Hours: 3**
- PSY 6947 Graduate Instruction Methods **Credit Hours: 1-3**
- PSY 6219 Advanced Statistical Methodology **Credit Hours: 3**
- SOP 6709 Topics in Social Psychology **Credit Hours: 3**
- SOP 6709 Selected Topics: Program Evaluation **Credit Hours 3**
- SOP 6709 Selected Topics: Grant Writing **Credit Hours 3**

Comprehensive Examination

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 (6 Credit Hours Minimum)



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.

- PSY 6971 Thesis: Master's **Credit Hours: 2-19**

Non-Thesis Option (6 Credit Hours Minimum)

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.

- PSY 6917 Directed Research **Credit Hours: 1-19**
- PSY 6946 Practicum and Internship in Clinical Psychology **Credit Hours: 1-15**



Psychology, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Clinical Psychology
Cognition, Neuroscience, & Social Psychology
Industrial-Organizational Psychology

Contact Information

College: Arts and Sciences

Department: Psychology

Contact Information: <http://www.grad.usf.edu/majors>

The Psychology Department graduate major is divided into three broad concentrations: Clinical, Cognition, Neuroscience, & Social Psychology, and Industrial-Organizational. Each of these areas offers Ph.D. level training in the following areas of special expertise:

Clinical

Psychopathology, Psychological Assessment and Interventions, Health Psychology, Addictive Behaviors, Clinical Child Psychology, Clinical Neuropsychology.

Cognition, Neuroscience, & Social Psychology

Behavioral Neuroscience, Cognition, Judgment and Decision Making, Development, Memory, Perception, Social. In addition, with faculty in Communication Sciences and Disorders, the CNS faculty offers a specialization in Speech/Language/Hearing Sciences.

Industrial-Organizational

Selection, Training and Evaluation of Organization Members, Job Analysis, Motivation and Satisfaction, Occupational Health Psychology, Leadership, Career Development, Work-Family.

Methodological offerings across areas include Research Design and Statistics, Regression, Analysis of Variance, Psychometrics, Factor Analysis, Meta-analysis, Structural Equation Modeling.

Accreditation:

Clinical Program is accredited by American Psychological Association, Psychological Clinical Sciences Accreditation System, and member of the Academy of Psychological Clinical Science.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below. See Department website for full instructions at <http://psychology.usf.edu/grad/admission/adminreq/>

- a statement of purpose
- a Research Interests and Faculty Matches Form (<http://secure.cas.usf.edu/depts/psy/forms/ResearchInterest.aspx>)
- three letters of recommendation
- a GRE Score Report with a strong preference for GRE V and Q scores each at the 50th percentile or better



- a GPA Worksheet (<https://www.usf.edu/arts-sciences/departments/psychology/documents/gpa-worksheet.pdf>) with an upper-level undergraduate GPA of 3.40 or better.

Curriculum Requirements

Post-Bachelor's - Total Minimum Hours: 80 hours

Students must successfully complete all requirements noted in the Catalog section for the M.A. in Psychology, or its equivalent, with a minimum GPA of 3.00. In addition, students must successfully complete the following post-Masters requirements. The 30 hours from the Master's degree is then added to the post-Masters minimum of 50 hours for the 80 hour total.

Post-Master's – Total Minimum Hours: 50 hours

Individual concentrations may require more hours for accreditation. A minimum GPA of 3.00 is required for all courses within the Ph.D. Degree

- **Core – Completed as part of the Masters requirements**
- **Doctoral Concentration – 30 Credit hours minimum**
- **Additional Courses – 8 Credit hours**
- **Dissertation – 12 Credit hours minimum**

Concentration Requirements

Students apply to and enroll in one of the following concentrations:

Clinical Psychology (18 Credit Hours)

- SOP 6068 Personality and Social Psychology **Credit Hours: 3** (*Social Psychology*)
- EXP 6608 Cognitive Psychology **Credit Hours: 3**

Select one of the following:

- EXP 7099 Graduate Seminar in Experimental Psychology **Credit Hours: 1-3**
The Nature of Emotion (3 Credit Hours)
- CLP 7379 Graduate Seminar in Clinical-Community Psychology **Credit Hours: 1-3** *Emotion and Its Disorders (3 Credit Hours)*

Select one of the following:

- PSB 6056 Physiological Psychology **Credit Hours: 3**
- CLP 6937 Topics in Clinical Psychology **Credit Hours: 1-3**
Human Neuropsychology/Cognitive Neuroscience (3 Credit Hours)
- PSY 6946 Practicum and Internship in Clinical Psychology **Credit Hours: 1-15**

Cognition, Neuroscience, and Social Psychology (6 Credit Hours)

A minimum of two of the following, or alternative graduate advanced courses or seminars, (in addition to the Masters requirements), selected in consultation with major professor:

- EXP 6608 Cognitive Psychology **Credit Hours: 3**
- PSB 6056 Physiological Psychology **Credit Hours: 3**
- SOP 6068 Personality and Social Psychology **Credit Hours: 3**



- PPE 6058 Personality **Credit Hours: 3**
- EXP 7099 Graduate Seminar in Experimental Psychology **Credit Hours: 1-3** *The Nature of Emotion (3 Credit Hours)*
Judgment & Decision Making (3 Credit Hours)
The Self (3 Credit Hours)

Industrial-Organizational Psychology Concentration (21 Credit Hours)

A minimum of seven of the following, or alternative graduate courses, selected in consultation with major professor:

- INP 7937 Graduate Seminar in Industrial-Organizational Psychology **Credit Hours: 1-3** *Psychology and Technology (3 Credit Hours)*
Work and Family (3 Credit Hours)
Performance Measurement/Criterion Development (3 Credit Hours)
Occupational Health Psychology (3 Credit Hours)
Job Attitudes (3 Credit Hours)
Assessment Centers (3 Credit Hours)
Teams (3 Credit Hours)

Tools of Research:

Students complete tools of research in the area of the concentration:

Clinical (6 Credit Hours)

One of the following:

- EDF 7484 Statistical Analysis for Educational Research III **Credit Hours: 4 (3 credits for this program)**
- GEY 6403 Multivariate Statistical Analysis for Aging Research **Credit Hours: 3**

One of the following:

- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4** *Psychometrics (4 Credit Hours)*
- EDF 7437 Advanced Educational Measurement I **Credit Hours: 3**

Cognition, Neuroscience, and Social Psychology Research/Elective Courses (9 Credit Hours)

A minimum of three of the following, or alternative graduate methods courses, selected in consultation with major professor:

- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4** *Psychometrics (4 Credit Hours)*
Meta-Analysis (3 Credit Hours)
Bayesian Statistics I (3 Credit Hours)
Bayesian Statistics II (3 Credit Hours)
- EDF 7437 Advanced Educational Measurement I **Credit Hours: 3**
- EDF 7484 Statistical Analysis for Educational Research III **Credit Hours: 4 (3 credits)**
- GEY 6403 Multivariate Statistical Analysis for Aging Research **Credit Hours: 3**

Industrial-Organizational Psychology (6 Credit Hours)



A minimum of two of the following, or alternative graduate methods courses, (in addition to the graduate methods courses from the Masters requirements), selected in consultation with major professor:

- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4 (3 credits for this program)** (Meta-Analysis)
- PSY 6217 Research Methods and Measurement **Credit(s): 2-4 (3 credits for this program)** (Bayesian Statistics I)
- PSY 6217 Research Methods and Measurement **Credit(s): 2-4 (3 credits for this program)** (Bayesian Statistics II)
- PSY 6217 Research Methods and Measurement **Credit(s): 2-4 (3 credits for this program)** (Experimental Design & ANOVA)
- EDF 7437 Advanced Educational Measurement I **Credit Hours: 3**
- EDF 7484 Statistical Analysis for Educational Research III **Credit Hours: 4 (3 credits for this program)**
- GEY 6403 Multivariate Statistical Analysis for Aging Research **Credit Hours: 3**

Electives: (3 to 12 Credit Hours)

Clinical Elective Courses (12 Credit Hours)

- Choice of at least three other graduate courses, chosen in consultation with major professor **Credit(s): 12**

Cognition, Neuroscience, and Social Psychology (9 Credit Hours)

A minimum of nine hours from the following, or acceptable alternatives, selected in consultation with major professor:

- PSY 6907 Independent Study **Credit Hours: 1-19 (0-9 credits for this program)**
- PSY 7908 Directed Readings in Psychology **Credit Hours: 1-15 (0-9 credits for this program)**
- PSY 7918 Directed Research **Credit Hours: 1-19 (0-9 credits for this program)**

Industrial-Organizational Psychology (3 Credit Hours)

Research/Elective Courses - A minimum of three hours from the following, or acceptable alternatives, selected in consultation with major professor:

- PSY 6907 Independent Study **Credit Hours: 1-19 (0-3 credits for this program)**
- PSY 7908 Directed Readings in Psychology **Credit Hours: 1-15 (0-3 credits for this program)**
- PSY 7918 Directed Research **Credit Hours: 1-19 (0-3 credits for this program)**

Internship and Specialization Requirements:

External Internship

Students in the Clinical Psychology Concentration are required to complete a one-year, full-time, APA-approved (or CPA approved) internship in a training facility approved by the Department.

Specialization (6 Credit Hours)

Students in the **Cognition, Neuroscience, and Social Psychology Concentration** are required to complete a specialization. A minimum of two three-credit graduate courses (often from outside of the concentration or department), selected in consultation with major professor.

Qualifying Examination:



Successful completion of the Ph.D. Comprehensive Qualifying Exam (CL, CNS, IO) or major area paper (CL, CNS) for Admission to Candidacy

Dissertation: (12 Credit Hours Minimum)

- PSY 7980 Dissertation: Doctoral **Credit Hours: 2-19 (12 credits minimum for this program)**

Department Handbook

Additional information is available in the Graduate Student Handbook: <https://www.usf.edu/arts-sciences/departments/psychology/graduate/graduatehandbook.aspx>



Psychology, M.A.

Priority Admission Application Deadlines: www.grad.usf.edu/majors

Students are not admitted to a terminal M.A. degree in Psychology. See deadlines for Ph.D.

Concentrations:

Clinical Psychology
Cognition, Neuroscience, and Social Psychology
Industrial-Organizational Psychology

Contact Information

College: Arts and Sciences

Department: Psychology

Contact Information: www.grad.usf.edu/majors

The graduate faculty of the Psychology Department is divided into three broad concentrations: Clinical, Cognition, Neuroscience, & Social Psychology, and Industrial-Organizational. Each of these areas offers Ph.D. level training in the following areas of special expertise.

Clinical – Psychopathology, Psychological Assessment and Interventions, Health Psychology, Addictive Behaviors, Clinical Child Psychology, Clinical Neuropsychology.

Cognition, Neuroscience, & Social Psychology – Behavioral Neuroscience, Cognition, Judgment and Decision Making, Development, Memory, Perception, Social. In addition, with faculty in Communication Sciences and Disorders, the Cognitive and Neural Sciences faculty offer a specialization in Speech/Language/Hearing Sciences.

Industrial-Organizational – Selection, Training and Evaluation of Organization Members, Job Analysis, Motivation and Satisfaction, Occupational Health Psychology, Leadership, Career Development, Work-Family.

Methodological offerings across areas include Research Design and Statistics, Regression, Analysis of Variance, Psychometrics, Factor Analysis, Meta-analysis, Structural Equation Modeling.

Accreditation:

Clinical Program accredited by the American Psychological Association, Psychological Clinical Sciences Accreditation System, and member of the Academy of Psychological Clinical Science.

Admission Information

Not a terminal MA. - Admission only through Ph.D.; see Ph.D. Requirements.

The Department of Psychology does not admit students seeking a terminal M.A. degree in Psychology. Additional information is available in the Graduate Student Handbook: <http://psychology.usf.edu/policies/students.aspx>

Curriculum Requirements

Total Minimum Hours: 30



- **Core – 7 Credit Hours**
- **Concentrations – 17 Credit Hours minimum**
- **Thesis – 6 Credit Hours**

Individual concentrations may require more than 30 credit hours for accreditation. Students are required to earn B- or better for each required course.

Core Requirements (7 Credit Hours)

- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4** *Regression and ANOVA (4 Credit Hours)*
- PSY 6065 Introduction to Advanced Psychology **Credit Hours: 1-4 (3 credit hours)**

Concentration Requirements

Students select from the following Concentrations:

Clinical Psychology Concentration (19 Credit Hours Minimum)

Required Courses:

- CLP 6166 Psychopathology **Credit Hours: 3**
- CLP 6438 Psychological Assessment: Theory and Research **Credit Hours: 1-4 (3 credits for this program)**
- CLP 7379 Graduate Seminar in Clinical-Community Psychology **Credit Hours: 1-3 (3 credits for this program)** (Evidence-Based Assessment)
- CLP 7188 Clinical Psychology Interventions **Credit Hours: 1-4 (3 credits for this program)** (Theory and Research)
- PSY 6946 Practicum and Internship in Clinical Psychology **Credit Hours: 1-15 (2 credits for this program)** (Clinical Skills for Psychological Intervention)
- PSY 7931 Seminar in Ethics and Professional Problems **Credit Hours: 2**

In addition:

Students select at least one of the following, chosen in consultation with the major professor

- EDF 7484 Statistical Analysis for Educational Research III **Credit Hours: 4 (3 credits for this program)**
- GEY 6403 Multivariate Statistical Analysis for Aging Research **Credit Hours: 3**
- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4 (4 credits for this program)** (Psychometrics)
- PSY 6217 Research Methods and Measurement **Credit(s): 2-4 (3 credits for this program)** (Experimental Design & ANOVA)
- EDF 7437 Advanced Educational Measurement I **Credit Hours: 3**
- SOP 6058 - Personality and Social Psychology **Credit(s): 3** (Social Psychology)
- SOP 6068 Personality and Social Psychology **Credit Hours: 3**
- EXP 6608 Cognitive Psychology **Credit Hours: 3**
- EXP 7099 Graduate Seminar in Experimental Psychology **Credit Hours: 1-3 (3 credits for this program)** (The Nature of Emotion)
- CLP 7379 Graduate Seminar in Clinical-Community Psychology **Credit Hours: 1-3 (3 credits for this program)** (Emotion and its Disorders)
- PSB 6056 Physiological Psychology **Credit Hours: 3**
- CLP 6937 Topics in Clinical Psychology **Credit Hours: 1-3 (3 credits for this program)** (Human Neuropsychology/Cognitive Neuroscience)
- One other elective Method/Statistics course, chosen in consultation with major professor **Credit(s): 3**



Cognition, Neurosciences, & Social Psychology (CNS) Concentration (17 Credit Hours Minimum)

Required Courses

- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4 (4 credits for this program)** (Experimental Design & ANOVA)

A minimum of two of the following:

- EXP 6608 Cognitive Psychology **Credit Hours: 3**
- PSB 6056 Physiological Psychology **Credit Hours: 3**
- SOP 6068 Personality and Social Psychology **Credit Hours: 3**

A minimum of two three-credit CNS seminars:

Students in the CNS concentration may be allowed to substitute advanced three-hour courses in cognition, neuroscience, or social psychology for one or more of the content requirements with the written permission of the CNS Area Director.

- EXP 7099 Graduate Seminar in Experimental Psychology **Credit Hours: 1-3 (3 credits for this program, taken twice for a total of 6 credits)**

A minimum of at least one of the following:

- PSY 6917 Directed Research **Credit Hours: 1-19** (1 credits for this program)
- PSY 6907 Independent Study **Credit Hours: 1-19** (1 credits for this program)

Industrial-Organizational Psychology Concentration (18 Credit Hour Minimum)

- PPE 6058 Personality **Credit Hours: 3**
- INP 6935 Topics in Industrial-Organizational Psychology **Credit Hours: 3**
(Personnel Psychology)
- INP 6935 Topics in Industrial-Organizational Psychology **Credit(s): 3** (Organizational Psychology)
- PSY 7931 Seminar in Ethics and Professional Problems **Credit Hours: 2 (3 credits for this program)**
- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4 (4 credits for this program)**
- INP 6935 Topics in Industrial-Organizational Psychology **Credit(s): 3** (Organizational Research Methods)

Comprehensive Exam

Department Handbook

Procedures and guidelines for the different concentrations are described in detail in the Psychology Graduate Student Handbook:
<https://www.usf.edu/arts-sciences/departments/psychology/graduate/graduatehandbook.aspx>



School of Geosciences

Major



Environmental Science and Policy, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Geography, Environment and Planning

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Science in Environmental Science and Policy is designed to provide students the discipline-specific knowledge and transferable skills to understand the socio-cultural and political context in which environmental problems are created and ameliorated, as well as the scientific expertise to explore and analyze the consequences of ongoing environmental change. Students can specialize in wetlands and water, natural environments, climate and hazards, geographic information systems, or human-environment interaction. The program offers both thesis and professional tracks as courses of study.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Personal statement describing career goals, degree track (thesis or professional), and interest in the graduate program. Thesis track students should clearly identify both research interests and preferred major professor(s).
- Writing sample (a substantial term paper or other evidence of academic or professional writing ability).
- Three letters of recommendation from people qualified to assess the applicant's potential for graduate study.
- Applicants must submit current scores from the Graduate Record Examination (GRE).
- Graduate Assistant application form, if applying for an assistantship.

Curriculum Requirements

Total Minimum Hours: 36 Credit Hours

- **Core – 10 Credit Hours**
- **Additional required courses - 6 Credit Hours Minimum**
- **Electives – 12 Credit Hours**
- **Non-Thesis/Thesis – 8 Credit Hours**

Core Requirements (10 Credit Hours)

- GEO 6116 Perspectives on Environmental Thought **Credit Hours: 3**
- GEO 6970 Geographic Research Design **Credit Hours: 3**
- EVR 6922 ESP Capstone Seminar **Credit Hours: 3**
- EVR 6930 Research Colloquium in Environmental Science and Policy **Credit Hours: 1**

Additional Required Courses (6 Credit Hours)



Choose one Methods and Techniques course from the following list:

- GEO 6166 Multivariate Statistical Analysis **Credit Hours: 3**
- GIS 5049 GIS for Non-Majors **Credit Hours: 3**
- GIS 6100 Advanced Geographic Information Systems **Credit Hours: 3**

And choose one Seminar from the following list:

- EVR 6934 Graduate Environmental Science, Policy, and Management Selected Topics **Credit Hours: 3**
- EVR 6937 Seminar in Environmental Policy **Credit Hours: 3**

Elective Requirements (12 Credit Hours)

Students must complete 12 credit hours of graduate level (5000 or higher) elective courses with EVR, GEO, GIS, or GLY prefixes, of which at least 6 credit hours must be EVR-prefixed courses. Courses are selected in consultation with their major professor. Courses from outside programs require approval by the Environmental Science and Policy Graduate Director. No more than 3 credit hours of EVR 6908 Independent Study may be applied to the major.

Non-Thesis (8 Credit Hours)

In lieu of a thesis, professional track students complete an additional 8 credit hours of coursework. This includes six hours of elective coursework (courses with EVR, GEO, GIS, or GLY prefixes) and 2 credit hours of EVR 6908 Independent Study, in which the student completes an additional professional track requirement of completing a comprehensive examination. At the discretion of the student's examining committee, an internship or special project may be substituted for the non-thesis exam.

Thesis Option (9 Credit Hours)

The thesis track consists of 8 credit hours. Thesis track students complete a master's thesis that constitutes an original scholarly contribution and is conducted under the direction of a major professor and a three-member Faculty Supervisory Committee. Students complete a Thesis Proposal, subject to approval of the Faculty Supervisory Committee, typically during their second semester while enrolled in 2 credit hours of EVR 6908 Independent Study. Students defend their thesis in an oral presentation and submit the written thesis for the approval of the Faculty Supervisory Committee, which is then submitted to the University as a requirement for earning the degree. Students must complete 6 thesis hours (EVR 6971 Thesis: Master's) while working on their thesis.

Directed Research - 3 Credit Hours

- EVR 6934 Graduate Environmental Science, Policy, and Management Selected Topics **Credit Hours: 3**
Thesis Preparation (3 Credit Hours)

Students complete at least 6 credit hours of thesis research under the direct supervision of their major professor, typically during the second year of studies. After completion of all Core and Elective requirements, students remain enrolled in at least two (2) credit hours per semester of EVR 6934 Thesis Prep until the completion and submittal of the Thesis, which completes the requirements for the degree. Throughout this period students must work in close cooperation with their major professor and Supervisory Committee, and provide the Committee a summary of progress at least once per semester.

Research Methods/Design Preparation- 3 credit hours

- GEO 6970 Geographic Research Design **Credit Hours: 3**
All students selecting the Thesis option will complete a research methods/design course. Other courses may be substituted for this requirement with the permission of the student's advisor and the Graduate Director.

Research Colloquium - 1 Credit Hour

- EVR 6930 Research Colloquium in Environmental Science and Policy **Credit Hours: 1**



Thesis - 2 Credit Hours Minimum

- EVR 6971 Thesis: Master's **Credit Hours: 2-19**

Comprehensive Examination

Thesis Option:

The thesis defense serves in lieu of the Comprehensive Exam.

Non-Thesis Option:

Non-Thesis students complete a written comprehensive exam.



Geography and Environmental Science and Policy, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Departments: School of Geosciences

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. degree in Geography and Environmental Science and Policy (GEP) is an interdisciplinary program, and its curriculum is designed around critical areas of geography and the environment. The GEP Program is designed to integrate fully the strengths of the Geography and the Environmental Science and Policy (ESP) Programs in the School of Geosciences (SGS) at the USF. Emphasis is placed on providing theoretical rigor and methodological skills, thereby enabling students to make significant and original research and policy contributions in an integrated interdisciplinary environment. In addition, the degree has a very strong applied component emphasizing working on solutions to real-world geographical and environmental problems. Through a commitment to quality interdisciplinary teaching, combined with research and hands-on learning opportunities, the GEP Doctoral Program in the SGS is dedicated to ensuring that students are well prepared for careers in academics, and private and public sectors.

Major Research Areas:

Geography, Environmental Science and Policy

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A Master's degree, or its equivalent, from an approved accredited university with preparation in geography, environmental science and policy, or a related discipline. Highly qualified applicants can enter directly into the doctoral program from a Bachelor's degree but must complete a minimum of 90 hours prior to obtaining the Ph.D., including the required coursework in either the Geography or Environmental Science and Policy Master's majors.
- Graduate Record Exam (GRE)
- GPA at least 3.20 in upper division undergraduate and graduate credits
- A letter of intent. The letter should outline the applicant's specific academic interests and goals and identify faculty members whose interests align with that of the applicant.
- Three letters of recommendation. Arrange to have letters of recommendation sent to the Office of Graduate Admissions online prior to the application deadline. Prospective students should solicit the letters of recommendation from sources who are familiar with the applicant's academic/work history and performance. Signatures and letterheads are required for letters of recommendation.

Students Upgrading into the Doctoral Degree from the Master's Degree

After completing a minimum of one semester of course work, an admitted master's student may apply for the doctoral degree with the consent of his/her major professor (must be the major professor and not simply the initial advisor). When the student applies to the Ph.D. degree, the application is then reviewed by the Graduate Committee via the established application process, and recommendations are made regarding admission to the major and funding.

Curriculum Requirements



Total Minimum Hours:

60 Credit Hours Post-Master's

90 Credit Hours Post-Bachelor's

Post-Master's (60 minimum hours)

- Core Requirements - 6 Credit Hours
- Additional Required Courses - 6 Credit Hours
- Electives - 36 Credit Hours (Post-Master's) / 66 Credit Hours (Post-Bachelor's)
- Dissertation – 12 hours

Core Requirements (6 Credit Hours)

- GEO 7021 Doctoral Dissertation Preparation **Credit Hours: 3**
- GEO 7606 Seminar in Urban Environments **Credit Hours: 3**

Additional Required Courses (6 Credit Hours)

Choose one of the following courses:

- GEO 6116 Perspectives on Environmental Thought **Credit Hours: 3**
- GEO 6058 Geographic Literature and History **Credit Hours: 3**

And select one of these methods courses:

- GIS 6100 Advanced Geographic Information Systems **Credit Hours: 3**
- GIS 6038C Remote Sensing **Credit Hours: 3**
- GEO 6119 Geographical Techniques and Methodology **Credit Hours: 3**
- GEO 6166 Multivariate Statistical Analysis **Credit Hours: 3**

Electives (36 Credit Hours)

36 credits (post-Master's); 66 credits (post-Bachelor's)

Students complete 36 (post-master's) or 66 (post-bachelor's) credit hours in the form of elective coursework related to their area of interest. A Minimum of nine (9) structured credit hours is required for students with a master's degree. Students entering the Ph.D. who have not completed a Master's Degree in either Geography or Environmental Science and Policy should expect to complete coursework equivalent to the requirements of one of those Masters, in addition to these nine (9) minimum structured credit hours. The student's Major Professor and Faculty Supervisory Committee will advise students on the selection of the proper mix of coursework and other study to support the agreed upon dissertation research. Students can include coursework from a variety of departments to support the elective requirements, and students may choose to complete a Graduate Certificate in a particular field, from SGS or another department, as part of their studies.

Doctoral Qualifying Exam

As soon as the substantial majority of the course work is completed, the student must pass a written qualifying examination covering the subject matter in the major and related fields. This examination may be supplemented by an oral examination.



Dissertation and Directed Research (12 Credit Hours)

Directed Research hours shall not exceed 50% of the doctoral dissertation hour requirement. Directed research hours cannot retroactively be converted to dissertation hours.

- EVR 7980 Doctoral Dissertation Research **Credit Hours: 2-15**
- GEO 7980 Doctoral Dissertation Research **Credit Hours: 2-15**
- GEO 6918 Directed Research **Credit Hours: 1-19**

Other Requirements and Information:

Advising

When a student is admitted to the Major, the student, with the assistance of the Graduate Director, will have an initial advisor based upon mutual interests of the student and faculty member. The role of the advisor is to guide the student in selecting appropriate coursework for his/her program of study and to work with the student in developing research ideas and an eventual dissertation topic. In consultation with his/her advisor, the student will select a committee that will serve not only as the student's dissertation committee, but as the qualifying exam committee as well (See procedures for Academic Progress for SGS Ph.D. students).



Geography, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Human Geography
Environmental Geography
Geographic Information Science & Spatial Analysis

Contact Information

College: Arts and Sciences

Department: Geography, Environment, and Planning

Contact Information: <http://www.grad.usf.edu/majors>

Geography is the study of the human-environment relationship either in a global or more regional context.

Human Geography studies the construction of space, place, and power. It encompasses the study of economic geographies (e.g., globalization and development), political geographies (e.g. geopolitical struggles and new social movements), and social and cultural geographies (e.g. identities and exclusions). Human geography is key to providing insights into contemporary spatial arrangements, including the role of cities within the global economy, locating urban-rural intersections in the production of uneven development, and how class, gender, and race shape struggles for social justice.

Environmental Geography links the study of nature and society and considers the ways in which conventional divisions between human and non-human (natural) worlds are bridged through the production of socio-natures. This understanding is crucial to explaining and ameliorating contemporary environmental problems, including the privatization of natural resources, inequalities in access to food and water, injustices associated with environmental hazards and undesirable land uses, and the role of human activities in spurring large-scale environmental change

GI Science and Spatial Analysis concentrates on the use of advanced geospatial technologies, and the development and use of spatial analysis methodologies, to applied research problems in human and environmental geography. A thorough understanding of such geospatial technologies as Remote Sensing, GIS, and GPS, as well as modern methods of spatial statistical analysis and emerging spatial analytical techniques such as agent-based modeling, is a critical aspect of developing appropriate approaches to the analysis of geographic data.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- At least two letters of recommendation
- Transcripts
- A letter of intent
- A graduate assistant application if the applicant is applying for a GA position.
- GRE is required

Curriculum Requirements



Total Minimum Hours – 33

- Core – 6 Credit Hours
- Additional Required Courses – 3 Credit Hours
- Regional Courses – 3 Credit Hours
- Concentration – 9 Credit Hours
- Electives – 6 Credit Hours
- Non-Thesis – 9 Credit Hours
- Thesis – 6 Credit Hours

Core Requirements (6 Credit Hours)

- GEO 6058 Geographic Literature and History **Credit Hours: 3**
- GEO 6116 Perspectives on Environmental Thought **Credit Hours: 3**

Additional Required Courses (3 Credit Hours)

Based on the student's area of interest, he/she must take one course from the following Quantitative or Qualitative course offerings:

- GEO 6119 Geographical Techniques and Methodology **Credit Hours: 3**
- GEO 6166 Multivariate Statistical Analysis **Credit Hours: 3**

Regional Courses (3 Credit Hours)

Students are required to complete at least one of the following regional courses:

- GEA 6195 Seminar in Advanced Regional Geography **Credit Hours: 3**
- GEA 6215 Seminar in North American Geography **Credit Hours: 3**
- GEA 6406 Seminar in Latin American and Caribbean Geography **Credit Hours: 3**
- GEA 6504 Seminar in European Geography **Credit Hours: 3**
- GEA 6745 Asian Geography Seminar **Credit Hours: 3**

Concentration Requirements (9 Credit Hour)

Students select one of the following concentrations:

Human Geography

Select three of the following. Students may also take GEO 6166 or GEO 6119 if not taken for the additional course requirement. A regional geography (GEA) course may be substituted for a course in the Human Geography concentration.

- GEO 6345 Technological Hazards and Environmental Justice **Credit Hours: 3**
- GEO 6428 Seminar in Advanced Human Geography **Credit Hours: 3**
- GEO 6475 Political Geography Seminar **Credit Hours: 3**
- GEO 6545 Economic Geography Seminar **Credit Hours: 3**
- GEO 6605 Contemporary Urban Issues **Credit Hours: 3**
- GEO 6627 Site Feasibility Analysis **Credit Hours: 3**
- GEO 6704 Advanced Transportation Geography **Credit Hours: 3**



- GEO 7606 Seminar in Urban Environments **Credit Hours: 3**
- GIS 6307 GIS Seminar **Credit Hours: 3** (Socioeconomic Applications of GIS)

Environmental Geography

Select three of the following. Students may also take GEO 6166 or GEO 6119 if not taken for the additional course requirement.

- GEO 6209C Physical Geography Seminar **Credit Hours: 3**
- GEO 6215 Geomorphology Seminar **Credit Hours: 3**
- GEO 6217 Karst Geomorphology **Credit Hours: 3**
- GEO 6255 Weather, Climate, and Society **Credit Hours: 3**
- GEO 6263 Soils Seminar **Credit Hours: 3**
- GEO 6286 Advances in Water Resources **Credit Hours: 3**
- GEO 6288 Hydrological Systems **Credit Hours: 3**
- GEO 6345 Technological Hazards and Environmental Justice **Credit Hours: 3**
- GEO 6347 Natural Hazards **Credit Hours: 3**
- GIS 6038C Remote Sensing **Credit Hours: 3**
- GIS 6039 Remote Sensing Seminar **Credit Hours: 3**
- GIS 6306 Environmental Applications of Geographic Information Systems **Credit Hours: 3**
- GIS 6355 Water Resources Applications of GIS **Credit Hours: 3**

Geographic Information Science and Spatial Analysis

Select three of the following. Students may also take GEO 6166 or GEO 6119 if not taken for the additional course requirement.

- GEO 6115 Advanced Field Techniques **Credit Hours: 3**
- GIS 6038C Remote Sensing **Credit Hours: 3**
- GIS 6039 Remote Sensing Seminar **Credit Hours: 3**
- GIS 6100 Advanced Geographic Information Systems **Credit Hours: 3**
- GIS 6103 Programming for GIS **Credit Hours: 3**
- GIS 6112 Spatial Database Development **Credit Hours: 3**
- GIS 6306 Environmental Applications of Geographic Information Systems **Credit Hours: 3**
- GIS 6307 GIS Seminar **Credit Hours: 3**
- GIS 6355 Water Resources Applications of GIS **Credit Hours: 3**

Electives (6 Credit Hours)

Selected in consultation with the Graduate Director. At least one of the electives must be taken outside of the student's concentration excluding GEO 6908, GEO 6918 , and GEO 6944 . Electives may also be selected from courses offered outside of the Department, with the consent of the student's advisor and the graduate coordinator. A maximum of six approved hours taken outside the department can be used in the student's major.

Non-Thesis Option (9 Credit Hours)

Students in the non-thesis option complete an additional nine (9) hours of electives, which may include up to nine hours at the graduate level outside the department with the consent of their advisor and the Graduate Coordinator. Students can apply three credit hours of Internship (GEO 6944), three credit hours of Directed Research (GEO 6918) and/or Independent Research (GEO 6908) toward their major.



Thesis Option (6 Credit Hours)

- GEO 6971 Thesis: Master's **Credit Hours: 2-19**

Students in the thesis option can only apply three credit hours of Internship (GEO 6944), and three credit hours of Directed Research (GEO 6918) or Independent Research (GEO 6908) toward the degree. Upon completion of a minimum of 18 hours students are required to defend a thesis proposal. Students must also complete a thesis defense during the semester they plan to graduate.

Comprehensive Exam

Non-thesis students must pass a comprehensive written examination that is administered during the semester in which they plan to graduate. For thesis students, the thesis defense serves in lieu of the Comprehensive Exam.



Geology, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

**Spring admission available only for students entering the Professional Science Master's Degree option*

Contact Information

College: Arts and Sciences

Department: Geology

Contact Information: <http://www.grad.usf.edu/majors>

*Deadline for students seeking assistantship/fellowship support is one month earlier. Foreign student applicants should provide their materials as early as is feasible to permit time to meet immigration and visa requirements if admitted.

Geology incorporates the fundamentals of biology, chemistry, mathematics, and physics to study the earth and the processes that affect our planet. This degree offers advanced geoscience education and training suitable for joining professional workforce and/or as the foundation for pursuing a Ph.D.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- 3 letters of recommendation,
- personal statement,
- listing of previous coursework,
- writing sample,
- areas of interest form,
- transcripts, and
- GRE required (greater than 295 and not less than 30th percentile)

Curriculum Requirements

Total Minimum Hours: 30 Credit Hours

- **Core Requirements - 6 Credit Hours**
- **Electives - 18 Credit Hours**
- **Thesis or Professional Science Masters (PSM) Track - 6 Credit Hours**

Core Requirements (6 Credit Hours)

- GEO 6970 Geographic Research Design **Credit Hours: 3** (Proposed as EVR 6970 Research Design **Credit Hours: 3**)
GLY 6105 History of Geology 1960-2015 **Credit Hours: 3** (Proposed as GLY 6105)

Electives (18 Credit Hours Minimum)



Structured coursework, of which at least ten hours must be at 6000 level, selected with the advisor from the following list, or other course as approved by the Graduate Director:

- GLY 5932 Selected Topics in Geology **Credit Hours: 1-4**
Taken as - Physical Principles of Groundwater Flow (3 Credit Hours for this program)
- GLY 6246 General Geochemistry **Credit Hours: 3**
- GLY 6255 Tracer Geochemistry **Credit Hours: 3**
- GLY 6285C Analytical Techniques in Geology **Credit Hours: 3**
- GLY 6395C Topics in Igneous and Metamorphic Petrology **Credit Hours: 2-4**
- GLY 6475C Principles of Applied Geophysics **Credit Hours: 4**
- GLY 6575C Coastal Sedimentation **Credit Hours: 3**
- GLY 6739 Selected Topics in Geology **Credit Hours: 1-4**
- GLY 6824 Ecohydrology **Credit Hours: 3**
- GLY 6828 Ground-Water Geochemistry **Credit Hours: 3**
- GLY 6836 Numerical Modeling of Hydrogeologic Systems **Credit Hours: 3**
- GLY 6905 Independent Study **Credit Hours: 1-19**

Thesis Option (6 Credit Hours Minimum)

- GLY 6971 Thesis: Master's **Credit Hours: 2-19 (6 credits for this program)**

Professional Science Masters (PSM) Degree Option (6 Credit Hours Minimum)

Students interested in pursuing the Professional Science Masters Option can take one of two tracks following approval from the internship coordinator.

- Professional Geologist-led Internship – Students enrolled in this track are typically supervised by a licensed Professional Geologist (PG) and must submit an Internship Project Report approved by the supervising PG. The student must then present the results of their project at an evening public meeting hosted by the Geology Alumni Society.
- Faculty-led Internship – Students enrolled in this track are typically supervised by School of Geosciences Faculty and must submit an Internship Project Report approved by the supervising faculty member. The student must then present the results of their project publically, typically at the meeting hosted by the Geology Alumni Society.
- GLY 6739 Selected Topics in Geology **Credit Hours: 1-4**
Taken as:
Introduction to Professional Geoscience **Credit(s): 3**
- GLY 6492 Hydrogeology Internship Project **Credit Hours: 3**

Comprehensive Exam

For students in the thesis option, the thesis defense serves as the comprehensive exam.

For students in the Professional Science Master's Degree option, the comprehensive exit exam is based on coursework and an internship project. Before the exam, the student must submit an Internship Project Report approved by the supervising PG. The internship committee determines the format of the exam. Normally, it is an oral examination following the student's presentation of the results of the internship project to the hydrogeology internship committee.



Other Information:

Curriculum is customized within the degree requirements for the student's area of research interest. The Program of Study is determined via consultation between the student, his/her primary advisor and his/her student advisory committee. Other pertinent information regarding graduate study is contained in the Department's Graduate Student Handbook, which is available upon request.

All degree candidates are required to maintain satisfactory academic progress at all times. Satisfactory academic progress in this major is defined as progress in course and thesis work. Evidence of academic progress includes timely completion of departmental requirements such as selecting a primary advisor, forming a student advisory committee, completion of any prerequisites or deficiencies, timely progress toward completion of the thesis, maintaining a satisfactory GPA, defending a thesis proposal, and making a public presentation. A schedule for meeting these requirements is contained in the Department's Graduate Student Handbook.



Geology, Ph.D.

Admission Application Deadlines: <http://www.grad.usf.edu/majors>

*Deadline for students seeking assistantship/fellowship support is one month earlier. Foreign student applicants should provide their materials as early as is feasible to permit time to meet immigration and visa requirements if admitted.

Contact Information

College: Arts and Sciences

Department: Geology

Contact Information: <http://www.grad.usf.edu/majors>

The mission of the Geology Ph.D. program is to facilitate student success through the delivery of high-quality, skills-based Geology courses that investigate the earth and the processes that affect our planet. It also aims to generate knowledge and foster intellectual development by undertaking high-impact scholarship focusing on local, state, national, and global problems; and to develop community, industrial, and professional partnerships to advance career and service opportunities for a diverse student body.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- 3 letters of recommendation,
- personal statement,
- listing of previous coursework,
- Writing sample,
- Areas of interest form
- transcripts, and
- GRE (Greater than 300 and not less than 30th percentile)

Curriculum Requirements

Total Minimum Hours:

42 Credit Hours post master's

72 Credit Hours post bachelors

- **Core Requirement - 6 Credit Hours**
- **Electives - 9 Credit Hours**
- **Research coursework - 15 Credit Hours**
- **Dissertation - 12 Credit Hours**

Core Requirements (6 Credit Hours)

- GEO 7021 Doctoral Dissertation Preparation **Credit Hours: 3**
GLY 6105 History of Geology 1960-2015 Credit Hours: 3 (Proposed as 6105)



Electives (9 Credit Hours Minimum)

Structured coursework, of which at least fifteen hours must be at 6000 level, selected with the advisor from the following list, or other graduate course as approved by the Graduate Director:

- GLY 5932 Selected Topics in Geology **Credit Hours: 1-4** Physical Principles of Groundwater Flow (3 Credit hours for this program)
- GLY 6246 General Geochemistry **Credit Hours: 3**
- GLY 6255 Tracer Geochemistry **Credit Hours: 3**
- GLY 6285C Analytical Techniques in Geology **Credit Hours: 3**
- GLY 6395C Topics in Igneous and Metamorphic Petrology **Credit Hours: 2-4**
- GLY 6475C Principles of Applied Geophysics **Credit Hours: 4**
- GLY 6575C Coastal Sedimentation **Credit Hours: 3**
- GLY 6739 Selected Topics in Geology **Credit Hours: 1-4**
- GLY 6824 Ecohydrology **Credit Hours: 3**
- GLY 6828 Ground-Water Geochemistry **Credit Hours: 3**
- GLY 6836 Numerical Modeling of Hydrogeologic Systems **Credit Hours: 3**
- GLY 6905 Independent Study **Credit Hours: 1-19**

Research Course Requirements (15 Credit Hours)

Determined at the discretion of the student's committee

May include:

- GLY 7912 Directed Research **Credit Hours: 1-30**

Qualifying Exam and Admission to Candidacy

Admission to candidacy will be based on the results of a general examination administered by the student's committee. The format of the exam will be determined by the Committee at least one week prior to the onset of the examination. Normally, it will consist of a written section or sections, followed by an oral examination chaired by the student's research advisor. After admission to candidacy, all doctoral students will make at least one formal presentation of their research prior to graduation. Any appropriate venue is acceptable, e.g., Dept. colloquium, oral or poster sessions at a scientific meeting of at least regional scope.

General examinations and presentations of dissertation proposals should be completed no later than the end of the second year in the doctoral major or at the time determined by the student's committee. The examining and dissertation committees are the same and will be comprised of no less than four members, at least three of which must be USF faculty, and at least one member from outside the department, preferably outside USF.

Dissertation (12 Credit Hours)

- GLY 7980 Dissertation: Doctoral **Credit Hours: 2-19** (Minimum of 12 Credit Hours Required)

Other Information

For students entering with a Bachelor's Degree, 30 additional credit hours are required. Students are recommended to satisfy the requirements similar to that of a MS degree during the first two years of the Ph.D. study.



All doctoral students must maintain good standing in the Office of Graduate Studies (overall GPA =3.00) and maintain satisfactory academic progress toward the degree. Any student who receives a C in a structured course will be placed on academic probation. This probation can be terminated by achieving grades of B or higher in the subsequent semester of full-time enrollment. If a second grade of C is received, the student is terminated from the doctoral major. Only courses in which the student receives at least a B may be counted toward the structured-course requirement. There is also a requirement that Ph.D. students have at least two semesters of full-time residence. While meeting the residency requirements, candidates must be full-time students in good academic standing. A schedule for meeting these requirements is contained in the Department's Graduate Student Handbook.



College of Arts and Sciences: School of Social Sciences

College of Arts and Sciences: School of Social Sciences

For the College of Arts and Sciences, programs are listed with the Schools offering them and Graduate Certificates are listed with the College.

Refer to the College section for further information, policies, and requirements.

Also refer to:

- College of Arts and Sciences - Graduate Certificates
 - School of Humanities
 - School of Natural Sciences and Mathematics Programs
 - School of Social Sciences Programs

School of Social Sciences - Programs

Programs offered from the School of Social Sciences are listed below.



Department of Anthropology

Major



Applied Anthropology, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Archaeological and Forensic Science
Bio-cultural Medical Anthropology
Cultural Resource Management
Heritage Studies

Also offered as a Concurrent Degree

Contact Information

College: Arts and Sciences

Department: Anthropology

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources: <http://anthropology.usf.edu/graduate/>

The Applied Anthropology major, initiated in 1974, was the first in the country to focus on career training for the practice of Applied Anthropology. Faculty at USF specialize in various areas, including medical anthropology, biological anthropology, urban policy and community development, environmental anthropology, education, archaeology, cultural resource management (CRM), economic development, immigration, media, and issues pertaining to race, gender, and ethnicity. Geographic specializations emphasize the Caribbean, Latin America, Sub-Saharan Africa, Europe, and the United States. More than 240 graduates have received an education in anthropology and its practical uses, leading to employment in government and private sector agencies and organizations. For many, the MA is a terminal degree that qualifies them for professional careers in administration, program evaluation, planning, research, and cultural resource management. Others have gone on to earn doctoral degrees and have gained employment in academic or higher level nonacademic positions.

Students entering the Applied Anthropology major at USF choose from one of four tracks: Archaeology, Biological Anthropology, Cultural Anthropology, or Medical Anthropology. Although these four tracks share some common requirements, and are bound by general rules of the USF Office of Graduate Studies, they have different curricula and employment trajectories. Archaeology Track graduates typically enter careers in contract archaeology, or public and private agencies and museums responsible for managing archaeological resources. The Cultural Anthropology Track is designed to lead to employment in diverse areas that include education, urban planning, human services, private sector consulting and research, and non-governmental community organizations. Museum and heritage programming represent an area of overlap between the two emphases. Students who wish to pursue these kinds of specialties will develop curricula that draw from both applied and public archaeology requirements in consultation with their advisors. Biological Anthropology students are trained to work in law enforcement, private sector consulting and research, and non-governmental organizations. The Medical Anthropology track prepares students to conduct research, evaluation, and consulting in a variety of settings, including community-based organizations, county and state health departments, and non-governmental organizations. In addition to following the curriculum of a track, M.A. students can select elective courses to fulfill one of four concentrations in Archaeological and Forensic Sciences, Bio cultural Medical Anthropology, Cultural Resource Management, or Heritage Studies.

Our M.A. offers flexibility, depending on the student's career plans. Students choose from one of three professional development options: research, internship, and internship-based research (a hybrid of the other two). All three options are expected to have an applied component, but differ in emphasis and setting.

Major Research Areas:

Human biology; bio cultural medical anthropology; nutrition/diet; growth and development; population genetics; forensic anthropology and human rights; neuroanthropology; stress; immune function; maternal and child health; reproductive health; HIV/AIDS; disasters; water and sanitation; migrant health; health policy; sociocultural and historical anthropology; transnational migration; labor; neoliberal



globalization; citizenship; media and visual anthropology; environmental anthropology; urban anthropology; pedagogy and educational anthropology; heritage and memory studies; Florida archaeology; Eastern U.S. prehistory; Mesoamerican archaeology; Mediterranean prehistory; archaeological science; bioarchaeology; cultural resource management; public archeology.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE is required, however, there is no minimum score for admission into the major
- a statement of purpose
- a signed research ethics statement
- at least three letters of recommendation
- a resume or curriculum vitae
- supplemental department application form
- writing sample (optional)

Curriculum Requirements

Total Minimum Hours - 30 credit hours

- **Core Requirements - 6 hours**
- **Required Track - 18 hours**
- *Optional Concentrations 9-12 hours**
- **Internship/Thesis – 6 Credit Hours minimum**

**students have the option of earning a concentration through coursework options within the track*

Core Requirements (6 Credit Hours)

- ANG 6705 Foundations of Applied Anthropology I **Credit Hours: 3**
- ANG 5486 Quantitative Methods in Anthropology **Credit Hours: 3**

Required Track (18 Credit Hours)

Students select from one of the following Tracks:

Archaeology Track

- ANG 6110 Archaeology Theory and Current Issues **Credit Hours: 3**
- ANG 6197 Public Archaeology **Credit Hours: 3**
- Two courses in Archaeology **Credit(s): 6**
- One course in Anthropological Methods **Credit(s): 3**
- One course in Anthropology **Credit(s): 3** (*can be external graduate course with approval*)

Biological Anthropology Track

- ANG 6701 Contemporary Applied Anthropology **Credit Hours: 3 OR**



- ANG 6110 Archaeology Theory and Current Issues **Credit Hours: 3**
- ANG 6516 Human Variation **Credit Hours: 3**
- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3 OR**
- ANG 6585 Theories in Applied Bioanthropology **Credit Hours: 3**
- Three courses in Anthropology **Credit(s): 9** (*3 credits can be an external graduate course with approval*)

Cultural Anthropology Track

- ANG 6701 Contemporary Applied Anthropology **Credit Hours: 3**
- ANG 6766 Research Methods in Applied Anthropology **Credit Hours: 3**
- Four courses in Anthropology **Credit(s): 12** (*3 credits can be an external graduate course with approval*)

Medical Anthropology Track

- ANG 6701 Contemporary Applied Anthropology **Credit Hours: 3**
- ANG 6766 Research Methods in Applied Anthropology **Credit Hours: 3**
- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3**
- Three courses in Anthropology **Credit(s): 12** (*3 credits can be an external graduate course with approval*)

Paul D. Coverdell Fellows Program in Applied Anthropology for Returning Peace Corps Volunteers

Students in the Coverdell Program are required to complete internships related to the program of study in underserved American Communities.

For more information on the Fellows Program:

<https://www.peacecorps.gov/volunteer/university-programs/coverdell-fellows/>

Concentration Requirements (Optional)

Students may select one of the following concentrations. Credit hours used toward the concentration would take the place of discretionary courses in the track.

Concentration in Archaeological and Forensic Sciences (12 Credit Hours)

Two required courses (3 credits each), consisting of

- ANG 6701 Contemporary Applied Anthropology **Credit Hours: 3**
- ANG 6115 Seminar in Archaeology **Credit Hours: 3** (Archaeological Science)
- ANG 6745 Forensic Anthropology **Credit Hours: 3 OR**
- ANG 6511 Seminar in Physical Anthropology **Credit Hours: 3** (Forensic Science)

Two additional courses (3 credits each) selected from one of the following: one may be outside of Anthropology



- ANG 6189 Ancient Diets **Credit Hours: 3**
- ANG 6195 Ancient Trade **Credit Hours: 3**
- ANG 6511 Seminar in Physical Anthropology **Credit Hours: 3** (Anthrogenetics)
- ANG 6536 Bioarchaeology **Credit Hours: 3**
- ANG 6745 Forensic Anthropology **Credit Hours: 3**
- ANG 6741 Introduction to Forensic Sciences **Credit Hours: 3**
- ANG 6511 Seminar in Physical Anthropology **Credit(s): 3** (Advanced Methods in Forensic Anthropology)
- ANG 6115 Seminar in Archaeology **Credit Hours: 3** (Soils)
- ANG 6115 Seminar in Archaeology **Credit(s): 3** (Technologies for Heritage Preservation)

External Courses That Also Qualify

(only one can count towards concentration):

- GIS 6038C Remote Sensing **Credit Hours: 3**
- GIS 6039 Remote Sensing Seminar **Credit Hours: 3**
- GLY 6255 Tracer Geochemistry **Credit Hours: 3**
- GLY 6285C Analytical Techniques in Geology **Credit Hours: 3**
- GLY 6475C Principles of Applied Geophysics **Credit Hours: 4**
- GLY 6739 Selected Topics in Geology **Credit Hours: 1-4**

Concentration in Bio-cultural Medical Anthropology (12 Credit Hours)

Four Graduate Medical Anthropology Courses with the ANG Prefix:

- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3** (Theory and Methods in Medical Anthropology)
- ANG 6511 Seminar in Physical Anthropology **Credit Hours: 3** (Theory and Methods of Applied Biological Anthropology)
- ANG 6511 Seminar in Physical Anthropology **Credit(s): 3** (e.g. Human Variation, Anthropology of Growth and Development, or Forensic Anthropology)

Or one of the following:

- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3** (e.g. Issues in Migrant Health, Anthropology and Development, Reproductive Health, Health & Medical System, Socio-Cultural Aspects of HIV/AIDS)
- ANG 5937 Seminar in Anthropology **Credit Hours: 2-4**

Concentration in Cultural Resource Management (9 Credit Hours)

Graduate class in Geographic Information Systems, whether offered in Anthropology or another department.

Graduate students pursuing a concentration in Cultural Resource Management must take the basic course requirements of their graduate program.

- ANG 6197 Public Archaeology **Credit Hours: 3**
- ANG 6115 Seminar in Archaeology **Credit Hours: 3** (Current Issues and Techniques in Cultural Resources Management)

One of the following courses:



(or other course approved by Graduate Director):

- ANG 6448 Regional Problems in Urban Anthropology **Credit Hours: 3** (Issues in Heritage Tourism)
- ANG 6115 Seminar in Archaeology **Credit Hours: 3** (e.g. Historical Archaeology, Florida Archaeology, Southeastern Archaeology, Museum Methods)

Concentration in Heritage Studies (9 Credit Hours)

- ANG 6436 Issues in Heritage Tourism **Credit Hours: 3**

And two courses from among the following options:

- ANG 5395 Visual Anthropology **Credit Hours: 3**
- ANG 6081 Museum Methods **Credit Hours: 4**
- ANG 6197 Public Archaeology **Credit Hours: 3**
- ANG 6436 Issues in Heritage Tourism **Credit Hours: 3**
- ANG 6448 Regional Problems in Urban Anthropology **Credit Hours: 3** (topics include Ethnohistory, Museums in Culture, Ethnicity and Public Policy, Heritage Research and Management, Culture and Environmental Resources)
- ANG 7487 Advanced Quantitative Research Methods Applied Anthropology **Credit Hours: 3**

Comprehensive Exam

The comprehensive exam requirement is satisfied upon successful completion of ANG 6705 Foundations of Applied Anthropology I. Successful completion entails earning a final grade of "B" or better in this course.

Internship/Thesis (6 Credit Hours Minimum)

The MA offers flexibility, depending on the student's career plans. Students choose from one of three professional development options, which must be decided in consultation with their major professor before the proposal is delivered. All three options are expected to have an applied component, but differ in emphasis and setting. Each option requires a minimum of six credit hours, taken in thesis and/or directed research internship as outlined below.

- ANG 6915 Directed Research Internship **Credit Hours: 1-19** (0-3 credits for this program)
- ANG 6971 Thesis: Master's **Credit Hours: 2-19** (3-6 credits for this program)

Research Option

This option is designed for students who are planning a career in applied research and are considering a Ph.D. Degree. The final product is a thesis, which may be delivered as either a traditional thesis or as a peer-reviewed journal article. If an article is submitted, the student must be first author and the journal selected in consultation with the M.A. Committee. The publication must be formally accepted, but not necessarily published, to fulfill this requirement. Students register for six (6) hours of thesis.

Internship-Based Research Option:

This option is designed for students who are planning a career in applied research and practice. It is designed for students whose thesis research is situated in an Internship setting. A formal Internship is required, and the final product is a thesis, which may be delivered as either a traditional thesis or a peer-reviewed journal article (same guidelines apply as in the Research option). Students register for three (3) hours of directed research internship and three (3) hours of thesis.



Internship Option

This option is designed for students who are planning a career in applied research and practice. A formal Internship is required, and the final product consists of 1) a technical report or installation delivered to the host agency and 2) a substantial Internship report delivered to the M.A. committee. The student must be the first author on the technical report, and it must represent new and original work. The targeted length and substance of the Internship report should be discussed with the M.A. committee and agreement reached in advance. Students register for three (3) hours of directed research and three (3) hours of thesis.

Concurrent Degree

Also available as a Concurrent Degree



Applied Anthropology, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Archaeological and Forensic Sciences
Bio-cultural Medical Anthropology
Cultural Resource Management
Heritage Studies

Also offered as a Concurrent Degree

Contact Information

College: Arts and Sciences

Department: Anthropology

Contact Information:

<http://www.grad.usf.edu/majors>

<http://anthropology.usf.edu/graduate/>

The Ph.D. in Applied Anthropology, initiated in 1984, was the first doctoral major of its kind and has to date awarded more than 140 degrees. The major is designed to prepare students to conduct research, teach, and practice in both academic and nonacademic settings. Students participate in either a structured research internship or independent field research for two consecutive semesters. Students must choose one of four tracks, which guide curriculum and required courses: Archaeology, Biological Anthropology, Cultural Anthropology, or Medical Anthropology. In addition, students can select elective courses to fulfill an optional concentration in Archaeological and Forensic Sciences, Biocultural Medical Anthropology, Cultural Resource Management, or Heritage Studies.

Major Research Areas:

Human biology; biocultural medical anthropology; nutrition/diet; growth and development; population genetics; forensic anthropology and human rights; neuroanthropology; stress; immune function; maternal and child health; reproductive health; HIV/AIDS; disasters; water and sanitation; migrant health; health policy; sociocultural and historical anthropology; transnational migration; labor; neoliberal globalization; citizenship; media and visual anthropology; environmental anthropology; urban anthropology; pedagogy and educational anthropology; heritage and memory studies; Florida archaeology; Eastern U.S. prehistory; Mesoamerican archaeology; Mediterranean prehistory; archaeological science; bioarchaeology; cultural resource management; public archeology.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Master's degree in Anthropology or related field
- GRE required
- Concurrent Degree applicants (Anthropology/Public Health) must also meet GRE requirements for the MPH)
- a statement of purpose
- a signed research ethics statement
- at least 3 letters of recommendation
- a curriculum vitae
- supplemental department application form
- writing sample (optional)



Curriculum Requirements

Total minimum required hours - 42 hours beyond the M.A.

- Core Requirements - 6 Credit Hours
- Track - 30 Credit Hours
- Internship/Dissertation Research- 3 Credit Hours
- Dissertation - 3 Credit Hours Minimum
- Concentration – Optional – 9-12 hours minimum*

*students have the option of earning a concentration through coursework options within the track.

Core Requirements (6 Credit Hours)

- ANG 7938 Doctoral Proseminar in Applied Anthropology **Credit Hours: 3**
- ANG 7487 Advanced Quantitative Research Methods Applied Anthropology **Credit Hours: 3**

Ph.D. students who do not have a recent (within the past five years) M.A. in Anthropology are also required to take:

- ANG 6705 Foundations of Applied Anthropology I **Credit Hours: 3** (If Required)

Tracks (30 Credit Hours)

Students select one of the following tracks:

Archaeology Track:

- ANG 6110 Archaeology Theory and Current Issues **Credit Hours: 3**
- ANG 6197 Public Archaeology **Credit Hours: 3**
- ANG 6115 Seminar in Archaeology **Credit Hours: 3** (Advanced Archaeological Theory)
- One course in Anthropological Methods **Credit Hours: 3**
- Four courses in Anthropology **Credit Hours: 12**
- Two Courses External to Anthropology **Credit Hours: 6**

Biological Anthropology Track

- ANG 6701 Contemporary Applied Anthropology **Credit Hours: 3**
OR
- ANG 6110 Archaeology Theory and Current Issues **Credit Hours: 3**
- ANG 6516 Human Variation **Credit Hours: 3**
- ANG 6585 Theories in Applied Bioanthropology **Credit Hours: 3**
- Four courses in Anthropology **Credit Hours: 12**
- Two courses External to Anthropology **Credit Hours: 6**
- One Anthropology or External course **Credit Hours: 3**

Cultural Anthropology Track

- ANG 6084 Anthropological Theory Today **Credit Hours: 3**



- ANG 6701 Contemporary Applied Anthropology **Credit Hours: 3**
- ANG 6766 Research Methods in Applied Anthropology **Credit Hours: 3**
- ANG 7704 Legal and Ethical Aspects of Applied Anthropology **Credit Hours: 3**
- Three courses in Anthropology **Credit Hours: 9**
- One Anthropology or External Course **Credit Hours: 3**
- Two courses External to Anthropology **Credit Hours: 6**

Medical Anthropology Track

- ANG 6084 Anthropological Theory Today **Credit Hours: 3**
- ANG 6701 Contemporary Applied Anthropology **Credit Hours: 3**
- ANG 6766 Research Methods in Applied Anthropology **Credit Hours: 3**
- ANG 7704 Legal and Ethical Aspects of Applied Anthropology **Credit Hours: 3**
- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3**
Taken as Theory and Methods in Medical Anthropology **Credit Hours 3**
- Two courses in Medical Anthropology **Credit Hours: 6**
- One Anthropology or External course **Credit Hours: 3**
- Two courses External to Anthropology **Credit Hours: 6**

External Curriculum Requirement

The external curriculum requirement for each track is designed to promote interdisciplinary perspectives. As part of each track students are expected to enroll in graduate-level courses in departments other than Anthropology, selected on the basis of professional interests and in consultation with the major advisor (if the student takes only two external courses, he/she must take an additional anthropology elective). Refer to each track for specific requirements. Students who enter the Ph.D. program with post-baccalaureate degrees in disciplines other than Anthropology may be able to use that expertise to satisfy the requirement, after consultation with the major advisor and approval of the Graduate Director. In these cases, the remaining credit hours will be fulfilled through additional coursework in Anthropology.

Concentration Requirements (Optional, not required)

Credit hours used toward the concentration would take the place of discretionary courses in the track.

Concentration in Archaeological and Forensic Sciences (12 Credit Hours)

Two required courses:

- ANG 6115 Seminar in Archaeology **Credit Hours: 3** (Archaeological Science)
- ANG 6745 Forensic Anthropology **Credit Hours: 3** **OR**
- ANG 6511 Seminar in Physical Anthropology **Credit Hours: 3** (Forensic Science)

And two additional courses (3 Credits each)

Selected from the following; one may be outside of Anthropology

- ANG 6189 Ancient Diets **Credit Hours: 3**



- ANG 6195 Ancient Trade **Credit Hours: 3**
- ANG 6511 Seminar in Physical Anthropology **Credit Hours: 3**
Taken as:
 - Anthrogenetics
 - Advanced Methods in Forensic Anthropology
 - ANG 6536 Bioarchaeology **Credit Hours: 3**
 - ANG 6745 Forensic Anthropology **Credit Hours: 3**
 - ANG 6741 Introduction to Forensic Sciences **Credit Hours: 3**
 - ANG 6525 Human Osteology **Credit Hours: 3**
 - ANG 6115 Seminar in Archaeology **Credit Hours: 3**
Taken as:
 - Soils
 - Technologies for Heritage Preservation

External courses that also qualify

(only 1 can count towards concentration):

- GIS 6038C Remote Sensing **Credit Hours: 3**
- GIS 6039 Remote Sensing Seminar **Credit Hours: 3**
- GLY 6255 Tracer Geochemistry **Credit Hours: 3**
- GLY 6285C Analytical Techniques in Geology **Credit Hours: 3**
- GLY 6475C Principles of Applied Geophysics **Credit Hours: 4**
- GLY 6739 Selected Topics in Geology **Credit Hours: 1-4**

Concentration in Bio-Cultural Medical Anthropology (12 Credit Hours)

Four graduate medical anthropology courses with the ANG prefix:

- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3**
- ANG 6511 Seminar in Physical Anthropology **Credit Hours: 3** (Theory and Methods of Applied Biological Anthropology)
- ANG 6511 Seminar in Physical Anthropology **Credit(s): 3** (e.g. Human Variation, Anthropology of Growth and Development, Forensic Anthropology)
- ANG 6469 Selected Topics in Medical Anthropology or ANG 5937 Seminar in Anthropology (e.g. Nutritional Anthropology, Socio-Cultural Aspects of HIV/AIDS, Issues in Migrant Health, Anthropology and Development, Reproductive Health)

Concentration in Cultural Resource Management (9 Credit Hours)

Required:

- ANG 6197 Public Archaeology **Credit Hours: 3**
- ANG 6115 Seminar in Archaeology **Credit Hours: 3** (Current Issues & Techniques in Cultural Resource Management)

And one of the following:

- ANG 6448 Regional Problems in Urban Anthropology **Credit Hours: 3** (Issues in Heritage Tourism) (or other as approved by Graduate Director)



- ANG 6115 Seminar in Archaeology **Credit Hours: 3** (Historical Archaeology, Florida Archaeology, Southeastern Archaeology, Museum Methods, or other as approved by Graduate Director)

Graduate Class in Geographic Information Systems (3 Credit Hours)

The GIS course can be offered in Anthropology or another department.

Concentration in Heritage Studies (9 Credit Hours)

Required

- ANG 7708 Selected Topics in Applied Anthropology **Credit Hours: 3**
Taken as **Issues in Heritage Studies** (3 Credit Hours)

Two electives from among the following options:

- ANG 5395 Visual Anthropology **Credit Hours: 3**
- ANG 6081 Museum Methods **Credit Hours: 4**
- ANG 6197 Public Archaeology **Credit Hours: 3**
- ANG 6436 Issues in Heritage Tourism **Credit Hours: 3**
- ANG 6448 Regional Problems in Urban Anthropology **Credit Hours: 3** (*Topics include 'Ethnohistory,' 'Museums in Culture,' 'Ethnicity and Public Policy,' 'Heritage Research and Management,' 'Culture and Environmental Resources,')
- ANG 6676 - Seminar in Anthropological Linguistics **Credit(s): 3** (When the topic is 'Language and Culture' or 'Language and Racism')
- ANG 5937 Seminar in Anthropology **Credit Hours: 2-4**
Seminar in Anthropological Linguistics (when the topic is "Language and Culture" or "Language and Racism") (3 Credit Hours)
- ANG 7487 Advanced Quantitative Research Methods Applied Anthropology **Credit Hours: 3**

Language Requirement

All Ph.D. students are required to demonstrate proficiency in a foreign language, the specifics to be determined by the student and the supervisory committee, taking into account the nature of the student's research. Minimal proficiency is demonstrated by the ability to satisfactorily translate a selection of the scholarly literature in the foreign language, with the occasional aid of a dictionary or completion of an advanced level language study course. The supervisory committee may assess or require additional levels of proficiency depending on the nature of individual student research. The language requirement must be satisfied no later than the date of the dissertation defense.

Qualifying Examination

Qualifying examination covering area of specialization within applied anthropology and external specialization.

Internship/Dissertation Research (3 Credit Hours Minimum)

Two-semester internship or dissertation research.

- ANG 7940 Doctoral Internship in Applied Anthropology **Credit Hours: 1-15** (Minimum of 3 Credit Hours)
- ANG 7980 Dissertation: Doctoral **Credit Hours: 2-15** (Minimum of 3 Credit Hours for this requirement)



Dissertation (3 Credit Hours Minimum)

- ANG 7980 Dissertation: Doctoral **Credit Hours: 2-15** (Dissertation, based on research or internship. (Minimum of 3 Credit Hours for this requirement)

Paul D. Coverdell Fellows Program in Applied Anthropology for Returning Peace Corps Volunteers

Students in the Coverdell Program are required to complete internships related to the program of study in underserved American Communities.

For more information on the Fellows Program:

<https://www.peacecorps.gov/volunteer/university-programs/coverdell-fellows/>

Concurrent Degree

Also available as a Concurrent Degree



Department of Economics

Major



Economics, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Economics

Contact Information: <http://www.grad.usf.edu/majors>

The M.A. in Economics prepares students for careers as professional economists in business and government. It is also excellent preparation for continued graduate study in economics.

Major Research Areas:

Health economics, public economics, urban and regional economics, international trade, economic development, industrial organization, advanced theory, and advanced econometrics

Admission Information

Must meet University requirements (see Graduate Admissions), as well as requirements for admission to the major, listed below.

- GRE with target scores of 152 (490) on the verbal portion and 152 (670) on the quantitative portion.
- Minimum of 1 course in calculus.*
- Minimum of 1 course in statistics.*
- Undergraduate Intermediate-level microeconomics and undergraduate intermediate-level macroeconomics*

*Applicants must earn a grade of B or better in each of these courses.

Curriculum Requirements

Total Minimum hours - 30 hours

- **Core - 12 credit hours**
- **Electives - 18 credit hours**

All students are required to take courses in advanced economic theory and econometrics. Students preparing for doctoral studies select from these and additional courses in economic theory, mathematics, and quantitative methods. Where appropriate students may select courses in other departments in the University. At least 24 hours must be in Economics not including ECO 6906 Independent Study and ECO 6917 Directed Research.

Core Requirements (12 Credit Hours)

- ECO 6115 Microeconomics I **Credit Hours: 3**
- ECO 6206 Macroeconomics I **Credit Hours: 3**
- ECO 6405 Mathematical Economics I **Credit Hours: 3**
- ECO 6424 Econometrics I **Credit Hours: 3**



Electives (18 Credit Hours)

Economics electives must be drawn from the following set of graduate-level courses offered in the Department of Economics. With the approval of the Graduate Director, at most two unrestricted elective courses may be satisfied by graduate-level courses offered by any department within the University.

- ECO 6120 Economic Policy Analysis **Credit Hours: 3**
- ECO 6305 History of Economic Thought **Credit Hours: 3**
- ECO 6425 Econometrics II **Credit Hours: 3**
- ECO 6505 Public Finance **Credit Hours: 3**
- ECO 6525 Public Sector Economics **Credit Hours: 3**
- ECO 6706 International Trade: Theory and Policy **Credit Hours: 3**
- ECO 6936 Selected Topics in Economics **Credit Hours: 1-4 Behavioral Economics (3 credit hours)**
Forecasting and Time Series Analysis (3 credit hours)
- ECO 7116 Microeconomics II **Credit Hours: 3**
- ECO 7207 Macroeconomics II **Credit Hours: 3**
- ECO 7406 Mathematical Economics II **Credit Hours: 3**
- ECO 7426 Econometrics III **Credit Hours: 3**
- ECP 6205 Labor Economics I **Credit Hours: 3**
- ECP 6405 Industrial Organization I **Credit Hours: 3**
- ECP 6408 Economics of Organization **Credit Hours: 3**
- ECP 6415 Issues in Regulation and Antitrust **Credit Hours: 3**
- ECP 6456 Law and Economics **Credit Hours: 3**
- ECP 6536 Economics of Health Care I **Credit Hours: 3**
- ECP 6614 Urban Economics **Credit Hours: 3**
- ECP 6624 Regional Economics **Credit Hours: 3**
- ECP 7207 Labor Economics II **Credit Hours: 3**
- ECP 7406 Industrial Organization II **Credit Hours: 3**
- ECP 7537 Economics of Health Care II **Credit Hours: 3**
- ECS 6015 Economic Development **Credit Hours: 3**

Comprehensive Exam

Students must pass an oral examination conducted by a panel of three faculty members who have taught courses in the student's major. At least one faculty member must be drawn from those who teach the core courses. The oral examination provides a forum for the student to provide evidence that s/he has sufficient knowledge and breadth of fundamental economic concepts so as to be able to undertake rigorous economic analysis, both theoretical and empirical in nature.

Non-Thesis

There is no thesis required for this major.



Economics, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Economics

Contact Information: <http://www.grad.usf.edu/majors>

The Doctor of Philosophy in Economics prepares students for careers as professional economists in academia, business and government.

Major Research Areas: Health Economics, Industrial Organization, International Trade/Economic Development, Public Economics, Urban and Regional Economics

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Must have taken the GRE within the preceding five years with target scores of 65th percentile on the verbal portion and 65th percentile on the quantitative portion.
- Minimum of 2 courses in calculus*
- Minimum of 1 course in probability and statistics*
- Undergraduate Intermediate-level microeconomics and undergraduate intermediate-level macroeconomics*

*Applicants must earn a grade of B or better in each of these courses.

Curriculum Requirements

Total Minimum Hours - 72 hours

- **Core Requirements - 27 Credit Hours**
- **Fields - 12 Credit Hours**
- **Electives/Dir Research- 22 Credit Hours**
- **Dissertation - 11 Credit Hours Minimum**

Core Requirements (27 Credit Hours)

- ECO 6115 Microeconomics I **Credit Hours: 3**
- ECO 6206 Macroeconomics I **Credit Hours: 3**
- ECO 6405 Mathematical Economics I **Credit Hours: 3**
- ECO 6424 Econometrics I **Credit Hours: 3**
- ECO 6425 Econometrics II **Credit Hours: 3**
- ECO 7116 Microeconomics II **Credit Hours: 3**
- ECO 7207 Macroeconomics II **Credit Hours: 3**
- ECO 7406 Mathematical Economics II **Credit Hours: 3**



- ECO 7426 Econometrics III **Credit Hours: 3**

Fields (12 Credit Hours)

Select two pairs from the groupings below or from other pairs that the department may choose to offer:

- ECP 6536 Economics of Health Care I **Credit Hours: 3**
- ECP 7537 Economics of Health Care II **Credit Hours: 3**

- ECS 6015 Economic Development **Credit Hours: 3**
- ECO 6706 International Trade: Theory and Policy **Credit Hours: 3**

- ECP 6405 Industrial Organization I **Credit Hours: 3**
- ECP 7406 Industrial Organization II **Credit Hours: 3**

- ECO 6505 Public Finance **Credit Hours: 3**
- ECO 6525 Public Sector Economics **Credit Hours: 3**

- ECP 6614 Urban Economics **Credit Hours: 3**
- ECP 6624 Regional Economics **Credit Hours: 3**

Electives/Directed Research/Dissertation (33 Credit Hours)

Of this 33 hours minimum at least six hours must be met with additional graduate-level structured coursework approved by either the Graduate Director or the student's (Co-) Major Professor(s) and at least 21 hours by a combination of ECO 6917 Directed Research and ECO 7980 Dissertation with Dissertation comprising at least 11 of these 21 hours.

Qualifying Examination

The qualifying examination is offered in two parts.

The First Part Covers

- ECO 6405 Mathematical Economics I **Credit Hours: 3**
- ECO 7406 Mathematical Economics II **Credit Hours: 3**
- ECO 6115 Microeconomics I **Credit Hours: 3**
- ECO 6206 Macroeconomics I **Credit Hours: 3**

The Second Part Covers

- ECO 7116 Microeconomics II **Credit Hours: 3**
- ECO 6425 Econometrics II **Credit Hours: 3**
- ECO 7426 Econometrics III **Credit Hours: 3**

Dissertation (11 Credit Hours Minimum)

- ECO 7980 Dissertation **Credit Hours: 2-19**



Graduation Requirements:

- Complete 27 credit hours of required coursework with required GPA.
- Complete 12 credit hours of economics field coursework with required GPA.
- Complete all credit hours of electives, of which there must be at least six with the required GPA.
- Pass both parts of the qualifying examination
- Complete at least 21 credit hours of directed research/dissertation with a minimum of 11 of these credit hours being dissertation.
- Write and successfully defend the doctoral dissertation proposal.
- The sum total of elective/directed research/dissertation credit hours must be at least 33.
- Write and successfully defend the doctoral dissertation.

Students with M.A. Degrees in Economics from External Institution

Students who already hold an M.A. degree in Economics from an external institution prior to entering the Ph.D. program are offered the opportunity to take the First-Year Qualifying Examination in the summer before entering the program. Students who chose this option and pass the exam are waived from taking the associated four required classes: Mathematical Economics I, Mathematical Economics II, Microeconomics I, and Macroeconomics I. In addition, the total number of coursework credit hours for these students is reduced from 45 to 39. The minimum total number of graduate level credit hours required is still 72. Students who choose to take the First-Year Qualifying Exam, but do not pass, will take these four required courses during their first year in the major. They will then take the First-Year Qualifying Exam the following summer.



Department of Sociology

Major



Sociology, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Sociology

Contact Information: <http://www.grad.usf.edu/majors>

The Sociology M.A. provides a foundation in a broad range of sociological theories and research methods and an opportunity for pursuing specialized interests in elective Sociology courses, courses in other departments, and thesis research. Many of our M.A. recipients continue in a sociology Ph.D. Others teach in secondary schools and junior colleges, are employed in mental health services and research, in human resources management, and government organizations, or work as research consultants and market analysts.

Major Research Areas:

Identities and Communities; Social Inequalities and Social Justice; Social Movements and Globalization; Urban Problems and Culture; Immigration and Migration; Race and Ethnicity; Networks, Health and Wellbeing; Gender, Sexualities, and Families; Childhood, Youth, and Education

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- three letters of recommendation
- personal statement
- a writing sample that demonstrates strong scholarly research
- GRE required – preferred scores of 153V (61st percentile), 144Q (17th percentile)

Curriculum Requirements

Total Minimum Hours: 36

- **Core - 9 credit hours**
- **Electives - 21 credit hours**
- **Thesis - 6 credit hours**

Core Requirements (9 Credit Hours)

- SYA 6126 Contemporary Sociological Theory **Credit Hours: 3**
- SYA 6305 Methods of Research **Credit Hours: 3**
- SYA 6405 Sociological Statistics **Credit Hours: 3**

Electives (21 Credit Hours)



This 21 hours of electives must include at least 12 hours in scheduled graduate courses in Sociology). With approval of the Graduate Director, a student may transfer up to six (6) hours of credit from another university or up to 12 hours of credit taken as a non-degree seeking student at USF. With Graduate Director's approval, up to nine (9) hours of elective credit may be taken in a department other than Sociology.

Comprehensive Exam

Students are required to complete a thesis proposal defense in lieu of a comprehensive exam.

Thesis (6 Credit Hours)

The Sociology Department requires a thesis for the capstone course to be completed under the supervision of a thesis committee (see Guide to Graduate Programs for more information).

- SYA 6971 Thesis: Master's **Credit Hours: 2-19 (6 credits for this program)**



Sociology, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Sociology

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. program provides a foundation in a broad range of sociological theories and research methods, and an opportunity for pursuing specialized interests in elective Sociology courses, courses in other departments, and dissertation research.

Major Research Areas:

Identities and Communities; Social Inequalities and Social Justice; Social Movements and Globalization; Urban Problems and Culture; Immigration and Migration; Race and Ethnicity; Networks, Health and Wellbeing; Gender, Sexualities, and Families; Childhood, Youth, and Education

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below. Note: meeting these minimum requirements does not guarantee admission into the major. Applicants must have:

- Three letters of reference
- Personal Statement
- Example of Written Work
- GRE Required – preferred scores 160V (86th percentile), 144Q (17th percentile)

Curriculum Requirements

Total Minimum Hours: 60 credit hours post-Masters

- **Core - 6 credit hours**
- **Disciplinary Requirements - 9 credit hours**
- **Specialty Research Methods - 6 credit hours**
- **Electives - 12 credit hours**
- **Other Coursework - 9 credit hours**
- **Dissertation - 18 credit hours**

Core Requirements (6 Credit Hours)

- SYA 7939 Selected Topics for Ph.D. Students **Credit Hours: 3**
Interdisciplinary Ph.D. Professional Seminar (required as a first course for all students) (3 credit hours)
Interdisciplinary Capstone Seminar (Required as a final course for all students) (3 credit hours)



Disciplinary Requirements (9 Credit Hours) *

- SYA 7939 Selected Topics for Ph.D. Students **Credit Hours: 3**
Advanced Theory and Methods I (3 credit hours)
Advanced Theory and Methods II (3 credit hours)
- SYG 6936 Seminar in Teaching Sociology **Credit Hours: 3**

Specialty Research Methods Course (6 Credit Hours)

Two research methods courses in any discipline chosen in consultation with advisor.

Electives (12 Credit Hours)

Students must complete two sociology electives and two interdisciplinary electives to be chosen in consultation with the faculty advisor.

Other Coursework (9 credit hours)

Students complete a combination of the following as determined by student and faculty mentor.

- SYA 7988 Dissertation Proposal **Credit Hours: 1-6**
- SYA 6909 Independent Study **Credit Hours: 1-19**
- SYA 6912 Directed Research **Credit Hours: 1-19**
Other sociology courses approved by advisor.

Comprehensive Qualifying Exam

Students also are required to complete a comprehensive portfolio of competencies which takes the place of a qualifying exam. The portfolio will measure theoretical and methodological knowledge, substantive knowledge beyond the particular topic of the dissertation and professional level proficiency.

Dissertation (18 Credit Hours)

- SYA 7980 Doctoral Dissertation **Credit Hours: 2-20 (18 credits for this program)**



Department of Women's and Gender Studies

Major



Women's and Gender Studies, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: Women's and Gender Studies

Contact Information: <http://www.grad.usf.edu/majors>

The M.A. in Women's and Gender Studies is designed to serve the needs of a variety of students. This program prepares students both for continued academic study and for positions outside the academy, especially in social-justice and public-service organizations. Graduates are prepared for Ph.D. and counseling programs, law schools, and public and private sector careers. The thesis option is recommended for students who intend eventually to pursue a doctoral or other advanced degree. Either the portfolio option or the internship option is recommended for students who seek the M.A. as a terminal degree.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below. Applicants without training in Women's and Gender Studies are admitted on a conditional basis. In addition, applicants must submit the following requirements:

- GRE scores (preferred percentiles for Verbal Reasoning at 75 or better and Analytical Writing at 70 or better)
- A personal narrative statement of purpose
- A writing sample (appropriate examples include a term paper or research paper)
- Three letters of recommendation
- Resume or Curriculum Vita (CV)

Curriculum Requirements

Minimum Hours: 36 credit hours

- **Core – 9 credit hours**
- **Electives – 21 credit hours**
- **Thesis/Internship/Portfolio Option – 6 credit hours**

Core Requirements (9 Credit Hours)

- WST 6001 Feminist Research and Methodology **Credit Hours: 3**
- WST 6560 Advanced Feminist Theory **Credit Hours: 3**
- WST 6003 Feminist Scholarship and Pedagogy **Credit Hours: 3**

Electives (21 Credit Hours)

To be selected from



- WST graduate elective and special topics course offerings;
- Graduate courses on issues surrounding the intersection of gender/class/race/sexuality offered by other departments and approved by the WGS graduate director or student's major professor;
- No more than one other graduate-level course approved by the WGS graduate director.

Comprehensive Examinations

In lieu of comprehensive examination, defense of final projects is used as the culminating assessment: defense of thesis for the thesis option, defense of internship narrative for the internship option, and defense of portfolio for the portfolio option.

Thesis, Internship, or Portfolio Option (6 credit hours)

At the end of 18 hours of coursework, students select the thesis, internship, or portfolio option.

Thesis

- WST 6971 Thesis **Credit Hours: 1-9**

Taken over two semesters, the student will develop a thesis proposal approved by the student's thesis committee and complete a Master's thesis on the approved topic. The completed thesis must be defended at an oral defense.

Internship

- WST 5940 Internship in Women's Studies **Credit Hours: 3-6**

The internship experience, typically over two semesters, should take place in a human service agency or other organization that focuses on women, sexualities, or gender issues. The internship is approved by the student's internship committee. The student will be required to write a narrative report that describes the internship in detail and analyzes the experience in terms of appropriate theoretical frameworks. The completed narrative must be defended at an oral defense.

Portfolio

In lieu of thesis or internship hours, students must take two additional electives and prepare a portfolio under the guidance of the major professor. The portfolio, approved by the student's committee, will consist of one to two polished academic papers produced for graduate courses, academic conferences, or scholarly publication.



School of Information

Major



Intelligence Studies, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Cyber Intelligence
Strategic Intelligence

Contact Information

College: Arts and Sciences
Department: School of Information

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Science (M.S.) in Intelligence Studies is an online, applied graduate major designed to train a "next generation" of information and intelligence professionals for the private and public sectors. USF's Intelligence Studies major is built around an innovative STEM-based model for professional analytic education. The curriculum focuses primarily on developing analytic competencies, and subsequently allows students to focus on specialized subject-matter areas. The principal aim is to train problem-solvers who understand strategic concepts and analytic methodologies and can apply that knowledge to advance an organization's interests and objectives. Graduates will be capable of developing and evaluating new knowledge; generating and analyzing courses of action; expressing clearly reasoned opinions; and communicating effectively in writing, oral presentation, and visual display.

Major Research Areas: Strategic Intelligence, Cyber Intelligence, Intelligence Analysis, Information Studies, Information Analytics, Cybersecurity

Admissions Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE is not required
- 250-500 word essay describing academic and professional background, reasons for pursuing the degree, and professional goals pertaining to intelligence, analytics, and/or information
- Professional resume or CV
- Students applying to the Cyber Intelligence Concentration must also have technical knowledge, to include a basic understanding of:
 - Programming/coding (e.g. Python, Java, C++), computational problem solving, and of
 - major computer Operating Systems and how they function

Curriculum Requirements

Minimum Hours - 36 Credit Hours

- **Core Requirements – 18 Credit Hours**
- **Concentrations - 6-12 Credit Hours**
- **Electives – 6 Credit Hours (Strategic Intelligence Only)**
- **Comprehensive Exam/Capstone- 3 Credit Hours**



- **Internship – 3 Credit Hours**

This program is offered partially online. Courses may be taken online or on-campus, pending availability.

Core Requirements (18 Credit Hours)

- LIS 6700 Information Strategy and Decision-Making **Credit Hours: 3**
- LIS 5802 Information Analytics **Credit Hours: 3** (using R)
- LIS 6674 Open Source Intelligence (OSINT) **Credit Hours: 3**
- LIS 5937 Selected Topics in Library Studies **Credit Hours: 1-4**
Project Management (3 Credit Hours) (Proposed 6674)
- LIS 6260 Foundations of Information Science and Technology **Credit Hours: 3**
- LIS 6107 Advanced Professional & Technical Communication for Analysts **Credit Hours: 3**

Concentrations

Students select from the following Concentrations:

Strategic Intelligence (12 Credit Hours)

- LIS 6703 Core Concepts in Intelligence **Credit Hours: 3**
- LIS 6702 Advanced Intelligence Analytic Methods **Credit Hours: 3**
- An additional 6 hours chosen with consultation from the Graduate Director

Cyber Intelligence (12 Credit Hours)

- LIS 6703 Core Concepts in Intelligence **Credit Hours: 3**
- LIS 6702 Advanced Intelligence Analytic Methods **Credit Hours: 3**
- LIS 6709 Cyber Intelligence **Credit Hours: 3**
- LIS 6670 Advanced Cyber Intelligence **Credit Hours: 3**

Thesis/Non-Thesis:

No thesis is required.

Comprehensive Exam (3 Credit Hours)

The successful completion of the Capstone Portfolio serves in lieu of the Comprehensive Exam.

- LIS 6906 Independent Study **Credit Hours: 1-4 (3 credits for the program)** (or equivalent) - Capstone (Integrated Portfolio of Competencies)

Internship (3 Credit Hours)

- LIS 6946 Supervised Field Work **Credit Hours: 3** (Experiential Learning (Internship or Equivalent))



Library and Information Science, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: School of Information

Contact Information: <http://www.grad.usf.edu/majors>

The M.A. in Library and Information Science (LIS) is designed to prepare students for careers and leadership roles in library and information professions that serve the needs of a culturally diverse, technological society. The program is fully online, and offers student a flexible curriculum for them to meet their professional goals. Graduates of USF's LIS program work in libraries, businesses, and various information agencies across the state, nationally, and internationally.

Accreditation

The M.A. in Library and Information has been continually accredited by the American Library Association (ALA) since 1974, with the most recent review for continued accreditation occurring in 2016. Completion of the degree provides the professional credential commonly required for employment in many libraries and other information agencies. For those interested in becoming School Library Media Specialists, the degree offers coursework that will prepare students to pass the examination for certification required by the State of Florida. For more information, <http://si.usf.edu/ma/library-program/>

Major Research Areas

Information Storage and Retrieval
Metadata
Public Librarianship
Academic Librarianship
School Media Specialist
Archives and Records Management
Visualization of Information
Information Technology
Human Information Behavior
Information Policy
Information Literacy

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE is required with preferred minimum scores of 73rd percentile (156V), 10th percentile (141Q). However, the LIS program will waive the GRE requirement if the student meets one of the following criteria:
 - A 3.50 or higher GPA in a completed master's degree program from an accredited institution
 - A 3.25 or higher GPA in upper division undergraduate work from an accredited institution.
 - Doctoral degree (including professional degrees such as the JD and MD) from an accredited institution.
- All students not meeting one of the above criteria will be considered for conditional admission based on all of the following criteria:
 - GRE - preferred minimum score of 156 (73rd percentile) Verbal; 141 (10th percentile) Quantitative



- An academic writing sample
- Three written letters of recommendation
- Resume
- Statement of Purpose

Conditional admission status will be converted to regular status upon completion of the first three LIS courses with a GPA of 3.50 or above. LIS 5020 must be included as one of these courses.

Curriculum Requirements

Total Minimum Hours - 39 credit hours minimum

- **Core courses – 18 credit hours**
- **Technology Elective – 3 credit hours**
- **Electives – 18 credit hours**
- **Comp Exam/Portfolio**

Students must maintain a 3.00 grade point average of "B" or better and no more than two grades below "B" will be accepted. Transfer credit from other recognized graduate schools is limited to six semester hours taken within the last five years with grades of "B" or better. All transfers must be approved by the candidate's faculty advisor. Transfer credits must be posted to a student's permanent record no later than one full term prior to graduation.

Core Requirements (18 Credit Hours)

- LIS 5020 Foundations of Library and Information Science **Credit Hours: 3**
- LIS 6603 Basic Information Sources and Services **Credit Hours: 3**
- LIS 6271 Research Methods in Library and Information Science **Credit Hours: 3**
- LIS 6409 Introduction to Library Administration **Credit Hours: 3**
- LIS 6511 Collection Development and Maintenance **Credit Hours: 3**
- LIS 6711 Organization of Knowledge I **Credit Hours: 3**

Technology Elective (3 Credit Hours)

Students must determine with their faculty advisor a suitable technology elective that best meets the requirement and takes into account a student's existing understanding and competencies of theory, application, and use of technology. For many students, the following course will count toward the IT Elective:

- LIS 5268 Microcomputer Applications Library and Information Centers **Credit Hours: 3**

Electives (18 Credit Hours)

Eighteen (18) credit hours approved in coordination with the student's advisor.

Courses Outside the School

Degree-seeking students are permitted to enroll in courses, usually limited to six semester hours, outside the School of Information when, in the context of the development of a purposeful program, an interdisciplinary approach seems appropriate. Students must obtain the prior approval of their Faculty advisor.

Comprehensive Exam (Portfolio)



Assessment of Competencies for the Master's Degree in Library and Information Science - In lieu of a Comprehensive Examination, students are required to submit a portfolio in accordance with program provided guidelines which exhibit competencies acquired during their master's program based on standards of the American Library Association.

Portfolio timeline: Students will begin creating and collecting artifacts and other examples of work beginning in their first semester of study. Portfolios must be reviewed by an advisor or other major designee midway through the student's major and then submitted prior to graduation according to the major guidelines for final approval as part of graduation requirements.



School of Interdisciplinary Global Studies

Major



Latin American, Caribbean, and Latino Studies, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: School of Interdisciplinary Global Studies

Contact Information: <http://www.grad.usf.edu/majors>

The mission of ISLAC is to promote research and study in and about Latin America and the Caribbean. ISLAC is an academic unit devoted to interdisciplinary research and teaching focused on economic, social, political and cultural formations in Latin America and the Caribbean and among the Hispanic/Latino populations in North America.

The Institute fosters greater knowledge of Latin America and the Caribbean and Latino issues, through partnerships with community organizations and other USF departments to sponsor lectures and cultural events that are open to the public throughout the year. We also support graduate students and faculty research in the area, and provide opportunities for Latin Americanist scholars at USF to collaborate and disseminate their work.

Faculty Interests Include:

ISLAC's affiliate faculty members are drawn from the social sciences, humanities, arts, and human service fields. We include faculty from the following departments: History, Spanish-American and Caribbean Languages and Literature, Humanities, Anthropology, Political Science, Sociology, Economics, Business, Geography, Public Administration, Fine Arts, Public Health, Education, Africana Studies, Women's and Gender Studies and Mental Health.

Research Areas:

Includes, but is not limited to: Afro-descendants in Latin America and the Caribbean, transatlantic studies, human rights, citizenship, race and ethnicity, education and public health migration and Diaspora.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- three letters of recommendation
- statement of purpose
- resume
- GRE not required, but suggested for full financial consideration

Curriculum Requirements

Total Minimum Hours: 36 Credit Hours

- **Core – 6 Credit Hours**
- **Methods - 3 Credit Hours**
- **Specialization – 12 Credit Hours**
- **Electives – 9 Credit Hours**
- **Thesis/Non-Thesis – 6 Credit Hours**



Core Requirements (6 Credit Hours)

- LAS 6220 Issues and Perspectives in Latin American Studies **Credit Hours: 3**
- AFA 6120 Social Theory and Social Thought **Credit Hours: 3**

Methods Requirement (3 Credit Hours)

Eligible courses include, but are not limited to:

- AMS 6156 Theories and Methods of Cultural Studies **Credit Hours: 3**
- ANG 5486 Quantitative Methods in Anthropology **Credit Hours: 3**
- COM 6306 Action Research **Credit Hours: 3**
- HUM 6801 Theories and Methods of Cultural Studies **Credit Hours: 3**
- LIN 6748 Contrastive Analysis **Credit Hours: 3**
- LIN 7885 Discourse Analysis **Credit Hours: 3**
- POS 6707 Qualitative Analysis **Credit Hours: 3**
- POS 6746 Quantitative Analysis I **Credit Hours: 3**
- SPC 6214 Ethnography of Communication **Credit Hours: 3**
- SYA 6305 Methods of Research **Credit Hours: 3**
- SYA 6315 Qualitative Research Methods **Credit Hours: 3**
- SYA 6316 Ethnography **Credit Hours: 3**
- SYA 6405 Sociological Statistics **Credit Hours: 3**

Major and Minor Fields

With the concurrence of the ISLAC advisor, students will select major and minor fields during their first semester. These fields will draw heavily on participating departments (e.g. Anthropology, History, Government and International Affairs, Art History). At that time the student will constitute a supervisory committee, made up of two professors from the major field and one from the minor field.

Specialization (12 Credit Hours)

Students complete 12 hours of courses in their specialization. Courses may be taken from participating Departments, such as Anthropology, Government and International Affairs, Sociology, Mass Communication, Geography, Social Work, Women's and Gender Studies, Global Health, Philosophy, Economics, History, World Languages, Humanities and American Studies, Art History, Africana Studies and Education. Students may also request to have courses from other departments count toward major or minor fields.

Eligible courses include, but are not limited to:

- LAS 6936 Seminar in Latin American Studies I **Credit Hours: 3**

Electives (9 Credit Hours)

Students can take three electives from outside the major field. Elective courses must be approved by the Graduate Director and must have 50% of the course content focus on Latin America, the Caribbean, or Latinos. Eligible courses include, but are not limited to those listed under specialization.

- AFA 6932 Topics in Africana Studies **Credit Hours: 3**
- AMS 6156 Theories and Methods of Cultural Studies **Credit Hours: 3**
- ANG 6701 Contemporary Applied Anthropology **Credit Hours: 3**
- EDF 6883 Issues in Multicultural Education **Credit Hours: 3**



- HIS 6939 Seminar in History **Credit Hours: 3**
- HUM 6801 Theories and Methods of Cultural Studies **Credit Hours: 3**
- INR 6690 Research Seminar in Globalization **Credit Hours: 3**
- PHC 6934 Selected Topics in Public Health **Credit Hours: 1-6**
- POS 6933 Selected Topics in Political Science **Credit Hours: 3**
- SPW 5135 Colonial Spanish American Literature **Credit Hours: 3**
- SPW 6775 Caribbean Literature **Credit Hours: 3**
- SPW 6806 Introduction to Hispanic Graduate Studies **Credit Hours: 3**
- SYA 6933 Special Topics-Sociology **Credit Hours: 3**
- SYD 6605 City and Community **Credit Hours: 3**
- SYO 6255 Seminar in Sociology of Education **Credit Hours: 3**
- WST 6560 Advanced Feminist Theory **Credit Hours: 3**
Or other graduate course approved by the Graduate Director.

To count towards this degree, 50% of the course content must focus on Latin America, the Caribbean, or Latinos.

Thesis/Non Thesis (6 Credit Hours Minimum)

Students select either the thesis or non-thesis option.

Thesis:

- LAS 6971 Thesis in Latin America and Caribbean **Credit Hours: 1-12 (6 credits)**
In their thesis, students must provide new insight into a relevant topic in political science or international studies. As students approach the thesis stage, they need to compose a thesis committee consisting of a major professor, who must be a member of the Department of Government and International Affairs, and two readers. One of the two readers can be from another department, but that person must first be approved by the Graduate Director. The thesis committee must approve proposals before students embark on their thesis. Students must prepare a written thesis and defend their work in a formal oral presentation before their committee.

Non-Thesis:

- TBA **Credit(s): 3** (Elective structured class approved by the Graduate Director)
- LAS 6913 Independent Study and Research in Latin American **Credit Hours: 1-9 (3 Credits Hours)** (Literature Review of approximately 50 pages)

Students who choose a non-thesis option will be required to complete an additional six (6) hours of course work at the 6000 level. The student is required to demonstrate competency by successfully completing a substantial literature review in his or her field of concentration.

Comprehensive Examination

For students in the thesis option, successful completion of the Thesis serves in lieu of the Comprehensive Exam. For students in the non-thesis option, the extensive literature review determines competency and serves as the equivalent of a comprehensive examination.

Foreign Language Requirement



At the time of graduation, students must submit proof of proficiency in Spanish, Portuguese, or another language spoken in Latin America or the Caribbean.



Political Science, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Africana Studies

Contact Information

College: Arts and Sciences

Department: School of Interdisciplinary Global Studies

Contact Information: <http://www.grad.usf.edu/majors>

The graduate major leading to the M.A. in Political Science is designed to offer advanced general instruction in Political Science. It prepares its graduates for positions of responsibility in the public and private sectors, as well as in research, teaching, and study at the doctoral level.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE required
- Three (3) letters of recommendation, preferably from an academic source
- A 500-word statement of academic interest
- Official transcripts
- Must have an undergraduate background in political science.

Curriculum Requirements

Total Minimum Hours: 36 Credit Hours

- **Core Requirements – 6 credit hours**
- **Disciplinary Seminar Requirements - 6 Credit Hours**
- **Research Methods - 3 Credit Hours**
- **Major Field or Concentration - 9 credit hours**
- **Electives – 6 credit hours minimum**
- **Thesis/Non-Thesis – 6 credit hours**

For instructional purposes, the graduate curriculum in Political Science has been divided into four fields:

Field 1 Comparative Politics (courses with a CPO prefix)

Field 2 International Relations (courses with an INR prefix)

Field 3 American Government (courses with a PUP, POS, or URP prefix)

Field 4 Political Theory (courses with a POT prefix)

Core Requirements (6 Credit Hours)



- POS 6735 Foundations of Political Inquiry **Credit Hours: 3**
- AFA 6120 Social Theory and Social Thought **Credit Hours: 3**

Disciplinary Seminar Requirements (6 Credit Hours)

Select two:

- POS 6045 Seminar in American Government & Politics **Credit Hours: 3**
- POT 6007 Seminar in Political Theory **Credit Hours: 3**
- INR 6007 Seminar in International Relations **Credit Hours: 3**
- CPO 6091 Seminar in Comparative Politics **Credit Hours: 3**

Research Methods (3 Credit Hours)

Select one:

- POS 6746 Quantitative Analysis I **Credit Hours: 3**
- POS 6707 Qualitative Analysis **Credit Hours: 3**

Major Field or Concentration (9 Credit Hours Minimum)

Students may either choose a Major Field of study, or the Concentration in Africana Studies

Major Field - 9 Credit Hours

In addition to the core course in major area, three additional courses in the core area are chosen from American Government, Political Theory, International Relations, or Comparative Politics.

Concentration in Africana Studies -9 Credit Hours

- AFA 6932 Topics in Africana Studies **Credit Hours: 3**
- AFA 6120 Social Theory and Social Thought **Credit Hours: 3**
- AFA 6108 Social Construction of Race and Racism **Credit Hours: 3**

Electives (6 Credit Hours Minimum)

Electives have to be approved by the Graduate Director. Other graduate courses may also be taken as electives, with approval by the Graduate Director.

Electives include, but are not limited to:

- AFA 6207 African American Historiography **Credit Hours: 3**
- AFA 6805 African Historiography **Credit Hours: 3**
- AFA 6355 African American Community Research: Ethnography **Credit Hours: 3**
- AFA 6387 Seminar on Genocide and Human Rights **Credit Hours: 3**
- AFA 6932 Topics in Africana Studies **Credit Hours: 3**
- AFA 6905 Independent Study **Credit Hours: 1-19**
- AFA 6910 Directed Research **Credit Hours: 1-12**



- CPO 5934 Selected Topics in Comparative Politics **Credit Hours: 3**
- POS 6933 Selected Topics in Political Science **Credit Hours: 3**

Thesis/Non Thesis (6 Credit Hours Minimum)

Thesis:

Students must enroll in either POS 6971 or AFA 6971 (Africana Studies Concentration students) Thesis: Master's for a minimum of 6 credit hours. In their thesis, students must provide new insight into a relevant topic in political science or international studies. As students approach the thesis stage, they need to compose a thesis committee consisting of a major professor, who must be a member of the Department of Government and International Affairs, and two readers. One of the two readers can be from another department, but that person must first be approved by the Graduate Director. The thesis committee must approve proposals before students embark on their projects. Students must prepare a written thesis and defend their work in a formal oral presentation before their committee.

- POS 6971 Thesis: Master's **Credit Hours: 2-19 (6 credits for this program)**
- AFA 6971 Thesis **Credit Hours: 2-19 (6 credits for this program)**

Non-Thesis:

Students who choose a non-thesis option will be required to complete an additional six (6) hours of course work at the 6000 level. The student is required to demonstrate competency by successfully completing a substantial literature review of approximately 50 pages in his or her major field, or in the Africana Studies Concentration.

- Elective - Structured course approved by the Graduate Director **Credit(s): 3**

And one of the following:

- POS 6909 Independent Study **Credit Hours: 1-3** (for students in a major field) **(3 credits for this program)**
- AFA 6905 Independent Study **Credit Hours: 1-19** (for students in the Africana Studies Concentration) **(3 credits for this program)**

Comprehensive Examination

For students in the thesis option, successful completion of the Thesis serves in lieu of the Comprehensive Exam. For students in the non-thesis option, the extensive literature review determines competency and serves as the equivalent of a comprehensive examination.

Other Information

Students may take a maximum of 3 credit hours of POS 6909 Independent Study and 3 credit hours of POS 6919 Directed Research



Politics and International Affairs, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: School of Interdisciplinary Global Studies

Contact Information: <http://www.grad.usf.edu/majors>

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below. Students apply for admission directly into the Ph.D. Those who are interested in first earning a Master's in Political Science need to apply to that major separately.

- GRE Required
- 3 letters of recommendation (from academic sources or from those able to judge the applicant's academic abilities)
- a 500 word personal statement expressing reasons for pursuing a Ph.D. in Government at the University of South Florida, and
- a writing sample

A Master's degree in Political Science, Public Administration, International Studies, or a related field will count favorably towards admission, but it is not a requirement for admission.

Curriculum Requirements

Total Minimum hours - 72 credit hours post-bachelor's

- **Core - 6 Credit Hours**
- **Disciplinary Requirements – 9 Credit Hours**
- **Methods – 9 Credit Hours**
- **Primary Fields – 18 Credit Hours total**
- **Electives – 9 Credit Hours**
- **Teacher Training – 3 Credit Hours**
- **Dissertation Proposal/Capstone – 3 Credit Hours**
- **Dissertation – 15 Credit Hours**

Core Requirements (6 Credit Hours)

- POS 6735 Foundations of Political Inquiry **Credit Hours: 3**
- POS 6933 Selected Topics in Political Science **Credit Hours: 3**
Interdisciplinary Professional Seminar (3 Credit Hours) (Proposed POS 6015)

Disciplinary Requirements (9 Credit Hours)



Select three of the following:

- POS 6045 Seminar in American Government & Politics **Credit Hours: 3**
- POT 6007 Seminar in Political Theory **Credit Hours: 3**
- INR 6007 Seminar in International Relations **Credit Hours: 3**
- CPO 6091 Seminar in Comparative Politics **Credit Hours: 3**

Methods Requirements (9 Credit Hours)

- POS 6746 Quantitative Analysis I **Credit Hours: 3**
- POS 6707 Qualitative Analysis **Credit Hours: 3**

Select one of the following:

- POS 6918 Seminar in Quantitative Methods **Credit Hours: 3**
- POS 6942 Field Work in Political Science **Credit Hours: 1-3 (3 credits for this program)**
- AFA 6355 African American Community Research: Ethnography **Credit Hours: 3**
- Or other graduate course approved by the Graduate Director

Primary Fields (2) - (18 Credit Hours)

Students complete two primary fields with nine (9) credit hours each. The options for primarymajor field are International Relations, Comparative Politics, American Government and Political Theory. With graduate committee approval, students will be encouraged to take courses in other disciplines.

Electives (9 Credit Hours)

Students will enhance their major or minor areas of specialization with a elective courses. With graduate committee approval, students will be encouraged to take courses in other disciplines.

Students Teacher Training Requirement (3 Credit Hours)

- POS 6702 Teaching Political Science **Credit Hours: 3**

Foreign Language

All students must demonstrate competency in at least one foreign language. Students must pass the competency exam administrated by the World Language Education Department. Additionally, students, whose research focuses on a particular area of the world, must be proficient in language(s) native to that region.

Comprehensive Exam

Ph.D. students will be required to take in-class examinations in two core fields and a chosen subfield. The examinations will be developed by a standing committee of faculty with expertise in the chosen fields. Field exams will be administered on designated, nonconsecutive days and limited to eight hours for each field of specialization. Four hours will be allotted for the subfield. An ad hoc committee consisting of one member from each appropriate standing committee and a faculty member with expertise in the tested



subfield will conduct an oral exam approximately three weeks after the written exams have been completed. The oral exam will be limited to two hours.

Dissertation Proposal – Capstone (3 Credit Hours)

- POS 6933 Selected Topics in Political Science **Credit Hours: 3**
Capstone Interdisciplinary Seminar (3 Credit Hours)

Students will enroll in POS 6933 Selected Topics in Political Science as their Capstone Interdisciplinary Seminar. During the Seminar, students develop their dissertation proposals. Students must present their dissertation proposal to their dissertation committee and obtain consent from all committee members before proceeding to the dissertation work.

Dissertation (15 Credit Hours)

- POS 7980 Dissertation **Credit Hours: 2-19 (15 credits)**
Students must present their dissertation at an oral defense, and their committees determine whether the student passed. Finally, students must submit written copies of their dissertation with signature of their committee members. All dissertations must conform to University of South Florida format rules.



School of Public Affairs

Major



Public Administration, M.P.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: School of Public Affairs

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources: <https://www.usf.edu/arts-sciences/departments/public-affairs/mpa/index.aspx>

The Public Administration major offers a multi-disciplinary course of study leading to a Master of Public Administration (M.P.A.) degree. This degree is designed primarily to prepare students for successful leadership roles and management careers in the public (i.e., governmental and quasi-governmental organizations), non-profit, and private sectors. Students enrolled in the M.P.A. program pursue careers in local, state, or federal agencies of government, non-profit organizations, and special service districts. Those employed in public management positions may wish to pursue an M.P.A. degree in order to broaden their educational backgrounds to prepare for increased job responsibilities, or to change career paths.

The Public Administration major also offers courses of study leading to a Graduate Certificate in Public Management or a Graduate Certificate in Management of Non-Governmental and Non-Profit Organizations. These options are designed for individuals who wish to acquire knowledge of public and non-profit management theory and practices, but who do not find it necessary or feasible to pursue the M.P.A. degree.

Accreditation:

Accredited by the Network of Schools of Public Policy, Affairs, and Administration (NASPAA).

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Admission decisions to the M.P.A. degree program are based on an overall assessment of the applicant's potential for successfully completing the M.P.A. degree. General admission criteria include scores obtained on the Graduate Record Examination (GRE) and performance as an undergraduate. Specific criteria includes:

- Two letters of recommendation minimum, one from a faculty member familiar with the applicant's academic performance and potential, and the other from a work supervisor or manager.
- Personal statement detailing the applicant's career goals and aspirations, including ways in which the applicant believes the M.P.A. degree can help to facilitate the stated goals.
- Resume or curriculum vitae showing work experience.
- Approval by the M.P.A. Admissions Committee and, if deemed necessary, an admissions interview.
- GRE is required with preferred scores of V 153 (60%), Q 146 (25%), and AW 4.0 (59%). At the discretion of the M.P.A. Director, the GRE may be waived under one of the following conditions:
 - Applicant already possesses a graduate degree from an accredited university;
 - Applicant has a 3.25, or higher, overall undergraduate GPA;
 - Applicant has five years or more of practical, professional experience at a senior level documentation of experience required through letters of recommendation from senior management; or



- Completion of the Graduate Certificate in Public Management or Graduate Certificate in Management of Non-Governmental and Non-Profit Organizations with a GPA of 3.50 or higher.

Curriculum Requirements

Total Minimum Hours: 45 credit hours

- **Core – 27 credit hours**
- **Electives – 15 credit hours**
- **Capstone – 3 credit hours**
- **Internship (if required) – 3 credit hours**

Core Requirements (27 Credit Hours)

Performance in core courses: Students will only be allowed to have a maximum of two "C" letter grades in their core courses. Any student who obtains a third "C" letter grade will be required to retake one of the applicable courses.

- PAD 5700 Research Methods in Public Administration **Credit Hours: 3**
- PAD 6060 Public Administration Theory **Credit Hours: 3**
- PAD 6105 Organization Theory and Leadership **Credit Hours: 3**
- PAD 6227 Public Budgeting **Credit Hours: 3**
- PAD 6275 Political Economy for Public Managers **Credit Hours: 3**
- PAD 6307 Policy Design and Implementation **Credit Hours: 3**
- PAD 6417 Human Resources Management **Credit Hours: 3**
- PAD 6703 Quantitative Analysis in Public Administration **Credit Hours: 3**
- PAD 6710 Public Information Management **Credit Hours: 3**

Elective Requirements (15 Credit Hours)

Each student must take 15 elective credit hours. Students should refer to the M.P.A. website <https://www.usf.edu/arts-sciences/departments/public-affairs/mpa/curriculum.aspx> for courses approved by the department. Students wishing to take courses from outside this list must obtain approval from the M.P.A. Director before registering.

Internship (if required) (3 Credit Hours)

Pre-service students are required to complete a supervised internship in a governmental or nonprofit organization. Internships provide students the opportunity to gain valuable experience in the public sector, thereby enhancing the academic course of study. Credit must be earned while the student is in residence and before the student has completed all coursework requirements. Exceptions to this rule can only be made by the MPA Director and must be made in advance. In-service students, who have appropriate managerial/work experience commensurate with their career goals, may not be required to complete an internship. After consultation with the student, the MPA Director may choose to waive the internship requirement.

- PAD 6946 Internship in Public Administration **Credit Hours: 2-6 (3 credits for this program)**

Comprehensive Exam

In lieu of a comprehensive exam, students must successfully complete the Capstone course as a culminating experience.



Capstone (exit requirement) (3 Credit Hours)

This is the final step before graduation. The course is designed to provide students with the opportunity to apply their knowledge, leadership, communication, and decision-making skills acquired throughout the M.P.A. program. This course is designed to challenge students to demonstrate their capability in synthesizing and integrating conceptual frameworks, and relate these skills to managerial or administrative situations. To be eligible for the Capstone course, students must have already completed all of their core course requirements prior to enrolling in this course. A minimum grade of "B-" must be earned in the Capstone to pass. No other course can substitute this requirement.

- PAD 6056 Practice of Public Management **Credit Hours: 3**



Urban and Regional Planning, M.U.R.P.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Arts and Sciences

Department: School of Public Affairs

Contact Information:

<http://www.grad.usf.edu/majors>

www.spa.usf.edu

The goal of the major is to train students to become planning practitioners capable of working in a variety of public, nonprofit, and private sector environments in a number of different fields. We prepare leaders in the field of urban and regional planning to meet community, national and global needs.

The major recognizes the need for effective planners to possess diverse skills in the planning and management of human settlements. Accordingly, the MURP core coursework includes thematically-related courses in land use planning, research methods, quantitative analysis, planning theory and history, planning policy and politics, community and economic development, and geographic information systems (GIS). Students have the option of enrolling in electives that focus on housing & community development, land use planning, local economic development, GIS, coastal zone management, housing & community development, environmental and natural resources planning, natural hazards and resilience planning, and transportation planning. These areas of specialization build on the strengths of existing faculty in our sister-major in Public Administration, as well as with colleagues and facilities across the university. The major is thus distinct in its flexibility. Graduates of the major will be able to:

1. Engage in policy-related research relevant to urban and regional issues.
2. Assume positions of leadership in public, private and nonprofit organizations engaged in planning, land use, and public policy.
3. Further public discourse on the problems confronting cities and regions.
4. Utilize communications and technical skills to become successful at all levels of the planning profession.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Two letters of recommendation (one from a faculty member if BS/BA, in last 5 years);
- A "letter of intent" explaining your background and interest in Urban and Regional Planning;
- GRE is required with preferred minimum scores of 153 Verbal (59th percentile) and 144 Quantitative (18th percentile.) However, the MURP major will waive the GRE requirement if the student meets at least one of the following criteria:
 - A completed master's degree from an accredited institution.
 - A 3.25 or higher GPA in upper division undergraduate work from an accredited institution.
 - A doctorate (including professional degrees such as the JD and MD) from an accredited institution.
- All Students not meeting one of the above criteria will be considered for conditional admission based on the following criteria:
 - A preferred minimum score of 153 Verbal (61st percentile) and 144 Quantitative (17th percentile) on the GRE.
 - An academic writing sample.
 - Three written letters of recommendation, with at least one from a faculty member familiar with the applicant's academic performance and potential. Should the applicant be unable to provide the letter from a former professor, with the Director's approval, letters from other sources will be accepted.



Conditional admission status will be converted to regular status upon completion of three courses from the MURP core requirements with a GPA of 3.50 or above.

All applicants are required to write a statement describing their purpose and goals in the MURP statements.

Curriculum Requirements

Total Minimum Hours: 48 hours

- **Core – 24 credit hours**
- **Electives – 15 credit hours**
- **Thesis option – 6 credit hours**
- **Internship or Additional Elective – 3 credit hours**

Core Requirement (24 Credit Hours)

Foundational Core Courses

- URP 6058 Community Development Planning **Credit Hours: 3**
- URP 6100 Planning Theory and History **Credit Hours: 3**
- URP 6115 Planning, policy and politics **Credit Hours: 3**
- URP 6316 Land Use Planning **Credit Hours: 3**
- URP 6549 Urban & Metropolitan Economic Development Strategies **Credit Hours: 3**

Analytical Methods Core Courses

- URP 6232 Research Methods for Urban and Research Planning **Credit Hours: 3**
- PAD 6703 Quantitative Analysis in Public Administration **Credit Hours: 3**

Planning Practice & Techniques Core Courses

- GIS 5049 GIS for Non-Majors **Credit Hours: 3**

Electives (15 Credit Hours Minimum)

The elective coursework allows the URP student an opportunity to explore one or more fields of urban & regional planning through approved electives within and outside the School of Public Affairs. Depending on personal interest, students may choose course work in the following areas:

- Land Use and Comprehensive Planning
- Community Development and Engagement
- Economic Development
- Environmental and Natural Resources Planning
- Hazard Mitigation and Resiliency Planning

Comprehensive Exam



This is the default option for the MURP major. All MURP Students are required to take this examination at the end of, or during, the last semester of the major coursework. The examination is waived for students who elect, with the approval of the Graduate Director, to pursue the thesis option. The thesis defense serves in lieu of the exam. (See below for more on the thesis option)

Non-Thesis (6 Credit Hours Minimum)

Non-thesis students take an additional 6 hours of elective credits.

Thesis (6 Credit Hours Minimum)

- URP 6971 Thesis **Credit Hours: 2-19**
Students who request to change from thesis to non-thesis must complete the necessary hours for the non-thesis option.

Internship or Additional Elective (3 Credit Hours)

All MURP students are required to complete at least 180 hours of work in a planning agency to earn the 3 credit hours stipulated as part of the core requirements above. This requirement is waived for students with at least 5 years of relevant planning experience; in lieu of the internship, an additional elective will be completed.

- URP 6940 Internship in Urban and Regional Planning **Credit Hours: 3-6**



Zimmerman School of Advertising and Mass Communications

Major



Advertising, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway.

Contact Information

College: Arts and Sciences

Department: Zimmerman School of Advertising and Mass Communications

Contact Information: <http://www.grad.usf.edu/majors>

The M.S. in Advertising provides in-depth training in extracting, analyzing and utilizing analytics associated with advertising media and how those analytics shape strategy and creative content. It is useful both for mid-career professionals and those seeking entry-level advertising positions.

Major Research Areas: Advertising, Mass Communications, Marketing, Communication, Media

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Appropriate bachelor's degree from an accredited institution (e.g. Mass Communications, Communication, Marketing)
- 153V (60th percentile), 144Q (18th percentile) preferred on the GRE
- a resume
- three letters of recommendation (academic recommendations preferred)
- a strong cover letter of intent
- Students who lack an appropriate background in the selected concentration may be required to take additional courses to meet concentration minimums.

Curriculum Requirements

Total Minimum Hours: 35

- **Core Requirements - 24 Credit Hours**
- **Applied Research - 6 Credit Hours**
- **Marketing Courses - 5 Credit Hours**

Core Requirements (24 Credit Hours)

- MMC 6447 Quantitative Research Methods in Mass Communications **Credit Hours: 3**
- ADV 5825 Advertising Proseminar **Credit Hours: 3**
- ADV 6602 Advanced Advertising Management **Credit Hours: 3**
- ADV 6505 Advertising Research **Credit Hours: 3**
- MMC 6449 Advertising Analytics **Credit Hours: 3**



- ADV 5508 Return on Advertising Investment **Credit Hours: 3**
- ADV 5005 Advertising Planning **Credit Hours: 3**
- ADV 6305 Advertising Media Strategy **Credit Hours: 3**

Applied Research (6 Credit Hours)

- MMC 6950 Applied Research Project **Credit Hours: 1-6 (6 credits for this program)**

Marketing Courses (5 Credit Hours)

- MAR 6815 Marketing Management **Credit Hours: 2**
- MAR 6508 Consumer Behavior Insights **Credit Hours: 3**

Comprehensive Exam

Requires successful completion of an Applied Research Project in lieu of a comprehensive exam.

Non-Thesis

This is a non-thesis major.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Mass Communications, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Media Studies
Strategic Communication Management

Contact Information

College: Arts and Sciences

Department: Zimmerman School of Advertising and Mass Communications

Contact Information: <http://www.grad.usf.edu/majors>

The M.A. in Mass Communications is designed for students who are seeking advanced studies in preparation for professional and academic careers in mass communications. The program offers one degree, the Master of Arts in Mass Communications.

The Media Studies Concentration emphasizes the theoretical principles and research methods of mass communications. The Strategic Communication Management Concentration emphasizes public relations management and social science research.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- 153V (61th percentile), 144Q (17th percentile) preferred on the GRE
- a resume
- three letters of recommendation (academic recommendations preferred)
- a strong letter of intent
- Students who lack an appropriate background in the selected concentration may be required to take additional courses to meet concentration minimums.

Curriculum Requirements

Total Minimum Hours: 39 Credit Hours

- **Core – 12 Credit Hours**
- **Concentration – 21 Credit Hours minimum**
- **Thesis or Applied Research Project – 6 Credit Hours**

Core Requirements (12 Credit Hours)

- MMC 6920 Introductory Mass Communications Seminar **Credit Hours: 3**
- MMC 6400 Mass Communication Theory **Credit Hours: 3**
- MMC 6447 Quantitative Research Methods in Mass Communications **Credit Hours: 3**
- MMC 6448 Qualitative Research Methods in Mass Communications **Credit Hours: 3**



Concentration Requirements (12 Credit Hours)

Students select from the following concentration options:

Media Studies (MCM)

The Media Studies concentration is designed to expose students to a variety of ideas centered on the structure, function, and content of media and its role in society. At least twelve (12) hours are taken in the Zimmerman School of Advertising and Mass Communications.

Students select 12 hours from the following options:

- JOU 6501 Media Management **Credit Hours: 3**
- MMC 6206 Mass Communications Ethics **Credit Hours: 3**
- MMC 6306 International Communications Seminar **Credit Hours: 3**
- MMC 6607 Public Opinion and the Mass Media **Credit Hours: 3**
- MMC 6612 Seminar: Law and the Mass Media **Credit Hours: 3**
- MMC 6936 Selected Topics in Mass Communications **Credit Hours: 3**

The remaining nine (9) Credit hours for the concentration may be taken in graduate-level courses offered in other departments of the University.

Strategic Communication Management (PRS)

The Strategic Communication Management Concentration emphasizes the integration of organizational communication functions such as public relations and advertising into a single communication management function.

Students complete the following 18 Credit Hours:

- PUR 5505 Introduction to Strategic Communication Theory and Practice **Credit Hours: 3**
- PUR 6603 Strategic Communication Campaigns **Credit Hours: 3**
- PUR 6607 Strategic Communication Management **Credit Hours: 3**
- MMC 6415 Strategic Communication Media **Credit Hours: 3**
- MMC 6418 Strategic Message Design **Credit Hours: 3**

The remaining three (3) credit hours for the concentration may be taken in graduate-level courses offered in other departments of the University.

Comprehensive Exam

.In lieu of comprehensive examination, defense of the thesis or the applied research project is used as the culminating assessment.

Thesis or Applied Research Project (6 Credit Hours)

Students complete either a Thesis or Applied Research Project.

- MMC 6971 Thesis: Master's **Credit Hours: 2-3**
- MMC 6950 Applied Research Project **Credit Hours: 1-6**



College of Behavioral and Community Sciences

College of Behavioral and Community Sciences

BC - Programs

University of South Florida
College of Behavioral and Community Sciences
4202 E Fowler Ave MHC 1110
Tampa, FL 33620

Web address: <http://www.bcs.usf.edu>

Email: See departmental listings

Phone: 813-974-4602

Fax: 813-974-4699

College Dean: Julianne Serovich, Ph.D.

Associate Dean: Alicia Mendoza, Ph.D.

Associate Dean of Research: Howard Goldstein, Ph.D.

Mission Statement:

The College of Behavioral and Community Sciences prepares students, scholars, human service providers, policy makers, and other professionals to improve the quality of life, health, and safety of diverse populations and to promote positive change in individuals, groups, communities, organizations and systems. Through multidisciplinary teaching and research, service, and engagement with community partners, the College focuses on the rigorous development, dissemination/implementation, and analysis of innovative solutions to the complex challenges that affect the behavior and well-being of individuals, families, populations, and the communities in which we live.

The College offers eight majors at the master's level and seven majors at the doctoral level. Master's majors are available in Applied Behavior Analysis, Child and Adolescent Behavioral Health, Criminal Justice Administration, Criminology, Cybercrime, Gerontology, Rehabilitation & Mental Health Counseling, Social Work, and Speech-Language Pathology. Doctoral majors are offered in Aging Studies, Audiology, Behavioral and Community Sciences, Communication Sciences & Disorders, Criminology, and Social Work. Concurrent degrees are offered in Social Work/Public Health at the master's level and Audiology/Communication Sciences and Disorders at the doctoral level.

The College is also home to the Louis de la Parte Florida Mental Health Institute whose mission is to improve the lives of individuals with mental, addictive, and developmental disorders. Graduate studies in Behavioral Health are offered in collaboration with the College of Public Health at both the master's and doctoral levels and in collaboration with the College of Education at the doctoral level. The Institute houses a Research Library, a Behavioral Health Research Data Center, and a Survey Research Unit that can support the research theses and dissertations of graduate students.

Interdisciplinary Opportunities

The College of Behavioral and Community Sciences (BCS) works with other colleges in interdisciplinary efforts, such as the jointly offered specialty concentration in Behavioral Health as part of the master's and doctoral programs in the Department of Community and Family Health (DCFH) in the College of Public Health (COPH). For information about this, and other opportunities, contact either BCS or COPH for information.



College Requirements

Thesis Enrollment

Upon successful completion of all M.A./M.S. degree requirements except for thesis, Behavioral & Community Sciences graduate students must enroll in a minimum of two (2) credit hours of Thesis each semester (except Summers) until the completion of the master's degree.

Dissertation Enrollment

Doctoral students who have been admitted to candidacy, are required to accumulate a minimum of six (6) credit hours of Dissertation during each previous 12-month period (previous three 3 terms, e.g., Fall, Spring, Summer) until the degree is granted.



Dean's Office

Major



Behavioral and Community Sciences, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Behavioral & Community Sciences

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. in Behavioral & Community Sciences is an interdisciplinary major focusing on research and policy in the area of behavioral health and community sciences. Behavioral and Community Sciences refers to the development and evaluation of services and interventions that promote resiliency and social well-being for at-risk populations and addresses these issues within the context of community settings.

Major Research Areas: Substance Abuse & Co-Occurring Disorders; Community Based Behavioral Health Systems & Services; Child & Adolescent Behavioral Health; Behavioral Health, Law, and the Justice System; Behavioral Health Disparities; Positive Behavior Intervention & Support.; Disability & Rehabilitation Research & Policy; and Language and Literacy Assessment and Intervention.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

To be given full consideration for financial assistance, students should apply by December 15 for admission for the Fall semester.

- A bachelor's GPA of 3.50 or higher based on a 4.00 grading scale. The completed degree must be in a field related to behavioral and community sciences, e.g., behavioral healthcare, human services, human development, psychology, sociology, anthropology, economics, public health, social work, counseling education, education.
- GRE with a preferred minimum of Verbal - 150 (50th percentile), Quantitative- 147 (30th percentile), and Analytical Writing - 4.0 (50th percentile). Although students who have completed a master's degree are not required to submit GRE scores, all students are encouraged to submit GRE scores because they are considered in applications for fellowship, scholarship, and assistantship opportunities.
- Students who do not meet the minimum criteria may be admitted based on strong records reflected by other aspects of their applications (GPA, Letters of Recommendation, Writing Samples, and prior research experiences).
- Evidence of written/analytical skills which will take two-forms:
 - A writing sample, such as a major paper, thesis, or research paper of which the student is the sole author, and
 - A personal goal statement of 2-3 pages that describes why you want to obtain the Ph.D. in Behavioral & Community Sciences. Applicants are expected to communicate with potential advisors to find a good match for one's research training. The personal statement should cover: how the degree will help you in achieving your professional goals; unique qualities, life experiences, and knowledge related to the field; obstacles overcome to achieve your educational goals thus far; obstacles that may challenge you in pursuing a graduate degree; your research and teaching goals; and the USF professor you would like to work with and why.
- Two formal letters of recommendation from faculty members or other professional personnel who have knowledge of the applicant's academic background, potential for success in graduate school, and/or commitment to a research career.
- Applicants with a master's degree: Transcripts from the master's degree will be evaluated to determine coursework that will be applicable toward the 90 hours of credit required for the doctoral major

Prior to applying for the major, applicants are encouraged to contact faculty with whom they would like to study and discuss the fit between the student's area of research interest and the faculty member's research focus.



Curriculum Requirements

Total Minimum Hours - 90 (Post-Bachelor's)

- Core requirements - 9 credit hours
- Additional required courses - 6 credit hours
- Research/statistics foundation courses - 6 credit hours
- Advanced research courses - 12 credit hours
- Didactic courses in behavioral & community sciences - 18 credit hours
- Specialization courses - 9 credit hours
- Directed research - 18 credit hours
- Dissertation - 12 credit hours

Core Requirements (9 Credit Hours)

- MHS 6742 Community Based Research & Evaluation in Behavioral Sciences **Credit Hours: 3**
- MHS 6409 Evidence Based Practices in Behavioral & Community Sciences **Credit Hours: 3**
- MHS 7707 Interdisciplinary Approaches to Policy and System Change in Behavioral Health **Credit Hours: 3**

Additional Required Courses (6 Credit Hours)

- MHS 7720 Proseminar in Behavioral & Community Sciences **Credit Hours: 1-3** (3 credits for this program)
- EDF 6213 Biological Bases for Learning Behavior **Credit Hours: 3**
OR
- PSB 6056 Physiological Psychology **Credit Hours: 3**

Research/Statistics Foundation Courses (6 Credit Hours)

Such as:

- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**
- MHS 5746 Applied Quantitative Research Methods **Credit Hours: 3**
- GEY 6402 Statistical Methods in Aging Research **Credit Hours: 3**
- EDF 6481 Foundations of Educational Research **Credit Hours: 3**
- MHS 6743 Qualitative Research Foundations **Credit Hours: 3**

Advanced Research Courses (12 Credit Hours)

Students will select four courses from at least two of the following areas. Courses such as those listed across multiple departments will be considered to best fit the student's individualized plan of study.

Advanced Statistics

- MHS 7748 Statistical Applications in Translational Research and Evaluation **Credit Hours: 3**
- GEY 6403 Multivariate Statistical Analysis for Aging Research **Credit Hours: 3**
- PHC 6054 Applications of Advanced Biostatistical Methods in Public Health **Credit Hours: 3**



- PHC 7056 Longitudinal Data Analysis **Credit Hours: 3**
- EDF 7412 Application of Structural Equation Modeling in Education **Credit Hours: 3**
- EDF 7474 Applied Multilevel Modeling in Education **Credit Hours: 3**

Research Design

- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4 (3 credits for this program)**

Program Evaluation

- MHS 7740 Survey Course in Planning, Evaluation and Accountability **Credit Hours: 3**
- PHC 6708 Evaluation and Research Methods in Community Health **Credit Hours: 3**

Qualitative Methods

- PHC 6193 Qualitative Methods in Community Health Research **Credit Hours: 3**
- PHC 6725 Focus Group Research Strategies **Credit Hours: 3**

Measurement

**Pre requisite course EDF 6432 or equivalent*

- MHS 7747 Measurement Issues in Behavioral Health Services Research and Evaluation **Credit Hours: 3**
- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- EDF 7436 Rasch Measurement Models **Credit Hours: 3 ***
- EDF 7439 Foundations of Item Response Theory **Credit Hours: 3 ***

Didactic Courses in Behavioral & Community Sciences (18 Credit Hours)

- MHS 7749 Applications in Dissemination and Implementation Science **Credit Hours: 3**
- MHS 6065 Issues and Trends in Developmental Disabilities **Credit Hours: 3**
- MHS 6066 Systems, Services, and Supports for Children and Adolescents with Developmental Disabilities **Credit Hours: 3**
- MHS 6067 Evidence-based Practices in Behavioral Health for Children and Adolescents with Developmental Disabilities **Credit Hours: 3**
- MHS 6068 Community-Based Behavioral Health Interventions for Culturally Diverse Youth **Credit Hours: 3**
- MHS 6069 Child and Adolescent Behavioral Health **Credit Hours: 3**
- MHS 6072 Epidemiology and Prevention in Children's Mental Health **Credit Hours: 3**
- MHS 6095 Family-Centered Interdisciplinary Practice: SOC **Credit Hours: 3**
- MHS 6410 Intensive Individualize Positive Behavior Support **Credit Hours: 3**
- MHS 6437 Family Perspectives on Behavioral Health Disparities **Credit Hours: 3**
- MHS 6494 Women's Mental Health **Credit Hours: 3**
- MHS 6508 Wraparound Interventions and the System of Care **Credit Hours: 3**
- MHS 6605 Addressing Behavior Challenges in Young Children **Credit Hours: 3**
- MHS 6607 Behavior Consultation and Collaborative Systems Change **Credit Hours: 3**
- MHS 6608 Schoolwide Positive Behavior Support **Credit Hours: 3**
- MHS 6645 Mental Health Informatics **Credit Hours: 3**
- MHS 6706 Child and Adolescent Behavioral Health Policy **Credit Hours: 3**



- MHS 6900 Special Topics in Planning, Evaluation and Accountability **Credit Hours: 1-3 (3 credits for this program)**
- PHC 6035 Comorbidity of Mental and Physical Disorders **Credit Hours: 3**
- MHS 6938 Applied Behavior Analysis in Community Settings **Credit Hours: 1-4 (3 credits for this program)**
- GEY 7404 Ph.D. Seminar in Grant Writing **Credit Hours: 3**
- RCS 5080 Medical Aspects of Disability **Credit Hours: 3**
- RCS 5480 - Selected Topics **Credit(s): 3** (Human Growth & Development)
- RCS 5780 Legal, Ethical, Professional Standards and Issues in Counseling **Credit Hours: 3**
- RCS 5450 Fundamentals of Substance Abuse Counseling **Credit Hours: 3**
- RCS 6440 Social and Cultural Foundations of Counseling **Credit Hours: 3**
- RCS 6930 Seminar in Rehabilitation Counseling **Credit Hours: 1-4 (3 credits for this program)**
- PHC 6401 Homelessness: Implications for Behavioral Healthcare **Credit Hours: 3**
- PHC 6539 Foundations in Adolescent Behavioral Health **Credit Hours: 3**
- PUP 5607 Public Policy and Health Care **Credit Hours: 3**

Specialization Courses (9 Credit Hours)

Students will complete a minimum of nine hours in a specialty area. The specialty area will be developed on an individual basis with each student and the student's faculty advisor. Examples of possible specialties include:

- Child & Adolescent Behavioral Health
- Positive Behavior Intervention & Support
- Substance Abuse & Co-Occurring Disorders
- Community Based Behavioral Health Systems & Services
- Behavioral Health, Law, and the Justice System
- Recovery Oriented Behavioral Health
- Disability & Rehabilitation Studies
- Behavioral Health Disparities

Directed Research (18 Credit Hours)

Following the completion of the first six-hours of directed research, students will complete a research "product" such as a conference presentation, poster session, publication, portions of a grant proposal, literature review or other comparable product to demonstrate their progress in developing research proficiency. Ideally, this product will be associated with their dissertation topic. The remaining 12 hours of Directed Research will be conducted during the second and third year of study and will be conducted with the guidance of the student's major professor with research outcomes specified in the student's plan of study related to their eventual dissertation proposal.

- MHS 6915 Directed Research in Behavioral and Social Sciences **Credit Hours: 1-6**

Qualifying Exam/Doctoral Candidacy

Students will be admitted to doctoral candidacy upon completion of a qualifying exam. The qualifying exam will require completion of a grant proposal suitable for supporting dissertation or early career research (e.g., F31 or R03) and an oral examination.

Dissertation (12 Credit Hours Minimum)

The dissertation will consist of original research designed and supervised by a faculty advisor. The student will select the faculty member who will serve as the major advisor within the first year of study. Each student will have a dissertation committee consisting of the major advisor and three other faculty members from different disciplines to reflect the interdisciplinary approach of the major. The



student will write a dissertation proposal that outlines the completed project and will defend the proposal to obtain committee approval for beginning the dissertation. The dissertation will consist of a series of three articles with an introductory and conclusion chapter. The student will complete a public oral defense of the dissertation and the committee will judge the adequacy of the final document and the oral defense for approval for the Ph.D. degree.

- MHS 7980 Dissertation **Credit Hours: 2-30**

Other Requirements

The Plan of Study must include at least 18 hours of coursework in an area that will fulfill the SACS teaching requirement of 18 hours in the field to ensure eligibility for university positions.

Graduate Certificate



Addictions and Substance Abuse Counseling Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This certificate is primarily designed for graduate students in rehabilitation counseling, mental health counseling, social work, psychology or other human services disciplines or for human services professionals who desire to learn about addictions and substance abuse counseling. The certificate program is an interdisciplinary effort on behalf of the Department of Child and Family Studies in the College of Behavioral & Community Sciences and the Department of Mental Health Law Policy in the Louis de la Parte Florida Mental Health Institute.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also have

- 2 Letters of Recommendation
- Less than 3.0 GPA submit GRE scores w/in 5 yrs

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Fundamentals of Substance Abuse Counseling is a pre-requisite for Professional Skills for Addiction Counselors, Counseling Approaches for Substance Abuses and Practicum (Substance Abuse)

Requirements of this Certificate (15 Credit Hours)

- RCS 5450 Fundamentals of Substance Abuse Counseling **Credit Hours: 3**
- RCS 6459 Professional Skills for Addictions Counselors **Credit Hours: 3**
- RCS 6456 Counseling Approaches for Substance Abusers **Credit Hours: 3**
- RCS 6803 Practicum in Counseling **Credit Hours: 3** (substance Abuse)

Electives



Students will select one elective from the five offered.

- RCS 6930 Seminar in Rehabilitation Counseling **Credit Hours: 1-4 (Obesity & Eating Disorders) (3 credits for this program)**
- RCS 6930 Seminar in Rehabilitation Counseling **Credit(s): 1-4 (Introduction to Mind Body Techniques) (3 credits for this program)**
- RCS 6930 Seminar in Rehabilitation Counseling **Credit(s) 1-4 Principles and Practices of Personal Change (3 credits for this program)**
- RCS 6930 Seminar in Rehabilitation Counseling **Credit(s): 1-4 Spirituality and Counseling (3 credits for this program)**
- Approved elective

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Children's Mental Health Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered online.

Description

USF's Department of Child and Family Studies offers the Graduate Certificate in Children's Mental Health, with an emphasis in Systems of Care. This is an interdisciplinary program delivered through distance learning technologies. It is designed to provide a rigorous, empirically-based education to individuals in the behavioral health services field who wish to work with agencies and systems that serve children and families who have mental health needs. Students will learn to assist children at different developmental stages, within the contexts in which they live. Since background checks are the norm in the behavioral health field, students completing this graduate certificate may be required to submit to a background check before entering the workforce. In addition, courses including an internship may require a background check.

Course Location/Delivery

All courses are offered online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also have:

- a bachelor's degree from an accredited institution in a field related to human services with a minimum 3.0 GPA, or be currently enrolled in a graduate degree program at an accredited institution in a related field.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

Two of the three required courses must be completed before enrollment in the electives.

Requirements

15 credit hours. The student must earn a "B" or better in each course for it to be applied toward the certificate. There are 9 credit hours of required course work and then 6 credit hours of electives.

- MHS 6069 Child and Adolescent Behavioral Health **Credit Hours: 3**
- MHS 6095 Family-Centered Interdisciplinary Practice: SOC **Credit Hours: 3**
- MHS 6900 Special Topics in Planning, Evaluation and Accountability **Credit Hours: 1-3**
Cultural Competency in Children's Mental Health (3 Credit Hours)



Electives (6 Credit Hours)

There are 6 credit hours of elective course work:

- MHS 6645 Mental Health Informatics **Credit Hours: 3**
- MHS 7740 Survey Course in Planning, Evaluation and Accountability **Credit Hours: 3**
- MHS 6097 Financing of Children's Mental Health Services **Credit Hours: 3**
- MHS 6098 Leadership within Systems of Care **Credit Hours: 3**
- MHS 6096 Program Development and Implementation in Children's Mental Health **Credit Hours: 3**
- MHS 6072 Epidemiology and Prevention in Children's Mental Health **Credit Hours: 3**
- MHS 6073 Child and Adolescent Psychopathology and Resilience **Credit Hours: 3**
- MHS 6900 Special Topics in Planning, Evaluation and Accountability **Credit Hours: 1-3**
- MHS 6508 Wraparound Interventions and the System of Care **Credit Hours: 3**
- MHS 6901 Independent Studies in Mental Health Studies **Credit Hours: 1-4**

Time Limit and Average Time to Completion

Per University Policy, all Certificates have a five year time limit; however, the approximate time to complete the Certificate is three years.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.



Clinical Aging Sciences Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The certificate in Clinical Aging Sciences is designed to provide practitioners and allied health professional with advanced knowledge in clinical aging research and practice. This program provides clinically relevant education to persons working with or interested in working with older adults in various settings including long-term care facilities, mental health centers, counseling agencies, hospitals, and other settings concerned with the physical and emotional well-being of older adults. This certificate does not prepare students for clinical licensure, but provides students with courses that enhance their understanding of the biopsychosocial aspect of the aging process.

Course Location/Delivery

The Certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (12 Credit Hours)

- GEY 6613 Physical Change and Aging **Credit Hours: 3**
Select three of the following courses:
 - GEY 5620 Sociological Aspects of Aging **Credit Hours: 3**
 - GEY 6600 Human Development and Aging **Credit Hours: 3**
 - GEY 6230 Principles of Health Care Risk Management and Patient Safety **Credit Hours: 3**
 - GEY 6614 Aging and Mental Disorders **Credit Hours: 3**
 - GEY 6616 Mental Health Assessment and Intervention with Older Adults **Credit Hours: 3**
 - GEY 6617 Gerontological Counseling Theories and Practice **Credit Hours: 3**

Time Limit / Average Time to Completion

24 months is the estimated time to complete the program



Credit Toward Graduate Degree

Course credits earned in the certificate may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Criminal Justice Administration Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered partially online.

The University of South Florida's Department of Criminology offers a Graduate Certificate in Criminal Justice Administration designed to develop and enhance professional practice in the criminal justice community. The Graduate Certificate prepares students for advanced levels of management by enhancing their technical skills, decision-making processes, and analytic capabilities in the contemporary environment of criminal justice practice. The certificate targets students interested in the criminal justice system who have a committed interest in enhancing their professionalism and developing their practitioner and management skills.

The Graduate Certificate focuses on two primary areas. First, the program focuses on contemporary issues in criminal justice management and the challenges facing the criminal justice sector of contemporary government. Second, the program provides enhanced skills in research and their application and utility in problem solving, equipping the student with sophisticated quantitative tools and strategies for using these tools in analyzing and designing solutions to problems.

The Graduate Certificate in Criminal Justice Administration is designed to meet the needs of the working professional and the non-traditional student, and the certificate may be earned in as few as two semesters.

Location/Delivery

This certificate is offered on the Tampa campus and partially online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

In addition to your completed application form, transcripts, resume and letter of interest, you will need to submit the following documents:

- Two letters of recommendation attesting to the applicant's abilities to succeed at the graduate level

Credit Toward Graduate Degree

Courses from the certificate may be applied to the graduate degree.

Time Limit / Average time to Completion

This certificate should be completed within three years.

Pre-Requisites



None

Curriculum Requirements (17 Credit Hours)

Courses may be taken in any order, but the following sequence is recommended:

- CCJ 6936 Current Issues in Law Enforcement **Credit Hours: 3**
- CCJ 6705 Research Methods in Criminology **Credit Hours: 3-4**
- CJE 6029 Advanced Seminar in Law Enforcement **Credit Hours: 3**
- CCJ 6706 Quantitative Analysis in Criminology I **Credit Hours: 4**
- CCJ 6406 Theory, Practice, and Research in Law Enforcement **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Digital Forensics Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The graduate certificate in digital forensics helps you gain the skills you need to investigate computer, cyber, and electronic crimes; to analyze networks that have been attacked or used for illicit purposes; and to properly identify, collect, secure, and present digital evidence.

Topics

- Digital forensics tradecraft
- Techniques and procedure
- Standards of practice
- Legal and ethical principles
- Assuring that digital evidence is accurate, complete, and reliable

Course Location/Delivery

Fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

Although there are no specified course prerequisites, prospective students applying to this program are advised that this is a technology-based training program, focused on collecting security data and digital evidence.

Successful students will have an aptitude for technical training and investigative procedures. Some prior training or background in operating systems concepts, computer architecture, computer hardware and storage media will be helpful.

Curriculum Requirements (15 Credit Hours)

- CJE 6688 Cybercrime and Criminal Justice **Credit Hours: 3**
- CJE 6627 Digital Evidence Recognition and Collection **Credit Hours: 3**
- CJE 6624 Introduction to Digital Evidence **Credit Hours: 3**
- CCJ 6935 Topics in Criminology and Criminal Justice **Credit Hours: 3**



- CJE 6625 Network Forensic Criminal Investigations **Credit Hours: 3**

Time Limit / Average Time to Completion

Five years.

Credit Toward Graduate Degree

Some of the hours from this Certificate may be applicable toward a graduate degree. Contact the department for information.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Gerontology Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

The Certificate includes particular coursework for baccalaureate students who wish to obtain specialized gerontological knowledge about how social, psychological, bio-physiological, and economic forces interact with the aging process.

Location/Delivery

This certificate is offered at USF Tampa and fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Five years.

Pre-Requisites

None

Curriculum Requirements (15 Credit Hours)

Select 6 credits from the list below. Courses with ** are offered fully online.

- GEY 5620 Sociological Aspects of Aging **Credit Hours: 3**
- GEY 5630 Economics and Aging **Credit Hours: 3**
- GEY 6600 Human Development and Aging **Credit Hours: 3**
- GEY 6613 Physical Change and Aging **Credit Hours: 3**

Select 9 credit hours of coursework from the list below. Courses with ** are offered fully online.

- GEY 6450 Gerontological Research and Planning **Credit Hours: 3**
- GEY 6325 Social Policy and Planning for Gerontologists **Credit Hours: 3**
- GEY 6500 Seminar in Principles of Administration **Credit Hours: 3**
- GEY 5642 Perspectives on Death and Dying **Credit Hours: 3**
- GEY 6221 Ethical and Legal Issues in Aging **Credit Hours: 3**
- GEY 6614 Aging and Mental Disorders **Credit Hours: 3**

**

- GEY 6934 Special Topics in Gerontology **Credit Hours: 3**
Topics in Psychopathology and Aging (3 Credit hours)
Program Services and Evaluation**



- GEY 6616 Mental Health Assessment and Intervention with Older Adults **Credit Hours: 3**
- GEY 6321 Gerontological Case Management **Credit Hours: 3**
- GEY 6617 Gerontological Counseling Theories and Practice **Credit Hours: 3**
- GEY 6618 Gerontological Group and Family Counseling **Credit Hours: 3**
- GEY 6940 Field Placement **Credit Hours: 1-6**
- GEY 6941 Field Placement in Mental Health **Credit Hours: 1-6**
- GEY 6362 Geriatric Interdisciplinary Team Training **Credit Hours: 3**
**
- GEY 6626 Health, Ethnicity, and Aging **Credit Hours: 3**
- GEY 6627 Women and Aging **Credit Hours: 3**
**
- GEY 6607 Alzheimer's Disease Management **Credit Hours: 3**
- GEY 6230 Principles of Health Care Risk Management and Patient Safety **Credit Hours: 3**
- GEY 6206 Family Caregiving in Aging and Chronic Illness **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Hospice, Palliative Care, and End of Life Studies Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Location/Delivery

Offered at USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Course credits earned in the certificate may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Two years

Curriculum Requirements (12 Credit Hours)

- GEY 5642 Perspectives on Death and Dying **Credit Hours: 3**

And select three courses from the following:

- GEY 6206 Family Caregiving in Aging and Chronic Illness **Credit Hours: 3**
- GEY 6362 Geriatric Interdisciplinary Team Training **Credit Hours: 3**
- GEY 6643 End of Life Care for Dementia Patients **Credit Hours: 3**
- NGR 6221 Oncology Nursing Concepts **Credit Hours: 3**
- NGR 6691 Counseling for the Terminally Ill **Credit Hours: 3**
- NGR 6931 Selected Topics in Nursing **Credit Hours: 1-6**

Research Seminar in Palliative and Hospice Care (3 Credit Hours)

Other courses may be approved by the Certificate Director



Marriage & Family Therapy Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Graduate Certificate in Marriage and Family Therapy enables professionals in the mental health counseling, rehabilitation counseling, counselor education, social work, psychology, and other human service fields to enhance their knowledge and skills in marriage and family therapy. This is a two-tiered program. The Tier I Certificate is for students enrolled in the Master's Program in Rehabilitation and Mental Health Counseling or other professional counseling programs. The MFT Certificate Program prepares students to meet the curriculum requirements for MFT licensure by the Florida Department of Health Board of Clinical Social Work, Marriage and Family Therapy, and Mental Health Counseling (Chapter 491). This Tier I Certificate is a 15 credit hour program with course content that focuses on systemic approaches to both the theory and practice of Marriage and Family Therapy and includes a supervised practicum course. The supervised practicum course requires 180 hours of face to face time with individuals, couples, and families. Face to face hours from practicum I may be combined with face to face hours from practicum II to complete the required 180 hours. The one stipulation is that you must be receiving supervision from a licensed MFT during practicum I either from your onsite supervisor or practicum instructor. The MFT Certificate Program is administered within the Rehabilitation and Mental Health Counseling Department in the College of Behavioral and Community Sciences. Upon graduation, the Tier I student would be eligible to become registered as both a Mental Health Counselor Intern and as a Marriage and Family Therapy Intern, and therefore, eligible for dual licensure. The Tier II Certificate is a 12 credit hour program for those students who would like to enhance their knowledge and skill base in the area of marriage and family therapy but who are not interested in licensure, currently not in an advanced degree counseling program, or lack the necessary course work that would prepare them to be license eligible. A practicum course is not required in the Tier II program and does not prepare students for licensure. Upon completion of this certificate program, students will have a theoretical understanding of individual, marital, and family systems, and will learn ways to strengthen relationships, prevent problems from arising within the family, and increase the quality of marriage, family life, and other relationships.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

Personal Interview

2 Letters of Recommendation

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Requirements of this Certificate (15 Credit Hours)



Track 1:

- RCS 6930 Seminar in Rehabilitation Counseling **Credit Hours: 1-4**
- RCS 6476 Human Sexuality Counseling **Credit Hours: 3**
- RCS 6930 Seminar in Rehabilitation Counseling **Credit(s): 1-4**
- RCS 6930 Seminar in Rehabilitation Counseling **Credit(s): 1-4**
- RCS 6803 Practicum in Counseling **Credit Hours: 3** (min. 80 hrs w/ add 100 hrs if obtaining MFT License)

Track 2:

- RCS 6930 Seminar in Rehabilitation Counseling **Credit Hours: 1-4**
- RCS 6803 Practicum in Counseling **Credit Hours: 3**

Electives

Track II Only Select 3 crs:

- RCS 6930 Seminar in Rehabilitation Counseling **Credit Hours: 1-4**
- RCS 6930 Seminar in Rehabilitation Counseling **Credit(s): 1-4**
- RCS 6930 Seminar in Rehabilitation Counseling **Credit(s): 1-4**
- RCS 6476 Human Sexuality Counseling **Credit Hours: 3**

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Positive Behavior Support Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This graduate certificate program is designed for educators, school or mental health administrators, school psychologists, social workers, school counselors, and behavioral health staff who want to specialize in an evidence-based approach to resolving challenging behavior and supporting the prosocial behavior of children and youth within schools and early education settings. Participants are required to complete 9 credit hours from the list of core courses and one elective, for a total of 12 credit hours. Core courses teach the behavior skills needed to contribute to the development of intensive, individual behavior support and the collaboration skills necessary to make them an effective member of a positive behavior support team. The third required course allows students to develop knowledge and expertise either in school-wide (K-12) or program-wide (early childhood) Positive Behavior Support (PBS). Students may elect to complete the certificate requirements with the fourth core course or one of the six electives. These courses individualize the certificate to meet students' interests in behavioral health or related fields such as behavior analysis, education, and social work. For more information, visit the PBS Certificate Program website. The PBS Graduate Certificate is a program offered as part of the Florida Center for Inclusive Communities (FCIC), a University Center for Excellence in Developmental Disabilities. Participants in the program are FCIC trainees with access to local and national resources.

Course Location/Delivery

Online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Consult Advisor

Requirements of this Certificate (9 Credit Hours)

- MHS 6410 Intensive Individualize Positive Behavior Support **Credit Hours: 3**
- MHS 6607 Behavior Consultation and Collaborative Systems Change **Credit Hours: 3**

- MHS 6608 Schoolwide Positive Behavior Support **Credit Hours: 3**
or
- MHS 6605 Addressing Behavior Challenges in Young Children **Credit Hours: 3**



Electives

Select 1 or take 4th Core:

- MHS 6645 Mental Health Informatics **Credit Hours: 3**
- PHC 6240
- MHS 6095 Family-Centered Interdisciplinary Practice: SOC **Credit Hours: 3**
- PHC 6543 Foundations in Behavioral Health Systems **Credit Hours: 3**
- MHS 6901 Independent Studies in Mental Health Studies **Credit Hours: 1-4**
- Other relevant approved by cert advisor

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Translational Research in Adolescent Behavioral Health Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This certificate program, funded by the National Institute on Drug Abuse of the National Institute of Health under award number R25DA031103, will provide an innovative education program in translational research, merging the skills and experience of USF academic researchers, local community service providers and national experts. The Department of Child & Family Studies at the USF College of Behavioral & Community Sciences, the Center for Health Equity Research at Northern Arizona University (NAU), the Department of Community & Family Health at the USF College of Public Health, and Community Collaborating Partners that span a range of services relevant to child and adolescent drug abuse and mental health, will work together to provide advanced training in translational research and the implementation of evidence-based practices in the areas of alcohol, drug abuse, and co-occurring disorders. Developed as a research education project, the Institute for Translational Research Education in Adolescent Drug Abuse will provide a team mentoring approach with student researchers and professionals in the field. Paired with local and national experts serving as mentors, students and professionals will work together in developing an applied research study and then presenting the results at the Annual National Research & Policy Conference on Child, Adolescent, & Young Adult Behavioral Health held in Tampa, FL.

Course Location/Delivery

Online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

- M.S. or Enrolled in M.S./Ph.D. in areas of mental health, behavioral health, public health, social work, nursing, or ed, or wk full time in behavioral health community agency
- 2 letters of recommendation

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (15 Credit Hours)

- PHC 6539 Foundations in Adolescent Behavioral Health **Credit Hours: 3** (Spring semester)
- PHC 6728 Translational Research Methods in Adolescent Behavioral Health **Credit Hours: 3** (Summer semester)



- PHC 6946 Service Learning in Adolescent Behavioral Health I **Credit Hours: 2** (Summer semester)
- PHC 6729 Advanced Research Education in Adolescent Behavioral Health **Credit Hours: 3** (Fall semester)
- PHC 6947 Service Learning in Adolescent Behavioral Health II **Credit Hours: 2** (Fall semester)
- PHC 6948 Service Learning in Adolescent Behavioral Health III **Credit Hours: 2** (Spring semester)

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Department of Child and Family Studies

Major



Applied Behavior Analysis, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered online.

This major shares core requirements with the M.S. in Applied Behavior Analysis.

Contact Information

College: Behavioral & Community Sciences

Department: Child and Family Studies

Contact Information: <http://www.grad.usf.edu/majors>

The online master's degree in Applied Behavior Analysis (ABA) is designed to meet growing needs in Florida and nationally for practitioners who can work effectively in the fields of developmental disabilities, autism, education, child protective services, child behavior disorders, rehabilitation, mental health, and business and technology. ABA provides an approach for developing, implementing, and evaluating practical strategies to produce changes in socially significant behaviors of individuals in the context of community settings. Three important features characterize the scientific basis upon which ABA is built: a) it focuses upon objectively measurable behavior of individuals; b) it studies environmental influences upon the targeted behaviors; and c) it places a premium upon single-subject research designs to analyze the effects of different environmental variables.

The master's degree in ABA is in the department of Child and Family Studies in the College of Behavioral and Community Sciences is fully online. Students demonstrate knowledge of behavioral principles and procedures in courses that constitute a core curriculum, demonstrate applied behavior analysis skills through supervised practicum experiences, and complete a data based case-study. The major is designed to prepare students to meet the standards to be Board Certified Behavior Analysts (BCBAs). It will prepare them for employment in a variety of fields where there are growing demands for competent professionals with expertise in applied behavior analysis.

Philosophy

The systematic analysis and application of behavioral principles is an extensive repertoire of professional behaviors. In the USF ABA major, these skills are acquired as students move through the sequenced curriculum of coursework and practicum experiences. The curriculum requires application of behavior analytic principles, with direct supervision by faculty and BCBA supervisors. Students participate in practicum training in community agencies under the supervision of BCBAs. In addition to the 10-25 hours of behavior analysis practice they complete in their practicum sites each week, students also participate in practicum seminars each semester. In these seminars, the instructor discusses important practice issues and facilitates student discussion of their applied work. The supervision of the students' case study research rests in the hands of the on-site supervisor and designated core faculty member. On-site supervisors and ABA faculty serve as mentors for the students by closely supervising their case study research and their progress through the major. Therefore, as students are mentored by their on-site supervisor and USF professors during the major, a meaningful supervisor-student relationship is essential.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Three letters of reference from professors and/or employers who know the applicant well



- Current resume or curriculum vitae
- One-page narrative describing the applicant's experiences, training, and interest in Applied Behavior Analysis and in the Applied Behavior Analysis Major at USF.
- GRE Scores on the general subtests

Specific Procedures

The primary assumption underlying admission to the major is that every student accepted is capable (a) of successfully completing his or her respective program and (b) of performing competently in the field as an Applied Behavior Analyst. Applicants are selected based on their potential to benefit from the major and their potential to contribute both to the Major and the field of Applied Behavior Analysis.

Within the admissions process, a culturally diverse student body is actively recruited, and applicants of academic and professional promise are not systematically excluded on the basis of race, ethnic origin, gender, age, religion, lifestyle, sexual orientation, or physical handicap. The admissions process is selective, but flexible--all pertinent data submitted for consideration will be evaluated as an entire package. The evaluation process, however, does involve both academic and interpersonal considerations. The profession of Applied Behavior Analysis requires that the practitioner possess personal characteristics as well as academic and technical competencies, and the admissions process attempts to evaluate both these areas.

Admission to the major is based on

- past academic work in Applied Behavior Analysis or related field,
- a CV outlining relevant work,
- volunteer, and extracurricular experience in applied behavior analysis;
- letters of recommendation; and
- a statement of ABA interests, and professional goals.

Students may apply, after conferral or anticipated conferral of their Bachelor's degree. Applications should be submitted by the posted deadline to be considered for application in the following fall term. Late applications will be considered if space in the major is available.

For admission to the major, the student must secure a practicum site and a practicum supervisor approved by the Graduate Director. The practicum supervisor must sign a Memorandum of Agreement agreeing to supervise the student in accordance with the expectations of the Major.

A decision about each applicant's candidacy is made by the Graduate Director based on the strength of the applicant's record and his/her:

- Academic record and experiences as an undergraduate
- Career goals and their compatibility with those of the Major
- Potential for successful completion of the Major
- Sensitivity to the needs of potential client populations
- Interpersonal skills
- Communication skills, both oral and written

NOTE: The Graduate Director reserves the right to contact all references identified by the candidate.

Curriculum Requirements

Total Minimum Hours - 41 hours

- **Shared Core Requirements – 18 credit hours**
- **Additional Required Courses - 6 credit hours**
- **Practicum – 12 credit hours**
- **Directed Research – 5 credit hours**

This is a cohort model with students completing the Major online. All courses must be earned with a grade of "B-" or better.



Shared Core Requirement (18 Credit Hours)

- MHS 6701 Applied Behavior Analysis Basic Principles **Credit Hours: 3**
- MHS 6937 Behavior Theory **Credit Hours: 3**
- MHS 6615 Observational Methods and Functional Assessment **Credit Hours: 3**
- MHS 6780 Ethics in Applied Behavior Analysis **Credit Hours: 3**
- MHS 6201 Applied Behavior Analysis in Complex Community Environments **Credit Hours: 3**
- MHS 6744 Single Case Experimental Design **Credit Hours: 3**

Additional Required Courses (6 Credit Hours)

- MHS 6900 Special Topics in Planning, Evaluation and Accountability **Credit Hours: 1-3**
Taken as:
- MHS 6710 Behavior Analysis and Developmental Disabilities **Credit Hours 3** (proposed as MHS 6710)
- Supervision and Training in Applied Behavior Analysis **Credit Hours 3**

Practicum Seminar (12 Credit Hours)

- MHS 6940 Practicum in Behavior Analysis in Community Settings **Credit Hours: 2-4 (3 credits for this program)**

Directed Research (5 Credit Hours)

- MHS 6915 Directed Research in Behavioral and Social Sciences **Credit Hours: 1-6 (1-3 credits in this program)**

Comprehensive Exam

A comprehensive literature review in a selected area of research will serve as the comprehensive exam.



Applied Behavior Analysis, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the M.A. in Applied Behavior Analysis.

Contact Information

College: Behavioral & Community Sciences

Department: Child and Family Studies

Contact Information: <http://www.grad.usf.edu/majors>

The master's degree in applied behavior analysis (ABA) is designed to meet growing needs in Florida and nationally for practitioners who can work effectively in the fields of developmental disabilities, autism, education, child protective services, child behavior disorders, rehabilitation, mental health, and business and technology. ABA provides an approach for developing, implementing, and evaluating practical strategies to produce changes in socially significant behaviors of individuals in the context of community settings. Three important features characterize the scientific basis upon which ABA is built: a) it focuses upon objectively measurable behavior of individuals; b) it studies environmental influences upon the targeted behaviors; and c) it places a premium upon single-subject research designs to analyze the effects of different environmental variables.

The master's degree in ABA is in the department of Child and Family Studies in the College of Behavioral and Community Sciences. Students demonstrate knowledge of behavioral principles and procedures in courses that constitute a core curriculum, demonstrate applied behavior analysis skills through supervised practicum experiences, and complete a data based thesis. The major is designed to prepare students to meet the standards to be Board Certified Behavior Analysts (BCBAs). It will prepare them for employment in a variety of fields where there are growing demands for competent professionals with expertise in applied behavior analysis.

Philosophy

The systematic analysis and application of behavioral principles is an extensive repertoire of professional behaviors. In the USF ABA major, these skills are acquired as students move through the sequenced curriculum of coursework and practicum experiences. The curriculum requires application of behavior analytic principles, with direct supervision by faculty and BCBA supervisors. Students participate in practicum training in community agencies under the supervision of BCBAs. In addition to the 10-25 hours of behavior analysis practice they complete in their practicum sites each week, students also participate in practicum seminars each semester. In these seminars, the Practicum Coordinator discusses important practice issues and facilitates student discussion of their applied work. The supervision of the students' research theses rests in the hands of designated core faculty members (i.e., "major professors"). Major Professors serve as mentors for the students by closely supervising their research and their progress through the major. Therefore, as students are mentored by their major professors during the major, a meaningful major professor-student relationship is essential.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Three letters of reference from professors and/or employers who know the applicant well
- Current resume or curriculum vitae
- One-page narrative describing the applicant's experiences, training, and interest in Applied Behavior Analysis and in the Master's in Applied Behavior Analysis at USF.
- GRE Scores on the general subtests

Specific Procedures



The primary assumption underlying admission to the major is that every student accepted is capable (a) of successfully completing his or her respective program and (b) of performing competently in the field as an Applied Behavior Analyst. Applicants are selected based on their potential to benefit from the major and their potential to contribute both to the Major and the field of Applied Behavior Analysis.

Within the admissions process, a culturally diverse student body is actively recruited, and applicants of academic and professional promise are not systematically excluded on the basis of race, ethnic origin, gender, age, religion, lifestyle, sexual orientation, or physical handicap. The admissions process is selective, but flexible--all pertinent data submitted for consideration will be evaluated as an entire package. The evaluation process, however, does involve both academic and interpersonal considerations. The profession of Applied Behavior Analysis requires that the practitioner possess personal characteristics as well as academic and technical competencies, and the admissions process attempts to evaluate both these areas.

Admission to the major is based on

- past academic work in Applied Behavior Analysis or related field,
- a CV outlining relevant work, volunteer, and extracurricular experience in applied behavior analysis;
- letters of recommendation; and
- a statement of ABA interests, and professional goals.

Students may apply, after conferral or anticipated conferral of their Bachelor's degree. Applications should be submitted by the posted deadline to be considered for application in the following fall term. Late applications will be considered if space in the major is available.

For further Admissions Information, please visit Graduate Admissions.

A decision about each applicant's candidacy is made by the Graduate Director based on the strength of the applicant's record and his/her:

- Academic record and experiences as an undergraduate
- Career goals and their compatibility with those of the Major
- Potential for successful completion of the Major
- Sensitivity to the needs of potential client populations
- Interpersonal skills
- Communication skills, both oral and written

NOTE: The Graduate Director reserves the right to contact all references identified by the candidate.

Curriculum Requirements

Total Minimum Hours - 45 hours

- **Shared Core Requirements – 18 Credit Hours**
- **Additional Required Courses - 9 Credit Hours**
- **Thesis – 10 Credit Hours**
- **Practicum – 8 Credit Hours**

This is a cohort model with students completing Major in a face-to-face format on-campus. All courses must be earned with a grade of "B-" or better.

Shared Core Requirements (18 Credit Hours)

- MHS 6701 Applied Behavior Analysis Basic Principles **Credit Hours: 3**
- MHS 6937 Behavior Theory **Credit Hours: 3**
- MHS 6615 Observational Methods and Functional Assessment **Credit Hours: 3**
- MHS 6780 Ethics in Applied Behavior Analysis **Credit Hours: 3**
- MHS 6201 Applied Behavior Analysis in Complex Community Environments **Credit Hours: 3**



- MHS 6744 Single Case Experimental Design **Credit Hours: 3**

Additional Required Course (9 Credit Hours)

- MHS 6900 Special Topics in Planning, Evaluation and Accountability **Credit Hours: 1-3**
Taken as:
- *Behavior Analysis and Developmental Disabilities (3 Credit hours) (Proposed as MHS 670)*
- *Supervision and Training in ABA (3 Credit Hours) (Proposed as MHC 6xxx)*
- MHS 6708 Experimental Analysis of Behavior 1 **Credit Hours: 3**

Comprehensive Exam

The student's thesis proposal will constitute the comprehensive exam.

Practicum (8 Credit Hours)

- MHS 6940 Practicum in Behavior Analysis in Community Settings **Credit Hours: 2-4**

Thesis (10 Credit Hours Minimum)

(Offered face-to-face)

- MHS 6971 Thesis in Applied Behavior Analysis **Credit Hours: 2-6**



Applied Behavior Analysis, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Behavioral & Community Sciences

Department: Child and Family Studies

Contact Information: <http://www.grad.usf.edu/majors>

Applied Behavior Analysis (ABA) is widely regarded as the most research-based intervention for individuals with autism. ABA is an applied science and a profession that provides services to meet the diverse needs of individuals. The emphasis of the ABA doctoral major is on the development of behavior analysts who are scientist-practitioners. Students graduating from the major will receive training through coursework and research and practice activities with community partners.

Major Research Areas:

ABA, Applied Behavior Analysis, autism, behavior, behavior analysis, behavior management, behavioral intervention, children, developmental disabilities, experimental analysis of behavior, functional assessment, and positive behavior support.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Master's degree in behavior analysis or related field with strong behavior analysis content
- Minimum 3.50 GPA in a master's major
- GRE required, preferred scores of:
 - Verbal – 40 percentile or above
 - Quantitative – 40 percentile or above
 - Analytical – 40 percentile or above
- Research experiences and expertise
- Three strong letters of recommendation
- Campus visit and interview with ABA faculty members
- Personal statement describing experience and accomplishments in ABA, future goals, and reasons for applying
- CV

Students entering the doctoral major with their master's degree are expected to have completed:

- 18 credit hours of didactic coursework in behavior analysis in the following areas: Basic behavioral principles (3 credits), research methods (3 credits), conceptual foundations (3 credits), applied behavior analysis (6 credits), and ethics (3 credits)
- An accepted master's thesis, and
- 10 hours of practicum seminar.

Students lacking in any of these prerequisites will be required to take classes in the doctoral major to cover the missing prerequisites.

Curriculum Requirements

Total Minimum Hours - 54 Credit Hours (Post-Master's)



- **Core - 21 Credit Hours**
- **Independent Research - 15 Credit hours**
- **Dissertation - 18 Credit Hours Minimum**

Core Requirements (21 Credit Hours)

- MHS 6708 Experimental Analysis of Behavior 1 **Credit Hours: 3**
- MHS 6709 Experimental Analysis of Behavior 2 **Credit Hours: 3**
- MHS 7748 Statistical Applications in Translational Research and Evaluation **Credit Hours: 3**
- MHS 7926 College Teaching Seminar **Credit Hours: 3**
- MHS 7927 Grant Writing Seminar **Credit Hours: 3**
- MHS 7796 Conceptual Foundations of Behavior Analysis **Credit Hours: 3**
- MHS 7205 Functional Analysis and Function-Based Intervention **Credit Hours: 3**

Independent Research (15 Credit Hours)

15 credit hours of independent research are required.

Qualifying Exam

- Successful completion of two literature review papers (approved by the student's advisor and the graduate director)
- Passing score on the Behavior Analyst Certification Board Certification Exam (Students who do not pass the exam may take the exam a second time)

Dissertation (18 Credit Hours)

The dissertation will consist of original research designed and conducted by the student under the supervision of a faculty adviser. The student will assemble a dissertation committee consisting of the adviser and three other faculty members (see Office of Graduate Studies policy on Doctoral Committees for more details).

- MHS 7980 Dissertation **Credit Hours: 2-30**



Child and Adolescent Behavioral Health, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Behavioral and Community Sciences

Department: Child and Family Studies

Contact Information: <http://www.grad.usf.edu/majors>

The M.S. in Child and Adolescent Behavioral Health is offered by the Department of Child and Family Studies, College of Behavioral and Community Sciences. This major will prepare students for careers in public and non-profit organizations serving youth and their families. This major will prepare students to serve in roles such as director, supervisor, case manager, evaluator, and consultant within these organizations. Students have the opportunity to focus their coursework on individual areas of interest, including leadership, developmental disabilities, research and evaluation, and youth and behavioral health.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE Preferred
- Official transcripts
- Three Letters of recommendation from academic, professional, and/or volunteer supervisors, preferably at least one letter from an academic faculty member
- One page statement of goals/career objectives. This should include why you are applying to this particular program, how you believe the program can help you achieve your goals, and any relevant experience in child & adolescent behavioral health.
- A Resume/CV outlining academic, professional, and/or volunteer work/experience
- Writing sample submitted in Essay portion of the online application. This can be from previous coursework or something written in a professional setting.
- Complete a background check prior to Field Experience placements (if necessary)

Curriculum Requirements

Total Minimum Hours: 39 Credit Hours

- **Core - 12 Credit hours**
- **Other Required Courses - 21 Credit hours**
- **Thesis/Non-Thesis - 6 Credit hours**

Core Requirements (12 Credit Hours)

- MHS 6069 Child and Adolescent Behavioral Health **Credit Hours: 3**
- MHS 6706 Child and Adolescent Behavioral Health Policy **Credit Hours: 3**
- MHS 6027 Creating Cultural Competence in Behavioral Health Organizations **Credit Hours: 3**
- MHS 6732 Research and Evaluation in Child and Adolescent Behavioral Health **Credit Hours: 3**



Other Required Courses (21 Credit Hours)

Other required courses are selected from the list below or from other departments, and must be approved by the student's advisor.

- MHS 6065 Issues and Trends in Developmental Disabilities **Credit Hours: 3**
 - MHS 6066 Systems, Services, and Supports for Children and Adolescents with Developmental Disabilities **Credit Hours: 3**
 - MHS 6067 Evidence-based Practices in Behavioral Health for Children and Adolescents with Developmental Disabilities **Credit Hours: 3**
 - MHS 6095 Family-Centered Interdisciplinary Practice: SOC **Credit Hours: 3**
 - MHS 6096 Program Development and Implementation in Children's Mental Health **Credit Hours: 3**
 - MHS 6097 Financing of Children's Mental Health Services **Credit Hours: 3**
 - MHS 6626 Applied Leadership in Child and Adolescent Behavioral Health **Credit Hours: 3**
 - MHS 6410 Intensive Individualize Positive Behavior Support **Credit Hours: 3**
 - MHS 6900 Special Topics in Planning, Evaluation and Accountability **Credit Hours: 1-3**
Co-Occurring Mental & Substance (3 credit hours)
 - PHC 6546 Epidemiology of Mental Disorders **Credit Hours: 3**
 - MHS 7740 Survey Course in Planning, Evaluation and Accountability **Credit Hours: 3**
 - MHS 7748 Statistical Applications in Translational Research and Evaluation **Credit Hours: 3**
 - PHC 6728 Translational Research Methods in Adolescent Behavioral Health **Credit Hours: 3**
 - PHC 6729 Advanced Research Education in Adolescent Behavioral Health **Credit Hours: 3**
- Or other courses approved by the student's advisor

Comprehensive Examination

All students must pass a written comprehensive examination. Students who do not pass on the first attempt must retake the exam in the semester immediately following the failed attempt. Students who do not pass the re-take exam may petition for a third attempt. Petitions are granted on a case-by-case basis and are dependent upon adequate justification for a requested third attempt. Students who fail the examination three times will be recommended for dismissal from the program.

Thesis/ Non-Thesis Field Experience (6 Credit Hours Minimum)

Students complete six hours in one of the following:

- MHS 6972 Thesis in Child and Adolescent Behavioral Health **Credit Hours: 2-6 (6 credits in this program)**
- MHS 6941 Applied Field Experience Seminar **Credit Hours: 3-6 (6 credits in this program)**



Marriage and Family Therapy, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Behavioral & Community Sciences

Department: Child and Family Studies

Contact Information: <http://www.grad.usf.edu/majors>

The M.S. in Marriage and Family Therapy, is designed for students who are seeking to become licensed as a Marriage and Family Therapist. The program is a 60 credit hour terminal degree. Students will be trained and educated to be competent marriage and family therapists who will help to meet the growing job demand for the state of Florida. The curriculum is based on Florida's state licensure requirements, the American Association for Marriage and Family Therapy (AAMFT) Code of Ethics, Marriage and Family Therapy core competencies, the Association of Marital and Family Therapy Regulatory Boards (AMFTRB) National licensure examination domains, and national accreditation standards from the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE). A thesis option is available for students interested in pursuing a Ph.D. in Marriage and Family Therapy after successfully completing the master's degree. Graduates from the program will be employable in behavioral health agencies, private practice, hospitals, Veteran Affairs (VA), and both residential and outpatient facilities. For a complete description of the Department and its program, visit the department's Web page at: <https://www.usf.edu/cbcs/cfs/academics/mft/>.

Major Research Areas:

Marriage and Family Therapy, MFT, Couples and Family Therapy, Couples Counseling, Systemic Family Therapy, Relational Therapy, Systems Theory

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Three letters of recommendation (at least two need to be academic letters)
- A statement of intent/purpose
- A current resume
- GRE Scores
- Interview with faculty members
- Pre-requisite: a statistics course, 3000 level or above. Course must be completed before the first semester of admissions.

Curriculum Requirements

Total Minimum Hours: 60 Credit Hours

- **Core - 42 Credit Hours**
- **Field Placement - 12 Credit Hours**
- **Thesis or Non-thesis - 6 Credit Hours**

Core Requirements (42 Credit Hours)



- MHS 5020 Foundations of Mental Health Counseling **Credit Hours: 3**
- MHS 6705 Legal and Ethical Issues in Marriage and Family Therapy **Credit Hours: 3**
- MHS 6559 Introduction to Systems Theory **Credit Hours: 3**
- MHS 6430 Dynamics of Family Therapy **Credit Hours: 3**
- MHS 6222 Assessment in Marital and Family Therapy **Credit Hours: 3**
- MHS 6345 Family Therapy Theories and Techniques **Credit Hours: 3**
- MHS 6447 Marital Therapy Theories and Techniques **Credit Hours: 3**
- MHS 6115 Contemporary and Community Issues in Marriage and Family Therapy **Credit Hours: 3**
- RCS 6440 Social and Cultural Foundations of Counseling **Credit Hours: 3**
- RCS 6408 Diagnosis and Treatment of Psychopathology **Credit Hours: 3**
- RCS 6740 Research and Program Evaluation **Credit Hours: 3**
- RCS 6456 Counseling Approaches for Substance Abusers **Credit Hours: 3**
- MHS 5480 Human Growth and Development **Credit Hours: 3**
- RCS 6476 Human Sexuality Counseling **Credit Hours: 3**

Field Placement (12 Credit Hours)

In total, students will complete 500 hours of face-to-face clinical hours with individuals, couples, and families during their field placements. Forty percent (40%) of the hours (200) must be relational. Maximum of 100 hours of group or live reflecting teams can be counted as part of the 500 hours.

- MHS 6947 Marriage and Family Therapy Practicum I-IV **Credit Hours: 3** (taken for a total of 12 Credit Hours)

Comprehensive Exam

Students complete a Capstone experience as part of their MHS 6947 practicum. A theory of change/therapy presentation and paper during final semester in practicum will serve in lieu of a Comprehensive Exam.

Thesis or Non-Thesis (6 Credit Hours minimum)

Non-thesis Option:

Choose two from the following list:

- MHS 6105 Medical Family Therapy and Integrated Healthcare **Credit Hours: 3**
- MHS 6462 Trauma Informed Individual, Family, and Couple Treatment **Credit Hours: 3**
- MHS 6423 Individual and Family Treatment with Children and Adolescents **Credit Hours: 3**
- MHS 6509 Group Counseling Theories and Practices **Credit Hours: 3**

Thesis Option:

- MHS 6974 Marriage and Family Therapy Thesis **Credit Hours: 2-3** (6 hours required for this program)



Rehabilitation and Mental Health Counseling (Post-Bacc), M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Addictions and Substance Abuse Counseling
Marriage and Family Therapy

Contact Information

College: Behavioral & Community Sciences

Department: Child and Family Studies

Contact Information <http://www.grad.usf.edu/majors>

The Department of Child and Family Studies trains counselors to work with physically, mentally, emotionally, and chemically disabled individuals. Training emphasizes psychological, social, medical, and vocational aspects of disability, and also the development and refinement of personal adjustment counseling skills. Graduates with this M.A. are prepared for careers as both rehabilitation specialists and mental health counselors.

The Department offers only the M.A. degree. Most students are admitted after earning a baccalaureate degree in one of the behavioral, social, health-related, or educational disciplines (REH). The Major offers two areas of Concentration that may also lead to a certificate: (1) Addictions and Substance Abuse Counseling; and (2) Marriage and Family Therapy. Each student may elect to pursue a program of specialization in any of these areas. The Addictions and Substance Abuse counseling program is approved by the Certification Board for Addictions Professionals of Florida (CBAPF Approved Provider #179A).

Upon completion of at least 75% of the major, students are eligible to sit for the national examination to become a Certified Rehabilitation Counselor (CRC). Upon graduation, individuals are also eligible to take the examination for the state licensure as a Mental Health Counselor. Upon completion of 1500 hours of post-graduate clinical supervision graduates receive their license as a Mental Health Counselor in the State of Florida. For a complete description of the department and its program, visit the department's Web page at: <https://www.usf.edu/cbcs/cfs/academics/rmhc/>

Accreditation:

The Major is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP) and the Commission on Rehabilitation Education (CORE).

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Three letters of recommendation (one must be from an academic faculty member)
- Online department application (which includes a personal statement of intent)
- GRE
- Interview (on campus)
- Undergraduate statistics or research methods course



Curriculum Requirements

Total Minimum Credit Hours - 60 Credit Hours

- **Core Requirements – 54 Credit Hours**
- **Optional Concentration - 15 Credit Hours**
- **Thesis or Non-Thesis - 6 Credit Hours**

The following 60-hour core curriculum is consistent with national certification standards for rehabilitation counselors and must be taken by all students (post-baccalaureate, thesis, and non-thesis). Students must receive a B (3.00) or better in all core curriculum and elective classes.

Core Requirements (54 Credit Hours)

- MHS 5020 Foundations of Mental Health Counseling **Credit Hours: 3**
- MHS 5480 Human Growth and Development **Credit Hours: 3**
- RCS 5780 Legal, Ethical, Professional Standards and Issues in Counseling **Credit Hours: 3**
- RCS 5035 Rehabilitation Counseling: Concepts and Applications **Credit Hours: 3**
- RCS 5080 Medical Aspects of Disability **Credit Hours: 3**
- RCS 5450 Fundamentals of Substance Abuse Counseling **Credit Hours: 3**
- RCS 6220 Individual Evaluation and Assessment **Credit Hours: 3**
- RCS 6476 Human Sexuality Counseling **Credit Hours: 3**
- RCS 6301 Career and Lifestyle Assessment **Credit Hours: 3**
- RCS 6408 Diagnosis and Treatment of Psychopathology **Credit Hours: 3**
- RCS 6440 Social and Cultural Foundations of Counseling **Credit Hours: 3**
- RCS 6510 Group Theories and Practice **Credit Hours: 3**
- RCS 6407 Counseling Theories and Practice **Credit Hours: 3**
- RCS 6740 Research and Program Evaluation **Credit Hours: 3**
- RCS 6803 Practicum in Counseling **Credit Hours: 3 (6 credits for this program)**
- RCS 6825 Internship **Credit Hours: 3-6 (6 credits for this program)**

Optional Concentration Requirements

Addictions and Substance Abuse Counseling (15 Credit Hours)

- RCS 5450 Fundamentals of Substance Abuse Counseling **Credit Hours: 3**
- RCS 6459 Professional Skills for Addictions Counselors **Credit Hours: 3**
- RCS 6930 Seminar in Rehabilitation Counseling **Credit Hours: 1-4 (3 credits in this program)** (Employee Assistance Programs 3 or approved elective)
- RCS 6803 Practicum in Counseling **Credit Hours: 3** (Substance Abuse)
- RCS 6456 Counseling Approaches for Substance Abusers **Credit Hours: 3**

Marriage and Family Therapy (15 Credit Hours)

- RCS 6476 Human Sexuality Counseling **Credit Hours: 3**
- MHS 6430 Dynamics of Family Therapy **Credit Hours: 3**
- MHS 6447 Marital Therapy Theories and Techniques **Credit Hours: 3**
- MHS 6345 Family Therapy Theories and Techniques **Credit Hours: 3**



- RCS 6803 Practicum in Counseling **Credit Hours: 3**

Comprehensive Examination

In order to graduate from the program students must pass the comprehensive exam. After three failed attempts, students will be recommended to the Office of Graduate Studies for dismissal from the program. The written comprehensive examination assesses the student's understanding of the significant content and process areas of the entire major curriculum.

Non-Thesis (6 Credit Hours)

Students in the non-thesis option complete six credit hours of electives.

Thesis (6 Credit Hours)

All students are initially admitted to the non-thesis program. Admitted students may subsequently apply to the faculty for a thesis program. Students in a thesis program must complete a minimum of 60 hours in the Post-Baccalaureate Program (54-hr) core curriculum including a minimum of six (6) hours of RCS 6971 . An oral defense of the thesis is required.

- RCS 6971 Master's Thesis **Credit Hours: 2-6**



Department of Communication Sciences and Disorders

Major



Audiology, Au.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as Concurrent Degree

Contact Information

College: Behavioral & Community Sciences

Department: Communication Science and Disorders

Contact Information: <http://www.grad.usf.edu/majors>

The Au.D. is a four-year post-baccalaureate professional degree. The primary objective is to produce audiologists who are competent to perform the wide array of diagnostic, remedial, and other services associated with the practice of Audiology and who meet the standards mandated by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

Accreditation:

Accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

Admission Information

Must meet University requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

In addition to the USF Admission Application, applicants to the Au.D. Major are required to complete a CSDCAS application.

- Three 3 letters of recommendation
- A 1-2 page letter of intent
- GRE scores with preferred scores at or above the 33rd percentile on both Verbal and Quantitative sections.
- GRE writing with a preferred score of 4.00 or better
- Demonstration of competency in communication skills as determined by the chairperson or delegate.

Curriculum Requirements

Total Minimum Hours - 120 credit hours

- **Core - 62 credit hours**
- **Practical Experience - 49 credit hours**
- **Doctoral Project - 9 credit hours**

General University requirements for graduate work must be fulfilled and a minimum of 120 hours of regularly scheduled academic course work and clinical practica at the graduate level designed to meet competencies set by the American Speech-Language-Hearing Association. Also required for graduation are the attainment of a "B-" or better in each graduate Audiology course, the attainment of clinical competence determined by a GPA of 3.00 in all clinical practica and academic coursework, satisfactory passage of annual comprehensive didactic and clinical oral examinations, and successful completion of an audiology doctoral project. A student with a bachelor's degree in any field may enter the four-year post-baccalaureate program. However, students who lack undergraduate coursework in Communication Sciences and Disorders may be required to add several courses to their graduate major. A student with a



master's degree and State License in Audiology or the Certificate of Clinical Competence in Audiology (CCC-A) may be admitted into an individualized program of study.

Core Requirement

Audiology Science Core (17 Credit Hours)

- SPA 6392 Profession of Audiology **Credit Hours: 2**
- SPA 5303 Auditory Anatomy and Physiology **Credit Hours: 3**
- SPA 5120 Psychoacoustics **Credit Hours: 3**
- SPA 5132 Audiology Instrumentation **Credit Hours: 3**
- SPA 5153 Quantitative Problem Solving in Speech Pathology and Audiology **Credit Hours: 3**
- SPA 7150 Advanced Speech Science **Credit Hours: 3**

Audiology Practice Core (33 Credit Hours)

- SPA 5512 Audiology Counseling Across the Lifespan **Credit Hours: 3**
- SPA 6311 Medical Audiology **Credit Hours: 3**
- SPA 6340 Principles of Amplification I **Credit Hours: 3**
- SPA 6341 Principles of Amplification II **Credit Hours: 3**
- SPA 6307 Speech Perception and Sensorineural Hearing Loss **Credit Hours: 3**
- SPA 6305 Pediatric Audiology **Credit Hours: 3**
- SPA 6314 Electrophysiology **Credit Hours: 3**
- SPA 6316 Vestibular Evaluation and Treatment **Credit Hours: 3**
- SPA 6320 Aural Rehabilitation Across the Lifespan **Credit Hours: 3**
- SPA 6354 Hearing Conservation **Credit Hours: 3**
- SPA 7346 Cochlear Implants **Credit Hours: 3**

Advanced Study (12 Credit Hours)

- SPA 6393 Audiology Practice Management **Credit Hours: 3**
- SPA 7332 Advanced Electrophysiology **Credit Hours: 3**
- SPA 7330 Advanced Vestibular Evaluation and Treatment **Credit Hours: 3**
- SPA 7331 Advanced Medical Audiology **Credit Hours: 3**

Practical Experience (49 Credit Hours)

- SPA 6535L Audiology Clinical Laboratory I **Credit Hours: 3**
- SPA 6536L Audiology Clinical Laboratory II **Credit Hours: 3**
- SPA 6505 Practicum **Credit Hours: 1-10 (4 credits for this program)** (Clinic I)
- SPA 6505 Practicum **Credit(s): 1-10 (6 credits for this program)** (Clinic II)
- SPA 6505 Practicum **Credit(s): 1-10 (6 credits for this program)** (Clinic III)
- SPA 6508 Advanced Audiology Practicum **Credit Hours: 3-6 (3 credits for this program)** (Clerkship I)
- SPA 6508 Advanced Audiology Practicum **Credit(s): 3-6 (3 credits for this program)** (Clerkship II)
- SPA 6508 Advanced Audiology Practicum **Credit(s): 3-6 (3 credits for this program)** (Clerkship III)
- SPA 6508 Advanced Audiology Practicum **Credit(s): 3-6 (6 credits for this program)** (Externship I)



- SPA 6508 Advanced Audiology Practicum **Credit(s): 3-6 (6 credits for this program)** (Externship II)
- SPA 6508 Advanced Audiology Practicum **Credit(s): 3-6 (6 credits for this program)** (Externship III)

Doctoral Project (9 Credit Hours Minimum)

- SPA 6805 Research Procedures in Communication Sciences and Disorders **Credit Hours: 3**
- SPA 6910 Directed Research **Credit Hours: 1-19 (3 credits for this program)**
- SPA 7834 Audiology Doctoral Project Seminar **Credit Hours: 1 (3 credits for this program)**

Annual Examination

Students in Audiology will be evaluated at the end of each year of coursework. The purpose of these examinations is twofold: 1) Determine eligibility for continuation in academic coursework and practical experiences; and 2) Determine areas of weakness that will require remediation. Individualized remediation programs will be designed, if needed, by the student under the supervision of the Audiology faculty and may include the completion of additional written papers, projects, and/or additional course work.

Audiology Doctoral Project

The goal of the Audiology Doctoral Project (ADP) is to provide an experience in basic or applied research or evidence-based practice. Upon completion of the ADP, students are expected to continue to be critical consumers of research and be able to apply current research findings to their practice of audiology. It is expected that all students will complete the ADP experience before the end of the third year of study. The ADP must be completed and defended prior to graduation.

Concurrent Degree

Also available as a Concurrent Degree



Communication Sciences and Disorders, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Concurrent Degree

Contact Information

College: Behavioral & Community Sciences

Department: Communication Sciences and Disorders

Contact Information: <http://www.grad.usf.edu/majors>

The Department of Communication Sciences and Disorders provides disciplinary and interdisciplinary education to prepare research scientists capable of addressing both theoretical and applied issues in laboratory, clinical, and classroom settings. Academic preparation emphasizes basic and advanced study in the communicative sciences, interdisciplinary study, and extensive research preparation. The program of study is tailored to meet individual interest areas. The overall aim of the doctoral major is to produce graduates who excel in meeting the rigorous demands of an academic/research career.

Major Research Areas:

- **Speech-Language Sciences:** Speech perception and production processes, speech perception by normal hearing listeners and listeners with hearing loss, non-native speech, language development in at-risk populations, linguistic and discourse correlates for reading, writing, and spelling, second language learning and literacy learning, and language variation and multiculturalism;
- **Hearing Sciences and Audiology:** Aural rehabilitation, psychoacoustics, aging, temporal processing, speech perception by impaired listeners, auditory evoked potentials, and otoacoustic emissions;
- **Neurocommunicative Sciences:** Aphasia, cognitive/linguistic processing in normal aging and adults with neurological disorders, cognitive neuroscience.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Three letters of recommendation
- A letter of intent
- 3.50 GPA undergraduate or graduate
- Students with a non-CSD background may be required to take pre-requisite coursework in the basic speech, language, and hearing sciences depending on career plans and desired area of focus.
- GRE with preferred scores at the 33rd percentile for Verbal and, Quantitative subtests, and a 3.50 or better on the Writing subtest, taken within 5 years preceding the application. Students with lower scores may be offered admission on a conditional basis if the letter of intent and letters of recommendation are particularly strong. Note: GRE may be waived. Applicants are encouraged to contact the department for waiver eligibility.

Curriculum Requirements

Total Minimum hours:



72 (post-baccalaureate)

42 (post-master's)

- **Core - 9 credit hours**
- **Research and Tools of Research - 9 credit hours**
- **Advanced Study - 12 credit hours**
- **Foundation - 30 credit hours (post-bacc only)**
- **Dissertation - 12 credit hours**

Completion of the Ph.D. in Communication Sciences and Disorders after the Master's normally requires three years of study; five years after the bachelor's.

Core Requirements (9 credit hours)

- SPA 7802 Critical Analysis of Literature in CSD **Credit Hours: 3**
- SPA 7807 Critical Synthesis of Literature in CSD **Credit Hours: 3**
- SPA 7497 Proseminar in Communication Sciences and Disorders **Credit Hours: 1**

Students will complete two semesters (1 credit per semester) of a professional development seminar. This prepares doctoral students for a successful academic career in communication sciences and disorders. Topics discussed include developing a research agenda, building a curriculum vita, teaching in higher education, balancing career and family, professional networking, and keys to success.

- SPA 6505 Practicum **Credit Hours: 1-10**

Students will complete a one-semester practicum on teaching requirements and practices aimed at preparing them to be graduate assistants or instructors in classes at the University of South Florida or other higher education institutions.

Research and Tools of Research (9 credit hours)

Coursework required for tools of research include any course work required for the student to develop skills in research methodology in their area of specialty. The student's academic advisor, major professor and Doctoral Committee will advise students on the selection of appropriate graduate coursework given the student's area of specialization. For most students, tools of research will consist of research design and/or statistics courses. However, depending on the student's area of specialization, courses such as grant writing, computer programming, instructional design, and many others in a variety of departments may be appropriate.

Advanced Study (12 credit hours)

Coursework required for Advanced Study may take the form of directed research or elective graduate coursework, either within the department or in related departments), directed research, or independent study. The student's academic advisor, major professor and Doctoral Committee will advise students on the selection of the proper mix of directed research, coursework, and other study to support knowledge development in the student's area of specialization. For most students, advanced study will consist primarily of directed research credits with Doctoral Committee members, as they begin directed readings to prepare for the Qualifying Examination.

Foundation (30 credit hours) (post-bacc only)

Bachelor's level students, in consultation with their academic advisor, will design an appropriate curriculum to obtain foundational content and skills in their area of interest that will prepare them for Advanced Study. The credits may take the form of structured coursework, directed research, or independent study. Courses in the Department frequently used to satisfy this requirement are listed below.



Note: Students admitted to the program from a non-CSD background may be required to take pre-requisite coursework at the undergraduate level in the basic speech, language, and hearing sciences, depending on their career plans and desired area of focus:

- SPA 5120 Psychoacoustics **Credit Hours: 3**
- SPA 5132 Audiology Instrumentation **Credit Hours: 3**
- SPA 5153 Quantitative Problem Solving in Speech Pathology and Audiology **Credit Hours: 3**
- SPA 5204 Advanced Clinical Phonology **Credit Hours: 3**
- SPA 5303 Auditory Anatomy and Physiology **Credit Hours: 3**
- SPA 5328 Rehabilitative Audiology for Adults **Credit Hours: 3**
- SPA 5403 Language-Learning in the School-Age Years **Credit Hours: 3**
- SPA 5552 Diagnostic Principles and Practices **Credit Hours: 3**
- SPA 6211 Advanced Vocal Disorders **Credit Hours: 3**
- SPA 6225 Advanced Fluency Disorders **Credit Hours: 3**
- SPA 6232 Neuromotor Communication Disorders **Credit Hours: 3**
- SPA 6245 Craniofacial Communication Disorders **Credit Hours: 3**
- SPA 6305 Pediatric Audiology **Credit Hours: 3**
- SPA 6307 Speech Perception and Sensorineural Hearing Loss **Credit Hours: 3**
- SPA 6311 Medical Audiology **Credit Hours: 3**
- SPA 6314 Electrophysiology **Credit Hours: 3**
- SPA 6316 Vestibular Evaluation and Treatment **Credit Hours: 3**
- SPA 6324 Aural Rehabilitation: Children **Credit Hours: 3**
- SPA 6340 Principles of Amplification I **Credit Hours: 3**
- SPA 6341 Principles of Amplification II **Credit Hours: 3**
- SPA 6354 Hearing Conservation **Credit Hours: 3**
- SPA 6401 Pediatric Language Disorders **Credit Hours: 3**
- SPA 6404 Language Learning Disabilities **Credit Hours: 3**
- SPA 6410 Aphasia and Related Disorders **Credit Hours: 3**
- SPA 6417 Communication + Cognition in Traumatic Brain Injury **Credit Hours: 3**
- SPA 6473 Bilingual Assessment and Intervention **Credit Hours: 3**
- SPA 6559 Augmentative & Alternative Communication **Credit Hours: 3**
- SPA 6564 Seminar in Aging, Cognition, and Communication **Credit Hours: 3**
- SPA 6565 Seminar in Dysphagia **Credit Hours: 3**
- SPA 6805 Research Procedures in Communication Sciences and Disorders **Credit Hours: 3**
- SPA 7330 Advanced Vestibular Evaluation and Treatment **Credit Hours: 3**
- SPA 7331 Advanced Medical Audiology **Credit Hours: 3**
- SPA 7332 Advanced Electrophysiology **Credit Hours: 3**
- SPA 7346 Cochlear Implants **Credit Hours: 3**
- SPA 7931 Seminar in Communication Sciences and Disorders **Credit Hours: 3**

Qualifying Exam

With the supervision of a qualifying exam committee, students must pass a qualifying examination that evaluates the student's specialty knowledge and methodological competence.

Pre-Dissertation Project

A pre-dissertation project is required. This may or may not involve research that is related to the principal research topic of the dissertation. Successful completion of the pre-dissertation project must be approved by the student's academic advisor and major



professor. In some cases, this requirement may be satisfied by a previously completed master's thesis or audiology doctoral research project.

Dissertation (12 credit hours)

- SPA 7980 Dissertation **Credit Hours: 2-19**

Other Requirements

Departmental policy specifies that any student earning a C+ or below in two courses will be recommended for dismissal from the Ph.D. program.

Concurrent Degree

Also available as a Concurrent Degree



Speech-Language Pathology (Post-Bacc), M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered partially online.

Contact Information

College: Behavioral & Community Sciences

Department: Communication Sciences and Disorders

Contact Information: <http://www.grad.usf.edu/majors>

The Department of Communication Sciences and Disorders is devoted to the study of normal and disordered human communication. Courses and clinical practice provide the student with principles, research methods and application of knowledge about the spectrum of verbal and non-verbal communication skills. Diagnosis and remediation of communicative problems dominate the clinical component of this course of study. The Master of Science in Speech Language Pathology is structured to meet the preparation requirements of the American Speech-Language-Hearing Association for the Certificate of Clinical Competence.

Accreditation:

Accredited by the Council of Academic Accreditation of the American Speech-Language-Hearing Association.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- In addition to the USF Admission Application, applicants to the Program are required to complete a CSDCAS application.
- completion of a set of pre-requisite courses, also required for state licensure and national certification in speech-language pathology, these pre-requisite courses include:
 - SPA 3004 - Introduction to Language Development and Disorders
 - SPA 3011 - Introduction to Speech Science
 - SPA 3030 - Introduction to Hearing Sciences
 - SPA 3101 - Anatomy and Physiology of the Speech and Hearing Mechanism
 - SPA 3112 - Applied Phonetics in Communication Disorders
 - SPA 3310 - Introduction to Disorders of Hearing
 - SPA 4104 - Neuroanatomy
- at least a 3.20 average on a 4.00 scale in all work attempted while registered as a upper division student working for a baccalaureate degree,
- GRE with preferred scores of: 52nd percentile (approx. 151) on the verbal portion OR the 52nd percentile (approx. 4) on the writing section AND the 32nd percentile (approx. 148) on the quantitative section, taken within five years preceding application
- three letters of recommendation
- a letter of intent and resume, and
- in accordance with our accreditation board (Council of Academic Programs in CSD) the applicant must possess and demonstrate the following Essential Functions: physical health-motor skills, intellectual skills, communication, sensory abilities, and behavior-social qualities which are necessary to achieve the knowledge and skills standards required for graduation and certification by the American Speech Language and Hearing Association (ASHA) and also enable the student to meet graduate



and professional requirements as required by state and national credentialing agencies. Graduate student clinicians with disabilities are expected to meet the same standards and demonstrate the same essential functions as their non-disabled peers with or without reasonable accommodations. For more information, students with disabilities are encouraged to contact Students with Disabilities Service (SDS) at: <http://www.sds.usf.edu/Students.htm>

Curriculum Requirements

Total Minimum hours - 62 hours

- Core – 29 credit hours
- Practicum – 24 credit hours
- Thesis/non-thesis – 9 credit hours

All speech-language pathology majors must complete the following:

Core Requirements (29 Credit Hours)

- SPA 5204 Advanced Clinical Phonology **Credit Hours: 3**
- SPA 5403 Language-Learning in the School-Age Years **Credit Hours: 3**
- SPA 5552 Diagnostic Principles and Practices **Credit Hours: 3**
- SPA 6211 Advanced Vocal Disorders **Credit Hours: 3**
- SPA 6225 Advanced Fluency Disorders **Credit Hours: 3**
- SPA 6410 Aphasia and Related Disorders **Credit Hours: 3**
- SPA 6559 Augmentative & Alternative Communication **Credit Hours: 3**
- SPA 6571 Ethical Practice Issues in Communication Sciences and Disorders **Credit Hours: 1-2 (2 credits for this program)**
- SPA 6805 Research Procedures in Communication Sciences and Disorders **Credit Hours: 3**
- SPA 6565 Seminar in Dysphagia **Credit Hours: 3**

Practicum (24 Credit Hours)

Also, students will enroll in sufficient graduate clinical practicum (24 credits) to meet a minimum of 400 clock hours to fulfill the requirements of the American Speech-Language-Hearing Association. Of these hours, 25 hours must be in observation and at least 250 clock hours must be in speech-language pathology.

Thesis Option (9 Credit Hours)

The number of practicum hours is adjusted from 24 hours to 21 hours to allow the thesis student to take one elective. This elective will be selected with the assistance of the thesis advisor.

- SPA 6910 Directed Research **Credit Hours: 1-19** (1 hour min)
- SPA 6971 Thesis: Master's **Credit Hours: 2-19** (8 hours min)

Non-Thesis Option

Each student must complete an additional nine (9) hours of coursework selected with the assistance of an advisor from the electives list.

Electives



* required for students who have not had a course in aural rehabilitation at the undergraduate level

- SPA 6232 Neuromotor Communication Disorders **Credit Hours: 3**
- SPA 6324 Aural Rehabilitation: Children **Credit Hours: 3** *
- SPA 6401 Pediatric Language Disorders **Credit Hours: 3**
- SPA 6404 Language Learning Disabilities **Credit Hours: 3**
- SPA 6417 Communication + Cognition in Traumatic Brain Injury **Credit Hours: 3**
- SPA 6473 Bilingual Assessment and Intervention **Credit Hours: 3**
- SPA 6564 Seminar in Aging, Cognition, and Communication **Credit Hours: 3**
- SPA 6910 Directed Research **Credit Hours: 1-19 (credits vary in this program)**

GPA and Comprehensive Exam Requirements

Also required for graduation are the attainment of a 'B-' or better in each graduate Speech-Language Pathology course, the attainment of clinical competence and a GPA of 3.00 in all coursework and clinical practica, and satisfactory passage of a comprehensive examination.

Online Option

For individuals who have a bachelor's degree in speech-language pathology and are currently working in the public school system as a speech-language pathology assistant, or clinician, we offer a part-time online graduate major, which can be completed in 9 semesters. The admission and degree requirements are the same as those listed for the residential program. All academic coursework is offered online. The three electives for the non-thesis option are selected by the major and are designed to meet the unique needs of the clinician practicing in a school setting. The thesis option is not available for this track. Out of the six required clinical practicum (a total of 24 credits), four are completed on the job during the school year, one is completed on the Tampa campus or at a local externship site during the second summer, and the third summer is devoted to accruing clinical hours at a local externship site.



Department of Criminology

Major



Criminal Justice Administration, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Behavioral & Community Sciences

Department: Criminology

Contact Information: <http://www.grad.usf.edu/majors>

The M.A. in Criminal Justice Administration is a specialized and concentrated program of study designed specifically for current or former practitioners within the criminal justice system. Generally it targets individuals who do not anticipate continuing on to the doctoral studies. It is a concentrated weekend, cohort-based major leading to the M.A. in five consecutive semesters. Up to two classes may be offered via the internet. Classes are held on weekends, meet for one day, and run seven weeks back-to-back. The major is modeled after a typical executive MBA program for working professionals. This is a cohort based model. This major concentrates on issues related to the organization and operation of criminal justice agencies and related organizations.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Two letters of recommendation attesting to the applicant's abilities to succeed at the graduate level
- A statement of purpose addressing the motivations to attain a graduate diploma and the intention to apply the diploma to a specific set of purposes

Curriculum Requirements

Total Minimum hours - 33 Credit Hours

- **Core - 24 Credit hours**
- **Additional Required Courses - 9 Credit hours**

Core Requirements (24 Credit Hours)

- CCJ 6406 Theory, Practice, and Research in Law Enforcement **Credit Hours: 3**
- CCJ 6705 Research Methods in Criminology **Credit Hours: 3-4**
- CCJ 6706 Quantitative Analysis in Criminology I **Credit Hours: 4**
- CJE 6025 Policy Organization, Behavior, and Administration **Credit Hours: 3**
- CJE 6029 Advanced Seminar in Law Enforcement **Credit Hours: 3**
- CCJ 6935 Topics in Criminology and Criminal Justice **Credit Hours: 3**
Theoretical Approaches to Criminal Behavior (4 credit hours) (Proposed CCJ 6605)
- CJE 6716 Criminal Justice Graduate Capstone Seminar **Credit Hours: 3**

Additional Required Courses (9 Credit Hours)



Additionally, two courses in public administration at the 6000 level are required.

The department recommends PAD 6041 Ethics and Public Service (3) and PAD 6934 Selected Topics in Public Administration (3) or similar courses in PAD approved by the CJA Program Director in coordination with the Public Administration Program.

- CCJ 6936 Current Issues in Law Enforcement **Credit Hours: 3**

Comprehensive Exam

A student portfolio is used in lieu of a comprehensive exam.



Criminal Justice, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Behavioral & Community Sciences

Department: Criminology

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Arts (M.A.) in Criminal Justice online program develops in qualified students the skills to apply principles, theories, and research in the field of criminal justice to "real world" issues.

Major Research Areas: Criminal justice-related fields

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Two letters of recommendation, addressing issues relating to past academic performance or work experience
- A 1-2 page Statement of Purpose, indicating your reasons for seeking a master's degree in Criminal Justice Administration and the particular areas of criminology or criminal justice that interest you.

Curriculum Requirements

Total Minimum hours - 33 Credit Hours

- **Core - 18 Credit hours**
- **Elective Courses - 15 Credit hours**

Required Core Courses (18 Credit Hours)

- CCJ 6932 Issues in Criminal Justice Administration **Credit Hours: 3**
- CCJ 6705 Research Methods in Criminology **Credit Hours: 3-4**
- CCJ 6118 Introduction to Criminology Theory **Credit Hours: 4**
- CCJ 6706 Quantitative Analysis in Criminology I **Credit Hours: 4**
- CCJ 6935 Topics in Criminology and Criminal Justice **Credit Hours: 3**

Elective Courses (15 Credit Hours)

- CCJ 6406 Theory, Practice, and Research in Law Enforcement **Credit Hours: 3**
- CCJ 6930 Current Issues in Corrections **Credit Hours: 3**
- CJE 6268 Minorities and Crime **Credit Hours: 3**
- DSC 6020 Terrorism and Homeland Security **Credit Hours: 3**



- CCJ 6935 Topics in Criminology and Criminal Justice **Credit Hours: 3**



Criminology, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the M.S. in Cybercrime.

Contact Information

College: Behavioral & Community Sciences

Department: Criminology

Contact Information: <http://www.grad.usf.edu/majors>

The M.A. in Criminology is a two-year major designed to provide the student with an in depth understanding of the major ideas, issues, theories, and research comprising the field of Criminology and Criminal Justice.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Preferred minimum scores of 153V (61st percentile), 144Q (17th percentile) or higher on the Graduate Record Exam (GRE). All applicants must submit GRE scores taken within the preceding five years.
- A statement of purpose detailing: (a) reasons for seeking a MA degree in criminology, (b) research interests, and (c) future career plans.
- A professional or academic writing sample providing evidence of the candidate's academic capabilities.
- Three letters of reference speaking to the applicant's academic capabilities

Curriculum Requirements

Total Minimum Hours - 33 credit hours

- **Shared Core Requirements - 11 Credit Hours**
- **Additional required courses - 7 Credit Hours**
- **Electives – Non-thesis option - 15 Credit Hours**
- **Electives – Thesis option - 9 Credit Hours**
- **Thesis (optional) - 6 Credit Hours**

Shared Core Requirements (11 Credit Hours)

- CCJ 6118 Introduction to Criminology Theory **Credit Hours: 4**
- CCJ 6705 Research Methods in Criminology **Credit Hours: 3-4 (3 credits for this program)**
- CCJ 6706 Quantitative Analysis in Criminology I **Credit Hours: 4**

Additional Required Courses (7 Credit Hours)



- CCJ 6485 Criminal Justice and Public Policy **Credit Hours: 3**
- CCJ 6707 Quantitative Analysis in Criminology II **Credit Hours: 3**
- CCJ 6937 Pro Seminar in Criminology **Credit Hours: 1**

Non-Thesis Option (15 Credit Hours)

Students in the non-thesis option complete 15 elective hours. Options include but are not limited to:

- CCJ 6624 Seminar in Violence **Credit Hours: 3**
- CCJ 6638 Seminar in Nature and Causes of Crime **Credit Hours: 3**
- CCJ 6654 Seminar in Drugs and Crime **Credit Hours: 3**
- CCJ 6669 Seminar in Social Inequality and Crime **Credit Hours: 3**

A maximum of three hours may be directed Independent Study. Up to six graduate hours may be taken in the area outside the Department with approval from the Graduate Director.

Thesis Option (15 Credit Hours)

Students in the thesis option complete 9 elective hours. Options include but are not limited to:

- CCJ 6624 Seminar in Violence **Credit Hours: 3**
- CCJ 6638 Seminar in Nature and Causes of Crime **Credit Hours: 3**
- CCJ 6654 Seminar in Drugs and Crime **Credit Hours: 3**
- CCJ 6669 Seminar in Social Inequality and Crime **Credit Hours: 3**

A maximum of three hours may be directed Independent Study. Up to six graduate hours may be taken in the area outside the Department with approval from the Graduate Director.

- CCJ 6971 Thesis: Master's **Credit Hours: 2-19**
The thesis will consist of research that makes an original contribution to the scholarly literature and may be of either a quantitative or qualitative nature. 6 credit hours of thesis is required.

Comprehensive Exam

For students pursuing the thesis option, an oral defense of a written thesis is required after the final draft of the thesis has been accepted by the candidate's supervisory committee.

For students pursuing the non-thesis option students must pass a comprehensive exam or complete a project. The comprehensive exam is designed to test the students' knowledge of the three core areas of the Master's program; criminological theory, current issues in criminal justice and research methodology. A project is typically a research proposal, but can be other types of research activities including an internship focused on understanding a criminal justice problem along with a literature review on that problem. Approval for the proposed project must be received from the Major Professor and one other Criminology faculty member.



Criminology, Ph.D

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Behavioral & Community Sciences

Department: Criminology

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. is a research degree granted in recognition of high achievement in criminology. This achievement requires accomplishments beyond the completion of coursework that demonstrate the ability to work independently and contribute to criminological knowledge.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A master's degree from an accredited institution and a GPA of at least 3.40 or better (on a 4.00 scale) during graduate study.
- A preferred minimum score of 153 Verbal (61st percentile), 144 Quantitative (17th percentile) or higher on the Graduate Record Exam (GRE). All applicants must submit GRE scores taken within five (5) years of the desired term of entry.
- Three 3 letters of recommendation speaking to the applicant's academic capabilities
- A statement of purpose detailing reasons for seeking a Ph.D. degree in Criminology, future career plans and research interests.
- A sample of written work providing evidence of the applicant's academic capabilities. If an applicant has completed a master's thesis, it should be submitted.

Curriculum Requirements

Total minimum hours: 55 Credit hours post-master's

- **Core Requirements - 22 Credit hours**
- **Additional Required Course - 1 Credit hour**
- **Electives - 9 Credit hours**
- **Advanced Research - 6 Credit hours**
- **Dissertation - 18 Credit hours**

Core Requirements (21 Credit Hours)

* For students who have taken CCJ 6937, CCJ 6485 and/or CCJ 6707 or the equivalent as M.A. students, those credit hours will be substituted with additional departmental electives.

** An introductory research methods course at the graduate level prior is a pre-requisite to taking this course.

† An introductory quantitative analysis at the graduate level prior is a pre-requisite to taking this course.

- CCJ 6485 Criminal Justice and Public Policy **Credit Hours: 3** *
- CCJ 6707 Quantitative Analysis in Criminology II **Credit Hours: 3** * †



- CCJ 6708 Quantitative Analysis in Criminology III **Credit Hours: 3**
- CCJ 7726 Research Methods in Criminology II **Credit Hours: 3** **
- CCJ 7605 Theories of Criminal Behavior I **Credit Hours: 3**
- CCJ 7606 Theories of Criminal Behavior II **Credit Hours: 3**
- CCJ 7065 Professional Development in Criminology **Credit Hours: 2**
- CCJ 7940 Teaching Practicum in Criminology **Credit Hours: 1**

Additional Required Course (1 Credit Hour)

- CCJ 6937 Pro Seminar in Criminology **Credit Hours: 1** *

Electives (9 Credit Hours)

Six graduate credit hours may be taken outside the Department with approval from the Graduate Director. All courses must be USF courses.

Options include but are not limited to:

- CCJ 6638 Seminar in Nature and Causes of Crime **Credit Hours: 3**
- CCJ 6624 Seminar in Violence **Credit Hours: 3**
- CCJ 6669 Seminar in Social Inequality and Crime **Credit Hours: 3**
- CCJ 6654 Seminar in Drugs and Crime **Credit Hours: 3**

Advanced Research (6 Credit Hours)

In addition to successfully completing these requirements, students will qualify for candidacy as described below and write and defend a dissertation prospectus and dissertation.

- CCJ 7910 Advanced Research **Credit Hours: 1-12**

** Variable credit hours from 1-6 credit hours can be taken in a given semester.*

Qualifying Examination

Students must pass two exams and produce an approved publishable manuscript (see Student Handbook for additional information) as determined by a graduate faculty member. The comprehensive exams assess the student's comprehensive knowledge of (a) theories of criminology, (b) research methods and data analysis and the student's (a) innovative, critical and analytical thinking and (b) writing skills.

Dissertation (18 Credit Hours)

Student's must complete 18 credit hours of dissertation hours minimum.

- CCJ 7980 Doctoral Dissertation **Credit Hours: 2-12**



Cybercrime, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the M.A. in Criminology.

Contact Information

College: Behavioral & Community Sciences

Department: Criminology

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Science in Cybercrime is a fully online major designed to provide the student with an in-depth understanding of the major issues in criminology as it relates to cybercrime. Students will master current criminology theory as it relates to the social and behavioral aspects of cybercrime, and learn methodology, tools of inquiry, and investigation into digital forensics and evidence collection.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A statement of purpose detailing reasons for seeking a graduate degree in Cybercrime
- A professional or academic writing sample providing evidence of the candidate's academic capabilities.
- Three letters of reference speaking to the applicant's academic capabilities

Curriculum Requirements

Total Minimum Hours - 30 credit hours

- **Shared Core Requirements - 11 Credit Hours**
- **Required Courses: 16 Credit Hours**
- **Electives: 3 Credit Hours**

Shared Core Requirements (11 Credit Hours)

- CCJ 6118 Introduction to Criminology Theory **Credit Hours: 4**
- CCJ 6705 Research Methods in Criminology **Credit Hours: 3-4 (3 credits for this program)**
- CCJ 6706 Quantitative Analysis in Criminology I **Credit Hours: 4**

Additional Required Courses (15 Credit Hours)

- CJE 6688 Cybercrime and Criminal Justice **Credit Hours: 3**
- CJE 6627 Digital Evidence Recognition and Collection **Credit Hours: 3**
- CCJ 6602 Profiling Cybercrime **Credit Hours: 3**
- CJE 6690 Cybercrime Law and Social Policy **Credit Hours: 3**



- CJE 6626 Digital Forensic Criminal Investigations **Credit Hours: 3**

Electives (3 Credit Hours)

- CCJ 6935 Topics in Criminology and Criminal Justice **Credit Hours: 3**
Taken as Cyber Victimization Credit Hours: 3
- CCJ 6637 Technology Adoption and Crime **Credit Hours: 3**

Students who have completed graduate coursework prior to admission to the major may have their transcripts evaluated to determine coursework that could be applicable toward completion of the M.S. in Cybercrime.

Capstone (1 Credit Hour)

- CCJ 6057 Cybercrime Capstone **Credit Hours: 1**

Comprehensive Exam

The student will be required to submit an electronic portfolio (ePortfolio) demonstrating completion of core program competencies in the Cybercrime M.S. Degree program. This competency-based portfolio will substitute for a written comprehensive exam. The ePortfolio will be completed and submitted during CCJ 6057 Cybercrime Capstone ePortfolio.



School of Aging Studies

Major



Aging Sciences, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Behavioral & Community Sciences
Department: School of Aging Studies (GEY)

Contact Information: <http://www.grad.usf.edu/majors>

The Interdisciplinary Ph.D. in Aging Sciences is the first of its kind in the United States, and to the best of our knowledge, the world. What makes this major unique is the combined emphasis on providing a broad based foundation in the interdisciplinary aspects of aging with a focus on developing in-depth expertise in a research area. The major draws on the expertise of faculty from multiple colleges, departments, and centers at the University of South Florida to provide students with exposure to other disciplines and their different approaches to scientific and scholarly inquiry.

The Ph.D. in Aging Sciences is hosted by the School of Aging Studies, which is the organizational focal point for interdisciplinary research, educational, clinical and community service activities in aging for faculty and students. An interdisciplinary committee of faculty governs the major, allowing students to develop research programs that focus on their particular interests and capitalize on the breadth of opportunities throughout the university.

The Ph.D. in Aging Sciences is a research-oriented program designed to train future leaders in the field of aging. The major admits students who show exceptional promise to become strong academic, public sector, and corporate researchers. Students are supported with a stipend plus a tuition waiver (if funds are available), which covers tuition but not student fees, and payment of much of the premium for the student health insurance. Students who wish to apply as part-time students must contact Dr. Andel before applying.

Faculty Organization

The interdisciplinary nature of the program is exemplified by the number of core faculty who teach and serve on dissertation committees in the program and the range of academic departments they represent. Other faculty from across the university participate in the program.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GPA of 3.25
- a current (within the last 5 years) GRE; scores at or above the 50th percentile on Verbal, 30th percentile on quantitative and 50th percentile on analytical writing are preferred.
- In addition, students must submit
 - their best example of a single authored writing sample
 - a summary of their career goals and past preparation for a research career
 - three letters of recommendation from individuals familiar with the student's work and/or research

Curriculum Requirements

Total Minimum Hours - 72 credit hours beyond the baccalaureate
Core Courses - 12 hours



Additional Requirements - 22 credit hours

Directed Research/Dissertation - 38 credit hours

Core Requirements (12 Credit Hours)

- GEY 7610 Psychological Issues of Aging: Interdisciplinary Perspective **Credit Hours: 3**
- GEY 7604 Biomedical Aging **Credit Hours: 3**
- GEY 7649 Population Aging **Credit Hours: 3**
- GEY 7623 Social and Health Issues in Aging **Credit Hours: 3**

Each core course is taught from an interdisciplinary perspective with faculty from different fields addressing issues from their disciplinary perspectives.

Additional Requirements (22 credit hours)

Methods Courses - 6 hours minimum

- GEY 6402 Statistical Methods in Aging Research **Credit Hours: 3**
- GEY 6403 Multivariate Statistical Analysis for Aging Research **Credit Hours: 3**

Students must also enroll in a sequence of at least two methods/statistics courses (6 hours total) and are encouraged to obtain additional training in methods relevant to their dissertation as elective courses.

Proseminar and Content Seminar - 16 credits minimum

- GEY 7936 Proseminar in Aging Studies **Credit Hours: 1-10**
- GEY 7602 Ph.D. Seminar in Health and Aging **Credit Hours: 3**
- GEY 7611 Ph.D. Seminar in Mental Health **Credit Hours: 3**
- GEY 7622 Ph.D. Seminar in Policy and the Elderly **Credit Hours: 3**
- GEY 7651 Ph.D. Seminar in Cognition **Credit Hours: 3**

Students are required to enroll in the GEY 7936 Proseminar in Aging Studies (2 credits) each fall of their first 2 years in the program. They must also enroll for at least four Content Seminars (GEY 7602 , GEY 7911 , GEY 7622 , GEY 7651) (3 credits). The Pro-seminars investigate different research topics, allow students to practice presenting their research, and provide students with exposure to distinguished lecturers from throughout the U.S. The content seminars cover different topics relevant to aging each spring semester.

Elective Requirement

Each Ph.D. student, in consultation with his/her major advisor, designs an appropriate curriculum to obtain content and skills that match their research interests.

Project – 1 credit hour (recommended)

- GEY 7911 Directed Research in Aging Studies **Credit Hours: 1-19**

It is recommended that all students complete a First Year Research Project, designed to be presented at a national conference in the fall of their second year. Students develop individualized courses of study, allowing specialization in a wide variety of content areas and research methods. Supervised research experience is available from a number of faculty with diverse research expertise. Students should enroll for GEY 7911 (Directed Research in Aging Studies) for 1 credit hour for a grade of S/U.

Comprehensive/Qualifying Exam

The qualifying examination is usually taken during the end of the second year of course work or the following Fall semester.



Dissertation (38 Credit Hours Minimum)

At least two (2) credits of Dissertation every semester after admission to candidacy; if more than minimum of required course credit is taken, then fewer credits of Directed Research are required.

- GEY 7911 Directed Research in Aging Studies **Credit Hours: 1-19**
- GEY 7980 Dissertation and Doctoral **Credit Hours: 2-12**



Applied Aging Sciences, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares a core with the MA in Gerontology

This program is offered partially online.

Contact Information

College: Behavioral & Community Sciences

Department: School of Aging Studies (GEY)

Contact Information: <http://www.grad.usf.edu/majors>

The M.S. in Applied Aging Sciences familiarizes students with important questions and challenges relevant to older Americans, providing applied, interdisciplinary approaches and solutions. The program trains students to recognize that there are multiple perspectives on virtually all issues that confront individuals working in the field of aging, and to gain key skills in multidisciplinary gerontology. Graduates of the program possess the education and training necessary to staff, consult with, and lead the expansion of institutional and community-based programs, government agencies, and private sector initiatives that serve older adults in Florida, the nation, and the world.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- The GRE examination is optional for applicants who either have a 3.25 or higher GPA for all work completed as an undergraduate student, a 3.50 or higher in a completed master's degree program, or a completed doctoral degree (including professional degrees such as the JD and MD), all from an accredited institution.
- For students submitting a GRE score, a preferred GRE score of at least 149V (41st percentile), 142Q (16th percentile), 3.5 A.W.
- Statement of Purpose in pursuing a M.S. in Applied Aging Sciences
- Current Resume
- Two (2) letters of references

Curriculum Requirements

Total Minimum Hours - 30 Credit Hours

- **Shared Core Courses - 9 Credit hours**
- **Electives - 18 Credit Hours**
- **Capstone - 3 Credit Hours**

Shared Core Courses (9 Credit Hours)



- GEY 6600 Human Development and Aging **Credit Hours: 3**
- GEY 6613 Physical Change and Aging **Credit Hours: 3**
- GEY 6617 Gerontological Counseling Theories and Practice **Credit Hours: 3**

Electives (21 Credit Hours Minimum)

The remaining 21 hours of coursework beyond the required Core coursework and Capstone class must be selected from other graduate courses in gerontology. The following courses are suggested for the following areas of interest:

Geriatric Care Management

- GEY 6222 Elder Abuse Assessment and Intervention **Credit Hours: 3**
- GEY 6206 Family Caregiving in Aging and Chronic Illness **Credit Hours: 3**
- GEY 6321 Gerontological Case Management **Credit Hours: 3**

Mental Health Assessment

- GEY 6614 Aging and Mental Disorders **Credit Hours: 3**
- GEY 6616 Mental Health Assessment and Intervention with Older Adults **Credit Hours: 3**

Additional Elective Courses

- GEY 5504 Assisted Living Facility Management **Credit Hours: 3**
- GEY 5476 Program Evaluation in an Aging Society **Credit Hours: 3**
- GEY 5630 Economics and Aging **Credit Hours: 3**
- GEY 5642 Perspectives on Death and Dying **Credit Hours: 3**
- GEY 6626 Health, Ethnicity, and Aging **Credit Hours: 3**
- GEY 6646 Gerontological Issues and Concepts **Credit Hours: 3**

Under certain circumstances, students may be able to substitute other graduate classes as part of the elective courses required for the degree with permission from the Graduate Director.

Capstone Requirement (3 Credit Hours)

The Capstone may include an internship, portfolio, or project, selected in consultation with the Graduate Director.

Following completion of the necessary coursework, students enroll in GEY 6910, and complete a capstone applied research project designed to integrate key knowledge, concepts, and information in the field of gerontology. This course is pass/fail and must be taken and passed by all students in the M.S. major to meet requirements for the degree.

- GEY 6910 Directed Research **Credit Hours: 1-4** (3 credits for this program)

Internship (3 Credit Hours)

Internships are available for students local to USF who need practical experience in the field of aging. Please consult with the Program Director at least one semester before intended enrollment in an internship.

- GEY 6940 Field Placement **Credit Hours: 1-6** (3 Credits for this program)

Comprehensive Exam

Students complete the Capstone requirement in lieu of a comprehensive exam.



Gerontology, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered partially online.

Contact Information

College: Behavioral & Community Sciences

Department: School of Aging Studies

Contact Information: <http://www.grad.usf.edu/majors>

Gerontology is the study of the process of human aging in all its aspects: physical, psychological, and social. The demographic imperative of an increasingly older age distribution will require graduates who have acquired an integrated base of knowledge and skills to deal with the complex challenges that will confront individuals, societies, and nations in the coming decades. The M.A. in Gerontology program emphasizes educating students who, in their professional careers, will work to sustain or improve the quality of life of older people. The ultimate goal of this program is to educate the next generation of practitioners and program personnel in the field of aging and gerontology and to prepare interested students for doctoral programs in aging and related fields.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- The GRE examination is optional for applicants who either have a 3.25 or higher GPA for all work completed as an undergraduate student, a 3.50 or higher in a completed master's degree program, or a completed doctoral degree (including professional degrees such as the JD and MD), all from an accredited institution.
- For students submitting a GRE score, a preferred GRE score of at least 149V (41st percentile), 142Q (16th percentile), 3.5 A.W.
- Statement of Purpose in pursuing a MA in Gerontology
- Current Resume
- 2 letters of references

Curriculum Requirements

Total Minimum Hours - 30

- Core courses - 9 credit hours
- Electives - 18 credit hours
- Capstone - 3 credit hours

Core Courses (9 Credit Hours)

- GEY 6600 Human Development and Aging **Credit Hours: 3**
- GEY 6613 Physical Change and Aging **Credit Hours: 3**
- GEY 6617 Gerontological Counseling Theories and Practice **Credit Hours: 3**



Electives (18 Credit Hours Minimum)

The remaining 18 hours of coursework beyond the required Core coursework and Capston class must be selected from other graduate courses in Gerontology. Under certain circumstances, students may be able to substitute other graduate classes as part of the elective courses required for the degree with permission from the Graduate Director.

Preferred Elective Courses:

- GEY 5476 Program Evaluation in an Aging Society **Credit Hours: 3**
- GEY 5630 Economics and Aging **Credit Hours: 3**
- GEY 5642 Perspectives on Death and Dying **Credit Hours: 3**
- GEY 6206 Family Caregiving in Aging and Chronic Illness **Credit Hours: 3**
- GEY 6626 Health, Ethnicity, and Aging **Credit Hours: 3**
- GEY 6646 Gerontological Issues and Concepts **Credit Hours: 3**
- GEY 6901 Directed Reading **Credit Hours: 1-4 (1-3 credits in this program)** (Directed Readings in Gerontology)

Other Elective Courses:

- GEY 5504 Assisted Living Facility Management **Credit Hours: 3**
- GEY 6222 Elder Abuse Assessment and Intervention **Credit Hours: 3**
- GEY 6614 Aging and Mental Disorders **Credit Hours: 3**
- GEY 6616 Mental Health Assessment and Intervention with Older Adults **Credit Hours: 3**
- GEY 6321 Gerontological Case Management **Credit Hours: 3**
- GEY 6607 Alzheimer's Disease Management **Credit Hours: 3**

Capstone Requirement (3 Credit Hours)

The Capstone may include an internship, portfolio, or project, selected in consultation with the Graduate Director. Following completion of the necessary coursework, students enroll in GEY 6910 Directed Research, and complete a capstone applied research project designed to integrate key knowledge, concepts, and information in the field of gerontology. This course is pass/fail and must be taken and passed by all students in the M.A. major to meet requirements for the degree.

- GEY 6910 Directed Research **Credit Hours: 1-4 (3 credits for this program)**

Comprehensive Exam

Students complete the Capstone requirement in lieu of a comprehensive exam.

Internship

Internships are available for students local to USF who need practical experience in the field of aging. Please discuss with the Program Director early in your program of study to determine if an internship is needed to meet professional goals.

- GEY 6940 Field Placement **Credit Hours: 1-6** (3 credit hours for this program)



School of Social Work

Major



Social Work, M.S.W.

Priority Admission Application Deadlines: www.grad.usf.edu/majors

This program is offered fully online.

Also offered as as a Concurrent Degree

Contact Information

College: Behavioral & Community Sciences

Department: School of Social Work

Contact Information: www.grad.usf.edu/majors

The School of Social Work offers a program leading to a Master of Social Work (M.S.W.) degree. The M.S.W. graduate program in social work is a course of study designed to respond to an identified need in the region for skilled clinical social work practitioners. It is built upon a core of information basic to social work practice, followed by an advanced scholarly study in preparation for clinical work with individuals, families, and small groups. An intense field practicum gives students the opportunity to apply theory gained in the classroom to the problems of agency clients.

Accreditation:

Accredited by the Council of Social Work Education (CSWE).

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- School of Social Work Application
- Three letters of recommendation
- GRE scores are not required. However, applicants can submit GRE scores for consideration. Quantitative 144 (17%) or higher and Verbal 153 (61%) or higher.
- 500-word personal statement and a 500-word essay describing a social problem
- Liberal arts pre-requisites; to be eligible for admission to the MSW Major, students must have taken courses with a liberal arts perspective. Liberal Arts perspective is defined as twelve (12) credits which include three credits of biology with human content and a minimum of three credits of social and behavioral sciences. The remaining credits may be completed through additional social and/or behavioral sciences, humanities and fine arts classes. (One statistics course may also be used in completing this requirement.) Liberal Arts requirements may be waived at the discretion only of the MSW chair in consultation with the Director.
- All applicants must meet the pre-requisites of an undergraduate Liberal Arts background as defined in the Procedures and Criteria for Admission portion of the MSW application.
- It is preferred, but not required that all applicants to the Master's Degree program in Social Work have completed one year of post-undergraduate work in a social service agency (in a service capacity) or its equivalent as determined by the MSW Graduate Admissions Committee. Experiences that might be considered as equivalent to one year's work include supervised field practicum hours, extensive volunteer experience, or other professional work experiences.
- An interview may be required; experience in the field preferred.



- All MSW applicants will have their undergraduate transcripts evaluated in relation to a set of liberal arts course pre-requisites.
- All Admission materials must be received by the Graduate Admissions Office and by the School of Social Work by the specified deadlines of the year for which admission is being sought.

Curriculum Requirements

Total Minimum hours:

60 (non-BSW students)

35 (BSW students)

- **Foundations Courses - 17 Credit Hours (non-BSW)**
- **Core Courses - 5 Credit Hours**
- **Additional required courses - 15 Credit Hours**
- **Field Experience - 13 Credit Hours(non-BSW), 8 Credit Hours(BSW)**
- **Electives - 9 Credit Hours(non-BSW), 6 Credit Hours(BSW)**
- **Capstone Project - 1 Credit Hour**

BSW Students (Advanced Standing)

Students entering the major with a BSW have the opportunity of applying for advanced standing from a CSWE accredited BSW (within 5 years). Students qualify by receiving "B-" or better grades in all the undergraduate social work courses. (Students do not qualify with any grade below "B-" in these courses).

Foundations Courses (17 Credit Hours Non-BSW)

Students entering without a BSW are required to complete the following Foundation Courses:

- SOW 6105 Foundations in Human Behavior **Credit Hours: 3**
- SOW 6186 Foundations of Social Work Macro Practice **Credit Hours: 2**
- SOW 6235 Foundations of Social Welfare Policy **Credit Hours: 3**
- SOW 6305 Foundations of Social Work Micro Practice **Credit Hours: 3**
- SOW 6348 Diversity and Social Justice **Credit Hours: 3**
- SOW 6405 Foundations of Social Work Research and Statistics **Credit Hours: 3**

Core Requirements (5 Credit Hours)

- SOW 6124 Psychopathology **Credit Hours: 3**
- SOW 6126 Health, Illness, and Disability **Credit Hours: 2**

Additional Required Courses (15 Credit Hours)

Social Work Practice (9)

- SOW 6342 Social Work Practice with Individuals **Credit Hours: 3**
- SOW 6362 Social Work Practice with Couples and Families **Credit Hours: 3**
- SOW 6368 Social Work Practice with Groups **Credit Hours: 3**
Policy and Services (3)
- SOW 6236 Social Welfare Policy Development & Analysis **Credit Hours: 3**
Social Work Research/Evaluation (3)
- SOW 6438 Evaluation of Clinical Practice in Diverse Setting **Credit Hours: 3**



Field Experience (13 Credit Hours non-BSW), (8 Credit Hours BSW)

A minimum of 8 hours is required for BSW students. For non-BSW students all 13 hours is required.

For full-time students:

- SOW 6534 Field Instruction I **Credit Hours: 1**
- SOW 6535 Field Instruction II **Credit Hours: 4**
- SOW 6536 Field Instruction III **Credit Hours: 2-4**
- SOW 6539 Field Instruction IV **Credit Hours: 4**

For part-time students:

- SOW 6553 Field Instruction Sequence IA: Part-Time **Credit Hours: 2**
- SOW 6554 Field Instruction Sequence IB: Part-Time **Credit Hours: 2**
- SOW 6555 Field Instruction Sequence IIA: Part-Time **Credit Hours: 2**
- SOW 6556 Field Instruction Sequence IIB: Part-Time **Credit Hours: 2**
- SOW 6557 Field Instruction Sequence IIC: Part-Time **Credit Hours: 2**
- SOW 6558 Field Instruction Sequence IIIA: Part-Time **Credit Hours: 2**
- SOW 6559 Field Instruction Sequence IIIB: Part-Time **Credit Hours: 2**

Electives (9 Credit Hours non-BSW), (6 Credit Hours BSW)

All MSW students with a BSW are required to take a minimum of 6 clinical elective credit hours. Non-BSW students will take an additional elective (3 hours). All clinical electives must be taken in the School of Social Work. Students may take clinical electives during any semester including summer sessions. However, part-time students should check the program course schedule for the recommended semesters for electives.

Comprehensive Exam

In lieu of the Comprehensive exam, students will complete a Capstone Project involving the content from across the curriculum. It will be completed in the final semester. It is worth 1 credit hour and meets the requirement for the Comprehensive Exam.

Capstone Project (1 Credit Hour)

Other Requirements

The M.S.W. places great emphasis on standards of professional behavior and ethics in the practice of social work. Entrance into the M.S.W. does not guarantee graduation from the major. Students admitted to the M.S.W. must maintain a minimum GPA of 3.00, in all social work courses, with no grade below "B-" counting toward graduation. Failure to maintain the specified GPA or to exhibit responsible professional behavior determined by the School may result in suspension or dismissal from the major. Courses with grades below "B-" must be repeated before progressing to the next sequence. Students must pass the comprehensive paper during the last semester in order to graduate from the major.

Students may pursue the M.S.W. on either a full- or part-time basis. The M.S.W. consist of 60 semester hours of study and is offered on campus and online. Students should check directly with the School of Social Work for applications and timelines. The full-time option takes four semesters to complete; the part-time option takes eight (8) consecutive semesters. The major offers graduates from a Council on Social Work Education (CSWE) accredited BSW program (within 5 years) the option of applying for advanced standing. The advanced standing program is available on either a full- or part-time basis. The advanced standing program is also offered on campus and online. Students qualify by receiving "B-" or better grades in all the undergraduate social work courses. (Students do not qualify with any grade below "B-" in these courses). Both the full- and part-time options are heavily sequenced and students must stay in sequence.

- SOW 8907 Capstone Project **Credit Hours: 1**



Concurrent Degree

Also available as a Concurrent Degree



Social Work, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Behavioral & Community Sciences

Department: School of Social Work

Contact Information: <http://www.grad.usf.edu/majors>

The School of Social Work offers a full-time interdisciplinary program leading to a Ph.D. in Social Work. The Ph.D. degree program provides a course of study to prepare graduates for academic and research careers, to provide leadership in research and education committed to excellence in social work practice and to provide leadership in the development of program and services for diverse, vulnerable and underserved populations. Unique to this program is the strategic emphasis on topic areas that align with the strengths of the College, USF, and forecasted direction of the profession. These are: (1) Behavioral Health, (2) Global Issues, (3) Health, (4) Leadership and Business, and (5) Societal Change and Innovation. The degree program leads to the preparation of future scholars and educators to advance social justice and vulnerability issues.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Admission is typically limited to individuals who hold a Master in Social Work from programs accredited by the Council on Social Work Education or international equivalents. However, applicants without a Master's degree in social work, but with a Master's degree in a related discipline are welcome to apply and will be considered on a case by case basis. The admissions committee may review the degree and request additional material for consideration to the program.

- A master's degree GPA of at least 3.50 on a 4.00 scale
- Graduate Record Examination (GRE) with preferred scores of at least 30th percentile in the quantitative section and at least 50th percentile in the verbal section.
- Two letters of recommendation addressing applicant's academic and professional capabilities.
- Applicant's statement that describes reasons for seeking admission to the Ph.D. in Social Work program, career goals, and research interests.
- Professional writing sample providing evidence of scholarly abilities, such as journal article, book chapter, technical report, thesis, grant application or other comparable work.
- The admissions committee may request a personal or telephone interview with an applicant to clarify materials submitted.

Curriculum Requirements

Total Minimum Hours: 42 post master's

- **Core – 15 credit hours**
- **Courses in Area of Strategic Emphasis – 9 credit hours**
- **Graduate Research Methods – 12 credit hours minimum**
- **Dissertation – 2 credit hours minimum**
- **Additional hours in research or area of emphasis/directed studies or dissertation – 4 credit hours minimum**



The Ph.D. degree program requires a minimum of 42 credit hours post MSW/master's degree. In accordance with university policy requiring a minimum of 72 hours post baccalaureate for a Ph.D., a minimum of 30 credit hours from the MSW/master's degree can be applied to this degree's post-baccalaureate's 72 hour minimum. No credit hours for field work/internship will be counted towards the required credit hours for the Ph.D.

Core Requirements (15 Credit Hours)

- SOW 7491 Theoretical Perspectives in Social Work Research **Credit Hours: 3**
- SOW 7981 Scientific Communication and Dissemination Practices **Credit Hours: 3**
- SOW 7616 Advanced Clinical Practice with Complex Problems **Credit Hours: 3**
- SOW 7775 Critical Issues in Social Work **Credit Hours: 3**
- SOW 7776 The Social Work Educator in the University **Credit Hours: 3**

Courses in Area of Strategic Emphasis (9 Credit Hours Minimum)

Students will also take a minimum of three (3) (9 credit hours) graduate courses in their area of strategic emphasis offered in the College or University.

Graduate Research Methods (12 Credit Hours Minimum)

Students will complete three (3) credit hours minimum in Directed Studies.

- SOW 7919 Directed Studies in Social Work Research **Credit Hours: 3**
- Research Courses **Credit(s): 9***
** Students will also take a minimum of three (3) (9 credit hours) of graduate research methods course offered in the College or the University.*

Additional Hours (4 Credit Hours Minimum)

Students should expect to take at least four (4) additional credit hours either in research or area of strategic emphasis, or in directed studies or dissertation hours.

Qualifying Exam

Successful completion of **qualifying examinations** at the end of coursework prepares the student for Candidacy. Students must successfully pass the School of Social Work qualifying exam in order to be admitted into Doctoral Candidacy.

Dissertation (2 Credit Hours Minimum)

Successful defense of a dissertation consisting of original Social Work research. Students will take a minimum of 2 dissertation credits hours at the time of their defense.

- SOW 7980 Dissertation Hours **Credit Hours: 2-4 (2 credits for this program)**



College of Education

College of Education

ED - Programs

University of South Florida
College of Education
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

Web address: <http://www.usf.edu/education>

Phone: 813-974-3406

Fax: 813-974-3391

Interim College Dean: Judith Ponticell, Ph.D.

Associate Dean: Ann Cranston-Gingras, Ph.D.

Accreditation:

The College is accredited by the National Council for the Accreditation of Teacher Education (NCATE) for the preparation of P-12 educators. Its initial certification programs are approved by the Florida Department of Education.

Vision/Mission Statement:

The USF College of Education envisions itself as a leader in regional, national and international education. Leadership in Education encompasses:

1. academic excellence,
2. research, scholarship and inquiry that renews the educational process,
3. collaboration that serves communities, institutions and individuals,
4. educator preparation that builds on academic excellence, scholarship, and clinical practice, and
5. collaboration that contributes to a just and productive society.

The College of Education fulfills this vision by: offering challenging learning opportunities in a supportive and diverse environment; creating and supporting research, scholarship, and inquiry in education; preparing the next generation of educators, scholars, and leaders for P-12 and the professoriate through exemplary undergraduate and graduate degree programs; serving the community through collaborative relationships; and, working with schools, agencies, and communities to offer educator preparation programs that prepare professionals who work competently, collaboratively, and ethically to improve educational outcomes for all.

Many concentrations are offered under the umbrella of the "Curriculum and Instruction" Major. Graduate Certificates are also offered in a number of areas. For information about the different majors refer to individual sections of the Graduate Catalog. Students seeking initial certification must be admitted to one of the degree programs offered in the College. Individuals seeking additional information should contact the College of Education Graduate Support Office at 813-974-3406, or http://www.coedu.usf.edu/main/sas/sas_graduate.html. Students who have identified a major should contact directly the advisor for that major. Please be advised that major curriculum and/or course requirements are subject to change per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria. In instances where college or major requirements exceed university minimum requirements, students must meet the highest order of requirements presented. Always check with the advisor in your major of interest to determine whether or not there are programmatic variations. Please note also that COEDU college and major curriculum requirements are stated always as minimum requirements.



College of Education Minimum Requirements

All degree requirements are stated below as college minimums. Please consult the listing for the individual major for additional requirements.



Dean's Office

Major



Curriculum and Instruction, Ed.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered fully online.

Concentrations:

- Counselor Education
- Elementary Education
- Higher Education, Administration
- Instructional Technology
- Mathematics Education
- Measurement and Evaluation
- Reading-Language Arts Education
- School Psychology
- Special Education
- Vocational Education

Note – not all concentrations are available to begin every semester. Prior to submitting the admission application, check with the Graduate Director to confirm if the concentration of interest is available.

Contact Information

College: Education

Contact Information: <http://www.grad.usf.edu/majors>

The Ed.S. degree is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the major has few required courses, and each student's program of study is individually planned in consultation with a graduate faculty committee.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major.

- Students are considered for this degree on a case-by-case basis. Please contact the Graduate Coordinator prior to applying.
- The School Psychology Concentration only starts in the fall. This is a limited access program, which means that only a limited number of students are accepted each year.

A complete application includes the following:

- Have a master's, or equivalent, from an accredited college or university.
- GRE scores (Note: Verbal, Quantitative, and Analytical Writing scores are required).
- Statement of professional goals. In a 2-3 page statement, explain your immediate, intermediate, and long term goals as well as your research interests. Professional goals and research interests must be compatible with the relevant concentration area.
- Three letters of recommendation from professionals who are familiar with your scholarship and work history.
- Provide evidence of at least three years of successful work experience in relevant professional roles.
- Participate in an oral interview with two or more faculty members.



- Demonstrate the ability to write professionally by submitting a scholarly paper completed as part of your prior course work. Or May be required to demonstrate the ability to write professionally by submitting a spontaneous writing sample at the time of the interview.
- Receive endorsement by the majority of tenured and tenure-earning faculty members in the department.
- If invited for an interview, present self professionally in an oral interview with two or more faculty members and graduate students.

Curriculum Requirements

Total Minimum Hours - 30 Credit Hours Minimum

- **Core - 7 Credit Hours**
- **Concentration - 18 Credit Hours Minimum**
- **Thesis/Project - 2 Credit Hours Minimum**
- **Remaining hours needed to get to the total minimum hours are selected with the Graduate Director.**

Note: Students may be required to take additional hours depending on the course of study, and/or academic deficiencies. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

Core Requirements (7 Credit Hours)

- EDF 7410 Design of Systematic Studies in Education **Credit Hours: 3**
- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**

Concentration Requirements (18 Credit Hours Minimum)

Students must select on of the concentrations below:

Counselor Education Concentration (26 Credit Hours)

Designed to provide professional counselors with an opportunity to develop competencies in areas of special needs and interests. Consequently, each student's program is individually planned in consultation with a faculty advisor.

- MHS 7401 Advanced Counseling: Theories and Practicum **Credit Hours: 4**
- MHS 7610 Supervision: Theories and Practicum **Credit Hours: 4**
- MHS 7930 Advanced Seminar in Counselor Education **Credit Hours: 2 (4 credits for this program)**
- EDG 7931 Selected Topics **Credit Hours: 1-4 (4 credits for this program)** (Adv. Practicum in Counseling)
- SDS 7830 Advanced Internship in Counselor Education **Credit Hours: 2-8 (3 credits minimum for this program)**
- EDG 7931 Selected Topics **Credit(s): 1-4 (3 credits for this program)** (Cognitive Behavioral Res. Seminar)
- EDF 7408 Statistical Analysis for Educational Research II **Credit Hours: 4**

Elementary Education Concentration (18 Credit Hours Minimum)

Prepares in-school leaders with expertise in instruction and program development in a variety of educational settings.

- EDG 7066 Critical Pedagogy in Teacher Education **Credit Hours: 3**



- EDE 7206 Critical Analysis of Curriculum in Elementary Schools **Credit Hours: 3**

Remaining courses (12 Credit Hours) selected in consultation with the advisor.

Higher Education, Administration Concentration (18 Credit Hours)

The Ed.S. in Curriculum and Instruction with an emphasis in Higher Education Administration is an applied, advanced professional degree that prepares individuals with research-based knowledge and skills for leadership positions in both community colleges and universities.

Students complete 18 credit hours selected from the following courses:

- EDH 6051 Higher Education in America **Credit Hours: 3**
- EDH 6081 Junior College in American Higher Education **Credit Hours: 3**
- EDH 7057 Introduction to Research Studies in Higher Education **Credit Hours: 3**
- EDH 7225 Curriculum Development in Higher Education **Credit Hours: 3**
- EDH 7405 Policy and Legal Dimensions in Higher Education **Credit Hours: 3**
- EDH 7505 Higher Education Finance **Credit Hours: 3**
- EDH 7632 Leadership in Higher Education **Credit Hours: 3**
- EDH 7633 Governing Colleges and Universities **Credit Hours: 3**
- EDH 7635 Organization and Administration of Higher Education **Credit Hours: 3**
- EDH 7636 Organizational Theory and Practices in Higher Education **Credit Hours: 3**

Instructional Technology Concentration (27 Credit Hours)

Designed to prepare students for leadership in technology related positions. Courses include an array of topics including instructional design, distance learning, authoring, instructional graphics, and project management.

- EDF 6284 Problems in Instructional Design for Computers **Credit Hours: 3**
- EME 7631 Research in Technology Project Management **Credit Hours: 3**
- EME 6613 Development of Technology-Based Instruction **Credit Hours: 3**
- EME 7938 Computer-Augmented Instructional Paradigms in Education **Credit Hours: 3**
- EME 7910 Directed Research in Instructional Technology **Credit Hours: 1-19 (3 credits for this program)**
- EME 7458 Research in Distance Learning **Credit Hours: 3**

Remaining courses (9 credit hours) are selected from the following list:

- CGS 6210 Computer Hardware Systems for Education **Credit Hours: 3**
- EME 6930 Programming Languages for Education **Credit Hours: 3**
- EDF 6938 Selected Topics **Credit Hours: 1-4**
Taken as:
 - PLE: Flash (3 Credit Hours)
 - PLE: Web Programming 1 (3 Credit Hours)
 - PLE: Web Programming 2 (3 Credit Hours)
- EME 6208 Interactive Media **Credit Hours: 3**
- EME 6215 Instructional Graphics **Credit Hours: 3**
- EME 6209 Digital Video **Credit Hours: 3**
- EME 6055 Current Trends in Instructional Technology **Credit Hours: 3**

Other appropriate graduate course(s) as approved by the student's graduate committee.



Mathematics Education Concentration (21 Credit Hours)

Prepares specialists for classroom instruction or leadership/supervisory roles.

The following courses are required:

- SDS 7643 Advanced Student Development Theories **Credit Hours: 3**
- EDF 6938 Selected Topics **Credit Hours: 1-4** Taken as **Advance Seminar in Secondary Education (3 Credit Hours)**
- EME 6055 Current Trends in Instructional Technology **Credit Hours: 3**
- MAE 7796 Research Issues in Mathematics Education **Credit Hours: 3**
- MAE 7146 Curriculum History/Research Mathematics Education **Credit Hours: 3**
- MAE 7794 Preparing Teachers of Mathematics, K-12 **Credit Hours: 3**
- MAE 7138 Assessment in Mathematics Education **Credit Hours: 3**
- MAE 7945 Practicum in Mathematics Education **Credit Hours: 3**

Measurement and Evaluation Concentration (18 Credit Hours)

Prepares practitioners and teachers for the broad field of Adult Education. This includes public and proprietary schools, and non-school based settings such as business and industry, the professional associations, community agencies, and governmental units.

This Concentration is individually planned with an advisor to include coursework in systematic planning, test development, program evaluations, research design, and statistical analysis.

- EDF 7408 Statistical Analysis for Educational Research II **Credit Hours: 4**
- EDF 7484 Statistical Analysis for Educational Research III **Credit Hours: 4**

Remaining courses (ten credit hours) selected in consultation with the advisor.

Reading-Language Arts Education Concentration (18 Credit Hours Minimum)

Prepares leaders in the field of literacy. The curriculum is designed to promote expertise in literacy research, theory, and practice. Emphasizes a critical analysis of reading policy and the need for applied, community-based research. The concentration extends students' research and analysis skills so they may conduct program evaluations to guide classroom practice and school-based reform.

Each student will select one particular focus within literacy (e.g. Adolescent & Adult Literacy, Early Childhood Literacy, Elementary Literacy, Literacy and the Arts, Literature in Education, Literacy Policy, Multimedia Navigation and Composition, Reading Processes and Assessment). The student works with a faculty committee to develop his or her particular program of study from the literacy courses below. Other graduate courses related to the area may be approved by the Graduate Director.

- EDG 7046 Trends and Issues in Educational Policy: Literacy and Teacher **Credit Hours: 3**
- EDF 7138 Adolescent Development **Credit Hours: 3**
- EDG 7931 Selected Topics **Credit Hours: 1-4** Taken as **Language and Literacy Development (3 Credit Hours)**
- EEC 7306 Teaching and Learning in Early Childhood **Credit Hours: 3**
- EEC 7317 ICT in the Early Years **Credit Hours: 3**
- EEC 7416 Sociocultural Approaches to Working with Children and Families **Credit Hours: 3**
- EEC 7417 Family Literacy **Credit Hours: 3**
- EEC 7627 Arts & Aesthetics in Early Childhood Education **Credit Hours: 3**
- LAE 5932 Selected Topics in the Teaching of English **Credit Hours: 3** Taken as **Art and Aesthetics in Early Childhood Education (3 Credit Hours)**
- LAE 6315 Composing Texts: Disciplinary Practices for Writers & Writing **Credit Hours: 3**



- LAE 6366 New Perspectives on the Teaching of Young Adult Literature in Middle & Secondary Schools **Credit Hours: 3**
- LAE 6749 Composition and the Arts in Literacy Education **Credit Hours: 3**
- LAE 7747 Literature Program Design **Credit Hours: 3**
- LAE 7794 Survey of Research on Writing Development and Instruction **Credit Hours: 3**
- LAE 7868 Symbolic Processes of Multimedia Literacies **Credit Hours: 3**
- RED 6247 Supervision and Coaching in Literacy **Credit Hours: 3**
- RED 6365 Disciplinary Literacies and Reading **Credit Hours: 3**
- RED 6449 Literacy and Technology **Credit Hours: 3**
- RED 6540 Assessment in Developing Literacies **Credit Hours: 3**
- RED 6544 Cognition, Comprehension, and Content Area Reading: Remediation of Reading **Credit Hours: 3**
- RED 6656 Literature for a Diverse Society **Credit Hours: 3**
- RED 6749 History and Foundations in Reading and STEM Disciplines **Credit Hours: 3**
- RED 7048 Reading as a Symbolic Process **Credit Hours: 3**
- RED 7742 Research in Vocabulary and Word Study **Credit Hours: 3**
- RED 7798 Research in Transdisciplinary Texts and Teaching **Credit Hours: 3**
- RED 7315 Survey of Literacy Research Methods **Credit Hours: 3**

School Psychology Concentration (39 Credit Hours)

Prepares school psychologists to practice in schools and other educational settings.

- SPS 6700C Psychoeducational Interventions with Children and Adolescents I **Credit Hours: 4**
- SPS 6701C Psychoeducational Interventions with Children and Adolescents II **Credit Hours: 4**
- SPS 6702C Psychoeducational Interventions with Children and Adolescents III **Credit Hours: 4**
- SPS 6940 Practicum in Psychoeducational Interventions **Credit Hours: 1-4 (2 credits in this program) (I)**
- SPS 6941 Practicum in Psychoeducational Interventions **Credit Hours: 1-4 (2 credits in this program) (II)**
- SPS 6196 Assessment of Child and Adolescent Personality **Credit Hours: 4**
- SPS 6101 Child and Adolescent Behavior Disorders **Credit Hours: 3**
- EDF 6166 Consulting Skills for Staff Development **Credit Hours: 1-3**
- SPS 7700 Advanced Psychoeducational Interventions **Credit Hours: 2-4**
- EDF 6883 Issues in Multicultural Education **Credit Hours: 3**
- TSL 6700 ESOL for School Psychologists and School Counselors **Credit Hours: 3**
- SPS 6947 Internship **Credit Hours: 1-9 (4 credits for this program)**

Special Education Concentration (18 Credit Hours)

The Special Education Concentration is granted on the demonstration of respect for diversity, scholarship, effective teaching in the teacher education program, skills in systems collaboration, and the ability to do research culminating in a comprehensive examination and a thesis/project. The program focuses on urban special education, special education policy, and university-school partnerships in preparing researchers, teacher educators and educational leaders.

- EEX 7745 Historical, Ethical, and Disciplinary Foundations of Special Education **Credit Hours: 3**
Required:
- EEX 7744 Curriculum and Instructional Issues in Urban Special Education **Credit Hours: 3**

Choice of 12 credits in consultation with major professor from the following:



- EDG 7067 Philosophies of Inquiry **Credit Hours: 3**
- EDF 7477 Qualitative Research in Education Part I **Credit Hours: 4**
- EDF 7478 Qualitative Research in Education Part II **Credit Hours: 4**
- EEX 7429 Special Education Teacher Education **Credit Hours: 3**
- EEX 7425 Special Education Leadership Studies **Credit Hours: 1-2**
- EDA 7238 Special Education Law and Policy Issues **Credit Hours: 3**
- EEX 7428 Teacher Education in Special Education: Conceptual **Credit Hours: 3**
- EEX 7815 Research Seminar **Credit Hours: 1-9**
- EEX 7746 Ethics in Teacher Education and Teacher Development **Credit Hours: 3**

Vocational Education Concentration (18 Credit Hours)

The Ed.S. in Curriculum and Instruction with an emphasis in Vocational Education is an applied, advanced professional degree that prepares individuals with research-based knowledge and skills for leadership positions in educational settings that educate, sustain and develop the current and future workforce.

Students complete 18 credit hours from the following courses:

- ECW 7066 Foundations and Philosophy of Vocational, Technical and Adult Education **Credit Hours: 3**
- ECW 7105 Vocational and Adult Education Program Planning and Implementation **Credit Hours: 3**
- ECW 7167 Career Development in Career and Workforce Education Change **Credit Hours: 3**
- ECW 7168 Instructional Development for Vocational, Technical, and Adult Education **Credit Hours: 3**
- ECW 7195 Comparative Study of Career Workforce Education Systems **Credit Hours: 3**
- ECT 6766 Emerging Workplace Competencies **Credit Hours: 3**
- ECT 7791 Research Seminar in Vocational, Technical, and Adult Education **Credit Hours: 3**

Electives (9 Credit Hours)

Graduate level elective courses (9 credit hours) are chosen based upon the student's individual needs and are approved by the Graduate Advisor. For some concentrations electives are selected from a set list related to the Concentration.

Students in the Instructional Technology Concentration must select their electives from the following list:

- CGS 6210 Computer Hardware Systems for Education **Credit Hours: 3**
 - EME 6930 Programming Languages for Education **Credit Hours: 3**
PLE: Flash (3 Credit Hours)
PLE: Web Programming 1 (3 Credit Hours)
PLE: Web Programming 2 (3 Credit Hours)
 - EME 6208 Interactive Media **Credit Hours: 3**
 - EME 6207 Web Design **Credit Hours: 3**
 - EME 6215 Instructional Graphics **Credit Hours: 3**
 - EME 6209 Digital Video **Credit Hours: 3**
 - EME 6055 Current Trends in Instructional Technology **Credit Hours: 3**
- Other appropriate graduate course(s) as approved by the student's graduate committee.

Comprehensive Exam

After completion of the program of study and the thesis/project, an Ed.S. oral or written comprehensive examination is required. The Examination will evaluate the student's competence in applying skills and knowledge consistent with the original program goals. Each



Ed.S. Supervisory Committee is responsible for developing and administering the examination. It is the responsibility of the Major Professor to ensure that this process proceeds in due course.

Students must be enrolled for a minimum of two thesis or project hours in the semester in which the comprehensive examination is taken. The Major Professor must submit the results of the comprehensive examination using the Verification of Ed.S. Comprehensive Exam Results form. The verification of results form is to be submitted to the Graduate Support Office (EDU 320) no later than the deadline for submission of term grades in the semester in which the student plans to graduate, in order for the student to meet graduation requirements for that semester.

Tests or Examinations

Students must complete the General Knowledge Exam prior to internship. It is recommended that students take both the General Knowledge Examination and the Professional Education Examination (required for degree completion) at the same time. Both of these requirements should be completed as a part of the Ed.S. Degree. All students are required to take and pass the FTCE School Psychology subject area exam and the National Association of School Psychology Certification Exam (PRAXIS) during the internship year, prior to graduation.

Thesis/Project (2 Credit Hours Minimum)

The student is required to plan and successfully complete an individual thesis or project. The purpose is to provide an opportunity for the student to apply knowledge gained in the major to the resolution of significant needs arising from professional practice. Students are required to enroll for a minimum of two (2) credit hours in the thesis or project course each semester while working on the Ed.S. thesis or project, including the semester in which the thesis or project is submitted to the College Associate Dean for Academic Affairs or the Office of Graduate Studies (School Psychology students). Students must have an oral defense of the project/thesis with their project/thesis supervisory committee. Individual concentrations may have additional requirements. For more information contact the department offering the major/concentration.

Oral defense of the thesis/project

- EDG 6971 Thesis: Masters/Education Specialist **Credit Hours: 2-19**
- EDG 6975 Project: Master's/Specialist **Credit Hours: 1-9**

Remaining Hours

Remaining hours needed to meet the minimum for the degree are selected in consultation with the Grad Director. Typically, students take additional thesis or project hours.



Curriculum and Instruction, M.Ed.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

- College Student Affairs
- Early Childhood Education
- Measurement & Evaluation
- Secondary Education: Biology
- Secondary Education: Chemistry
- Secondary Education: Mathematics
- Secondary Education: Physics
- Secondary Education: Social Science
- Secondary Education: TESOL

Note – not all concentrations are available every semester. Prior to submitting the admission application, check with the Graduate Director to confirm if the concentration of interest is available.

Contact Information

College: Education

Contact Information: <http://www.grad.usf.edu/majors>

The Curriculum and Instruction degree is only offered in conjunction with a concentration area. Please see the area of concentration (listed alphabetically in the catalog) to determine whether or not the Curriculum and Instruction degree is available in your area of interest.

This degree is designed for the professional educator who wishes to pursue advanced study. The primary objective is to prepare instructional leaders through courses in curriculum, methods, supervision, learning principles, human interaction, and areas of specialization. The foundation areas (professional studies) receive greater emphasis in the M.Ed. degree programs than the M.A. degree programs. Coursework in the concentration may include courses in colleges other than the College of Education. The Curriculum and Instruction major is offered with concentration areas. General major requirements are listed below. For specific specialization requirements, contact the appropriate department.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Curriculum Requirements

Total Minimum Hours - 33 hours minimum

College of Education Curriculum Requirements for the Master of Education degree (M.Ed.).

The M.Ed. degree in Curriculum and Instruction normally requires a minimum of 33 graduate level semester hours with 60 percent or more of the courses at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are not approved to be part of the master's degree program.



Notes:

- *More credit hours may be required for a concentration in the Foundations & Curriculum Core, which may be substituted for electives or concentration hours*
- *Foundations and Curriculum core for the College Student Affairs concentration is 6 hours minimum (EDF 6481 and EDF 6165), additional hours in the concentration required.*

Core Requirements

Program of Study (9 Credit Hours Minimum)

- EDF 6432 Foundations of Measurement **Credit Hours: 3**
or
- EDF 6481 Foundations of Educational Research **Credit Hours: 3**
- EDG 6627 Foundations of Curriculum and Instruction **Credit Hours: 3**

Psychological/Social Foundations

Choose from list below (See Notes)

- EDF 6211 Psychological Foundations of Education **Credit Hours: 3**
- EDF 6215 Learning Principles Applied to Instruction **Credit Hours: 3 (3 credits for this program)**
- EDF 6217 Behavior Theory and Classroom Learning **Credit Hours: 3 (3 credits for this program)**
- EDF 6354 Human Development and Personality Theories **Credit Hours: 3**
- EDF 6165 Group Processes for Educational Personnel **Credit Hours: 1-3 (3 credits for this program)** (Available only to students in College Student Affairs)
- EDF 6517 Historical Foundations of American Education **Credit Hours: 3**
- EDF 6606 Socio-Economic Foundations of American Education **Credit Hours: 3 (3 credits for this program)**

Electives (6 Credit Hours Minimum)

5000 or 6000 level coursework subject to area advisor approval. These courses are intended to complement the specialization. (Note: Secondary Education: Social Science (CSO) requires 15 hours of electives minimum)

Comprehensive Exam

Comprehensive exam required. Refer to specific concentration for requirements

Concentration Requirements (18 Credit Hours Minimum)

Refer to specific concentration for requirements

In addition to completing the required Major Requirements, students select one of the following concentrations. Minimum hours noted are for the concentration requirements only and do not reflect the total major hours that result.

College Student Affairs



Offered from the Leadership, Counseling, Adult, Career, and Higher Education

The CSA Concentration at the University of South Florida prepares practitioners to work in Student Affairs positions. The learning outcomes for all graduates include: specialized learning in the field, engaging diverse perspectives, strong communication skills, and understanding the complexity of the higher education system. The major is compliant with requirements of the Council for the Advancement of Standards in Higher Education. The curriculum includes theories of human growth and development, environmental influences, and research applied to student affairs practice. The instructional method of relating theory-to-practice is accomplished by involving students in rigorous classroom activity along with internships in specialized areas of student affairs work.

Total Major requirements with this concentration: 42 hours minimum

In addition to the nine hours or core requirements for the Major, students must complete:

Major Core – 9 hours

Concentration Requirements – 30 hours

Electives – 3 hours

Total:

Concentration Requirements (30 Credit Hours Minimum)

- SDS 6042 Introduction of Student Affairs **Credit Hours: 3**
- SDS 6624 Ecology of Campus Life **Credit Hours: 3**
- SDS 6645 Student Development Theory **Credit Hours: 3**
- SDS 6701 Issues in Diversity **Credit Hours: 2 (3 credits for this program)**
- SDS 6703 The Law and Student Affairs **Credit Hours: 3**
- SDS 6030 - Advising and Helping Skills in Student Affairs **Credit(s): 3**
- SDS 6260 Assessment in Student Affairs **Credit Hours: 3**
- EDF 6938 Selected Topics **Credit Hours: 1-4 (3 credits for this program)** (Organization and Administration of Student Affairs)
- SDS 6990 - Trends and Issues in Higher Education and Student Affairs **Credit(s): 3**
- EDF 6944 Field Experience **Credit Hours: 1-4 (3 credits for this program)** (Practicum)

Electives (3 Credit Hours Minimum)

Comprehensive Exam

Early Childhood Education

Offered from the Department of Teaching and Learning

The M.Ed. Degree in Curriculum and Instruction with a concentration in Early Childhood Education is designed for those students who hold a degree in early childhood education or a related field and wish to improve their skills in teaching young children, and prepare to take leadership roles in the field of early childhood education. When previous academic preparation is not in the field of early childhood education, prospective students will be expected to complete undergraduate courses as determined through conference with a faculty advisor upon admission to the major. These undergraduate courses do not apply to the minimum graduate hours required for the major. This major is not a teacher certification preparation major.

Total Major requirements with this concentration: 33 hours minimum

Concentration Course Requirements (9 Credit Hours Minimum)

- EEC 6415 EC: Diversity in Home and School **Credit Hours: 3**
- EEC 6626 EC: Play and Learning **Credit Hours: 3**



- EEC 6678 Research Seminar: Issues and Trends in Early Childhood Education **Credit Hours: 3**

Electives (15 Credit Hours Minimum)

Select a focus in Reading, Teachers Leadership, Positive Behavior Support, or Interdisciplinary Studies and choose four electives:

In addition, select one other electives taken in COED at the 6000 level (3 hours)

Reading Focus

- RED 6544 Cognition, Comprehension, and Content Area Reading: Remediation of Reading **Credit Hours: 3**
- RED 6545 Issues in Vocabulary and Word Study **Credit Hours: 3**
- RED 6540 Assessment in Developing Literacies **Credit Hours: 3**
- RED 6846 Practicum in Reading **Credit Hours: 3**

Teacher Leadership Focus

- EDE 6076 Teacher Leadership for Student Learning **Credit Hours: 3**
- EDE 6486 Teacher Research for Student Learning **Credit Hours: 3**
- EDE 6556 Coaching for Student Learning **Credit Hours: 3**
- EDE 6366 Professional Development for Student Learning **Credit Hours: 3**

Positive Behavior Support Focus

- MHS 6410 Intensive Individualize Positive Behavior Support **Credit Hours: 3**
- MHS 6900 Special Topics in Planning, Evaluation and Accountability **Credit Hours: 1-3 (3 credits for this program)**
(Consultation and Collaboration)
- MHS 6608 Schoolwide Positive Behavior Support **Credit Hours: 3**
- MHS 6605 Addressing Behavior Challenges in Young Children **Credit Hours: 3**

Interdisciplinary Focus

- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**
- EEC 6055 Advocacy and Leadership in Early Childhood Education **Credit Hours: 3**
- EEC 6205 EC: Curriculum and Authentic Assessment **Credit Hours: 3**
- EEC 6525 Early Childhood Program Development and Administration **Credit Hours: 3**
- EEC 6265 Early Childhood Programs and Advanced Curriculum **Credit Hours: 3**

Comprehensive Exam

Students must apply to take their comprehensive exam. Students must be enrolled at least two credit hours during the semester of their comprehensive exam.

Measurement and Evaluation

Offered from the Department of Educational and Psychological Studies



This degree program is designed to prepare mid-level testing and evaluation personnel for employment in school districts, government agencies, commercial test development companies, and program research and evaluation enterprises. The major prepares personnel with specialized skills in test construction, data analysis, major evaluation, and research design.

Total Major requirements with this concentration -37 hours minimum

Major Core (9 Credit Hours Minimum)

see Curriculum Requirements above

Students are required to take both EDF 6481 and EDF 6432 from the Major Core

Concentration Requirements (22 Credit Hours Minimum)

Note: Both EDF 6432 and EDF 6481 from the Major Core must be taken, one of which fulfills a Core requirement and the other fulfills a Concentration requirement.

- EDF 6461 Foundations of Applied Evaluation **Credit Hours: 3**
- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**
- EDF 7408 Statistical Analysis for Educational Research II **Credit Hours: 4**
- EDF 6491 - Practicum in Measurement, Evaluation and Research **Credit(s): 3**
- EDF 7488 Problems in Educational Data Analysis **Credit Hours: 2**
- EDG 6931 Selected Topics in Education **Credit Hours: 1-4 (3 credits for this program)** (Special Topics: Introduction to Qualitative Methods)

Elective in Instructional Technology selected from the following:

- EME 6613 Development of Technology-Based Instruction **Credit Hours: 3**
- EDF 6284 Problems in Instructional Design for Computers **Credit Hours: 3**
- EME 6930 Programming Languages for Education **Credit Hours: 3**
- EME 6207 Web Design **Credit Hours: 3**
- OR a course recommended by the academic advisor

Electives (6 Credit Hours Minimum)

see Curriculum Requirements above

Comprehensive Exam:

Students must perform satisfactorily on a written comprehensive examination taken on completion of coursework or during the last semester of enrollment in the major. Students must be enrolled for a minimum of two graduate hours during the semester in which this examination is taken.

Secondary Education: Biology

Offered from the Department of Teaching and Learning

This concentration is intended for experienced/certified educators (broadly defined to include not only teachers but all those working in educational agencies, educational publishing, supervision and administration, technology agencies, and so forth) as well as individuals, who hold an undergraduate degree in some field relevant to the area of specialization, interested in advanced study of education but who



are *not* seeking teacher certification. The aim is to provide advanced preparation for professional educators who are willing to apply what they learn to the creation, implementation, and evaluation of effective instructional programs. Accredited by NCATE.

Total Major requirements with this concentration: 33 hours minimum

Concentration Requirements (18 Credit Hours Minimum)

18 hours in the area of emphasis, to include courses in content and/or the teaching of this content one of which must be:

- SCE 6634 Current Trends in Secondary Science Education **Credit Hours: 3**

Secondary Education: Chemistry

Offered from the Department of Teaching and Learning

This concentration is intended for experienced/certified educators (broadly defined to include not only teachers but all those working in educational agencies, educational publishing, supervision and administration, technology agencies, and so forth) as well as individuals, who hold an undergraduate degree in some field relevant to the area of specialization, interested in advanced study of education but who are *not* seeking teacher certification. The aim is to provide advanced preparation for professional educators who are willing to apply what they learn to the creation, implementation, and evaluation of effective instructional programs. Accredited by NCATE.

Total Major requirements with this concentration: 33 hours minimum

Concentration Requirements (18 Credit Hours Minimum)

18 hours in the area of emphasis, to include courses in content and/or the teaching of this content one of which must be:

- SCE 6634 Current Trends in Secondary Science Education **Credit Hours: 3**

Secondary Education: English

Offered from the Department of Teaching and Learning

This concentration is intended for experienced/certified educators (broadly defined to include not only teachers but all those working in educational agencies, educational publishing, supervision and administration, technology agencies, and so forth) as well as individuals, who hold an undergraduate degree in some field relevant to the area of specialization, interested in advanced study of education but who are *not* seeking teacher certification. The aim is to provide advanced preparation for professional educators who are willing to apply what they learn to the creation, implementation, and evaluation of effective instructional programs. Accredited by NCATE.

Total Major requirements with this concentration: 33 hours minimum

Concentration Requirements (18 Credit Hours Minimum)

18 hours in the area of emphasis, to include courses in content and/or the teaching of this content one of which must be:

- LAE 6637 Current Trends in Secondary English Education **Credit Hours: 3**

Secondary Education: Mathematics

Offered from the Department of Teaching and Learning

The Concentration in Secondary Education in Mathematics Education is a flexible major intended to improve the skills of the classroom



teacher. The major will be planned with the student's advisor. At least 60 percent of the major hours must be at the 6000 level. Accredited by NCATE.

Total Major requirements with this concentration: 33 hours minimum

Concentration Requirements (18 Credit Hours Minimum)

18 hours in the area of emphasis, to include courses in content and/or the teaching of this content one of which must be:

- MAE 6136 Current Trends in Secondary Mathematics Education **Credit Hours: 3**

Secondary Education: Physics

Offered from the Department of Teaching and Learning

The Concentration in Secondary Education in Physics is a flexible major intended to improve the skills of the classroom teacher. The major will be planned with the student's advisor. At least 60 percent of the major hours must be at the 6000 level.

Total Major requirements with this concentration: 33 hours minimum

Concentration Requirements (18 Credit Hours Minimum)

18 hours in the area of emphasis, to include courses in content and/or the teaching of this content one of which must be:

- SCE 6634 Current Trends in Secondary Science Education **Credit Hours: 3**

Secondary Education: Social Science

Offered from the Department of Teaching and Learning

This Concentration does not include teaching certification. Individuals interested in certification should consult the Master of Arts in Teaching in Social Science Education. This concentration is designed for educators who have at least two years of relevant experience in the field, typically, teachers certified in social science education with a baccalaureate degree from a College of Education. The aim is to provide advanced preparation in the theories and practices of social studies educators. Accredited by NCATE.

Total Major requirements with this concentration: 36 hours minimum

Concentration Requirements (21 Credit Hours Minimum)

- SSE 5946 Practicum in Social Science Education **Credit Hours: 3**
- SSE 6932 Selected Topics in Social Science Education **Credit Hours: 3**
- SSE 6932 Selected Topics in Social Science Education **Credit(s): 3**
- SSE 6636 Trends in Secondary Social Science Education **Credit Hours: 3**

Electives:

- Taken in COEDU and/or CAS at the 5000 or 6000 level **Credit(s): 15**

Comprehensive Exam



The Comprehensive exam is taken while enrolled in SSE 6636 Trends in Secondary Social Science Education. Consult the Major website, http://www.coedu.usf.edu/main/departments/seced/SSE/SSE_HomePage.html, or the major's coordinator for specific requirements.

Secondary Education: TESOL

Offered from the Department of Teaching and Learning

This concentration is designed for professionals who have at least two years of relevant experience in the field, typically, teachers certified in social science education with a baccalaureate degree from a College of Education. Within the M.Ed. framework, the degree is an individually planned major based on the student's background and professional goals.

Concentration Admission Requirements

Requirements for all applicants include:

- Minimum GPA of 3.0 upper division undergraduate coursework
- Proof of 2 years of relevant educational or professional experience as judged by major faculty
- Proof of teaching certification

Total Major requirements with this concentration: 33 hours minimum

Concentration Requirements (18 Credit Hours Minimum)

18 hours in the area of emphasis, to include courses in content and/or the teaching of this content

Comprehensive Exam

A comprehensive exam must be taken in the College of Education at the completion



Curriculum and Instruction, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

- Career and Workforce Education (Dept: Leadership, Policy and Lifelong Learning)
- Counselor Education (Dept: Leadership, Policy and Lifelong Learning)
- Early Childhood Education (Dept: Teaching and Learning)
- Educational Psychology (Dept: Ed and Psych Studies)
- Elementary Education (Dept: Teaching and Learning)
- English Education (Dept: Teaching and Learning)
- Higher Education, Administration (Dept: Leadership, Policy and Lifelong Learning)
- Instructional Technology (Dept: Ed and Psych Studies)
- Interdisciplinary Education (College-wide)
- Literacy Studies (Dept: Teaching and Learning)
- Mathematics Education (Dept: Teaching and Learning)
- Measurement & Evaluation (Dept: Ed and Psych Studies)
- Science Education (Dept: Teaching and Learning)
- Social Science Education (Dept: Teaching and Learning)
- Special Education (Dept: Teaching and Learning)
- Teacher Education (Dept: Teaching and Learning)

This major shares core requirements with the Ed.D. in Educational Program Development program.

Contact Information

College: Education

Contact Information: <http://www.grad.usf.edu/majors>

The Curriculum and Instruction major is only offered in conjunction with a concentration area. Please see the area of concentration (listed alphabetically) to determine whether the Curriculum and Instruction degree is available in your area of interest.

Major Research Area

Information available by accessing the concentration areas, listed alphabetically in the Catalog.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A master's degree from an accredited university in education, a related professional field, or the equivalent bachelors and/or graduate degrees from a foreign institution
- Current Resume or Vita outlining education, work/teaching experience, publications, presentations, etc.
- Graduate Record Examination (GRE) scores for Verbal, Quantitative, and Writing.
- Three Academic References from individuals who can testify to your academic abilities and potential for success in a doctoral program.
- A personal statement and interview with the program faculty, writing samples, and work references upon request.



Curriculum Requirements

Total Minimum Hours: 59 credit hours post-masters

- **Shared Core Requirements– 6 Credit Hours**
- **Research Methods, Measurement and Foundations – 10 credit hours minimum**
- **Concentrations – 10 Credit Hours Minimum**
- **Cognate or Electives – 9 Credit Hours Minimum**
- **Dissertation - 4 Credit Hours Minimum**
- **Remaining hours – 20 Credit Hours Minimum (through additional research courses, concentration courses, electives, and dissertation)**

Note - students who enter without a master's in Adult Education must take ADE 6080.

Please be advised that programs of study are designed by the graduate faculty in concert with each individual student and that the major and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

Shared Core Requirements (6 Credit Hours)

Required for all students in this major.

- EDG 7067 Philosophies of Inquiry **Credit Hours: 3**
- EDF 7410 Design of Systematic Studies in Education **Credit Hours: 3**

Research Methods, Measurement and Foundations (10 Credit Hours Minimum)

Students complete a minimum of ten (10) credit hours of required research methods, statistics/measurement, tools, and foundations coursework from the list below, selected in consultation with the advisor, or alternative selections, including qualitative and quantitative methodology courses with approval of advisor.

- ECT 7791 Research Seminar in Vocational, Technical, and Adult Education **Credit Hours: 3**
- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**
- EDF 6705 Gender and the Educational Process **Credit Hours: 3**
- EDF 7118 Lifespan Development **Credit Hours: 3**
- EDF 7138 Adolescent Development **Credit Hours: 3**
- EDF 7145 Cognitive Issues in Instruction **Credit Hours: 3**
- EDF 7357 Applications of Developmental Theories **Credit Hours: 3**
- EDF 7359 Resilience in Human Development **Credit Hours: 3**
- EDF 7408 Statistical Analysis for Educational Research II **Credit Hours: 4**
- EDF 7437 Advanced Educational Measurement I **Credit Hours: 3**
- EDF 7438 Advanced Educational Measurement II **Credit Hours: 4**
- EDF 7477 Qualitative Research in Education Part I **Credit Hours: 4**
- EDF 7478 Qualitative Research in Education Part II **Credit Hours: 4**
- EDF 7484 Statistical Analysis for Educational Research III **Credit Hours: 4**
- EDF 7485 Theory and Practice of Program Evaluation **Credit Hours: 3**
- EDF 7493 Systems Approaches for Program Planning, Evaluation, and Development **Credit Hours: 3**
- EDF 7586 Classics in Educational Research **Credit Hours: 3**
- EDF 7682 Education in Metropolitan Areas **Credit Hours: 3**



- EDF 7940 Practicum in Educational Planning, Evaluation, and Development **Credit Hours: 1-8**
- EDG 7667 Analysis of Curriculum and Instruction **Credit Hours: 3**
- EDG 7692 Issues in Curriculum and Instruction **Credit Hours: 3**
- EDH 7225 Curriculum Development in Higher Education **Credit Hours: 3**

Concentration Requirements (10 Credit Hours Minimum)

Students select one of the following concentrations.

Career and Workforce Education (18 Credit Hours)

Prepares leaders, researchers, university faculty and related personnel to serve in the broad field of Career and Workforce Education.

Course Requirements:

- ECT 6766 Emerging Workplace Competencies **Credit Hours: 3**
- ECW 7066 Foundations and Philosophy of Vocational, Technical and Adult Education **Credit Hours: 3**
- ECW 7195 Comparative Study of Career Workforce Education Systems **Credit Hours: 3**
- ECW 7105 Vocational and Adult Education Program Planning and Implementation **Credit Hours: 3**
- ECW 7167 Career Development in Career and Workforce Education Change **Credit Hours: 3**
- ECW 7168 Instructional Development for Vocational, Technical, and Adult Education **Credit Hours: 3**

Counselor Education (18 Credit Hours)

This concentration is a research and theory intensive experience designed to provide a balance of intellectual and experiential learning resulting in professional educators who have multiple competencies as researchers, theorists, and problem-solvers in human growth and development. The doctoral major emphasizes research and theory as opposed to clinical skill development and is designed primarily for students who wish to pursue careers in academic institutions.

Major Research Areas: Career development, clinical supervision, mental health counseling, and multicultural counseling.

Course Requirements:

- MHS 6311 Online Services in Counseling and Helping Professions **Credit Hours: 3**
- MHS 7401 Advanced Counseling: Theories and Practicum **Credit Hours: 4**
- MHS 7610 Supervision: Theories and Practicum **Credit Hours: 4**
- MHS 7740 Survey Course in Planning, Evaluation and Accountability **Credit Hours: 3**
- MHS 7930 Advanced Seminar in Counselor Education **Credit Hours: 2**
- SDS 7830 Advanced Internship in Counselor Education **Credit Hours: 2-8**
- EDG 7931 Selected Topics **Credit Hours: 1-4**
 - Multicultural and Social Justice (4 Credit Hours)*
 - Cognitive Behavioral (3 Credit Hours)*
 - Practicum in Supervisors of Counseling (3 credit Hours)*
 - Proposal Preparation (3 Credit Hours)*
 - Advanced Practicum in Counseling (4 Credit Hours)*

Early Childhood Education (30 Credit Hours)



This concentration promotes scholarly and multidisciplinary inquiry that further empowers advanced graduate students through the development of knowledge, skills, and dispositions to assume roles as leaders, advocates, and scholars in the development and implementation of high quality and innovative early childhood practices. The major provides a sound theoretical background that is integrally linked to the practice of Early Childhood Education in a diverse, global community with an emphasis on child advocacy and social justice.

Course Requirements:

- EEC 7056 Leadership and Advocacy: Issues Affecting Young Children **Credit Hours: 3**
- EEC 7057 Critical Perspectives in Early Childhood Education **Credit Hours: 3**
- EEC 7306 Teaching and Learning in Early Childhood **Credit Hours: 3**
- EEC 7416 Sociocultural Approaches to Working with Children and Families **Credit Hours: 3**
- EEC 7317 ICT in the Early Years **Credit Hours: 3**
- EEC 7627 Arts & Aesthetics in Early Childhood Education **Credit Hours: 3**
- EDG 7938 Advanced Graduate Seminar: Introduction to Research **Credit Hours: 3**
- EDG 7939 Advanced Graduate Seminar: Research in Progress **Credit Hours: 3**
- EDH 7325 Supervised Teaching in Childhood Ed & Literacy Studies I **Credit Hours: 3**
- EDH 7326 Supervised Teaching in Childhood Ed & Literacy Studies II **Credit Hours: 3**

Educational Psychology (24 Credit Hours)

This concentration will prepare graduates to be conscientious researchers who apply the scientific method specifically to real-world educational problems. Primary concentration goals are: (1) to engage students in cutting-edge collaborative research; (2) to provide a solid foundation that enables students to integrate theory, research, and practice and fosters a commitment to excellence in research and scholarship; and (3) to help students acquire a deep understanding of human development and learning for the preparation of future educators and educational professionals in all contexts.

Course Requirements:

- EDF 7357 Applications of Developmental Theories **Credit Hours: 3**
- EDF 7145 Cognitive Issues in Instruction **Credit Hours: 3**
- EDF 7265 Psychology of Oral and Written Language Development **Credit Hours: 3**
- EDF 7359 Resilience in Human Development **Credit Hours: 3**
- EDF 7947 Research Practicum **Credit Hours: 1** (Taken during the first 4 semesters)
- EDF 7930 Professional Seminar **Credit Hours: 1** (Taken during the first 4 semesters)
- EDF 7946 Supervised Experience in College Teaching **Credit Hours: 1**

Students Choose 1 of the 2 courses:

- EDF 7118 Lifespan Development **Credit Hours: 3**
- EDF 7138 Adolescent Development **Credit Hours: 3**

Elementary Education (42 Credit Hours)

Prepares scholars to understand elementary practice through research and innovation that unites community engagement and rigorous intellectual inquiry.

- EDE 7206 Critical Analysis of Curriculum in Elementary Schools **Credit Hours: 3**



- EDE 7481 Teacher Education Seminar **Credit Hours: 3**
- EDG 7046 Trends and Issues in Educational Policy: Literacy and Teacher **Credit Hours: 3**
- EDG 7938 Advanced Graduate Seminar: Introduction to Research **Credit Hours: 3**
- EDG 7939 Advanced Graduate Seminar: Research in Progress **Credit Hours: 3**
- EDH 7325 Supervised Teaching in Childhood Ed & Literacy Studies I **Credit Hours: 3**
- EDH 7326 Supervised Teaching in Childhood Ed & Literacy Studies II **Credit Hours: 3**

Select four courses from the following (11 Credit Hours Minimum):

- EEC 7317 ICT in the Early Years **Credit Hours: 3**
- EEC 7627 Arts & Aesthetics in Early Childhood Education **Credit Hours: 3**
- EEC 7416 Sociocultural Approaches to Working with Children and Families **Credit Hours: 3**
- EEC 7056 Leadership and Advocacy: Issues Affecting Young Children **Credit Hours: 3**
- EDG 7931 Selected Topics **Credit Hours: 1-4**
Working in Schools (3 Credit Hours)
- EDE 7327 Differentiated Supervision & Teacher Professional Development **Credit Hours: 3**

English Education (12 Credit Hours)

Course Requirements:

The following four seminars are required (12 credit hours minimum):

- LAE 7735 Advanced Seminar in English Education **Credit Hours: 3-15**
Language and Literacy (3 Credit Hours)
Teacher Education (3 Credit Hours)
Writing (3 Credit Hours)
Research (3 Credit Hours)

And select from the following (9 credit hours minimum)

- ESE 7343 Teaching and Learning in the Content Area **Credit Hours: 3**
- ESE 7346 Collegiate Teaching in Secondary Education **Credit Hours: 3**
- EDG 7937 Graduate Seminar **Credit Hours: 1-4** *Advanced Seminar in Secondary Education (3-6 Credits)*
- LAE 6906 Independent Study in English Education **Credit Hours: 1-6**
- LAE 7910 Directed Research in English Education **Credit Hours: 1-19 (12 Credit Hours)*** **3 hours repeated with LAE 7735 Advanced Seminar in English Education each semester. This course engages students in the establishing a current active research/scholarly agenda that leads toward independent scholarship and successful, timely completion of the doctoral degree.*

Higher Education, Administration (36 credit Hours)

The Higher Education Administration concentration is a research degree that prepares individuals interested in teaching, research, and policy positions in both community colleges and universities.

Course Requirements:

The following seven (7) courses (21 credit hours) are required:

- EDH 7057 Introduction to Research Studies in Higher Education **Credit Hours: 3 ***
- EDH 7203 Curriculum and Instruction in Higher Education **Credit Hours: 3**
- EDH 7040 Students in Postsecondary Education **Credit Hours: 3**
- EDH 6661 Organizational Theory and Leadership in Higher Education **Credit Hours: 3**
- EDF 7530 History of Higher Education in the United States **Credit Hours: 3**



- EDH 7405 Policy and Legal Dimensions in Higher Education **Credit Hours: 3**
- EDH 7935 Higher Education Capstone Seminar **Credit Hours: 3**
*Must be taken early after admitted to the major

Student then select a minimum of 15 credit hours from the following:

Specialization courses to be chosen from the courses below in consultation with the student's doctoral committee. At least nine (9) credit hours must be at the 7000 level or in 6000 level courses for which advanced graduate standing is a pre-requisite.

NOTE: If student selects EDG 7931 Special Topics, include the course title for the specific section taken.

- EDH 7509 Governance and Finance in Higher Education **Credit Hours: 3**
- EDH 7063 Globalization in Higher Education **Credit Hours: 3**
- EDH 7644 Using Data in Higher Education **Credit Hours: 3**
- EDH 6081 Junior College in American Higher Education **Credit Hours: 3**
- EDF 7145 Cognitive Issues in Instruction **Credit Hours: 3**
- EDH 7007 Gender and Higher Education **Credit Hours: 3**
- EDH 6906 Independent Study **Credit Hours: 1-19**
- EDG 7931 Selected Topics **Credit Hours: 1-4**
- EDH 6947 Internship in Higher Education **Credit Hours: 1-6**
- EDH 7910 Directed Research **Credit Hours: 1-19**
- ADE 6385 The Adult Learner **Credit Hours: 3**
- SDS 7640 Student Affairs Administration **Credit Hours: 3**
Approved courses in another college or department **Credit Hours 3-12**

Instructional Technology (18 Credit Hours)

This Concentration is designed to prepare students to become skilled researchers who can design and conduct original research in the field of instructional technology. Our graduates assume academic and leadership positions in higher education, corporations, the military, and other venues, where research and best practices are integrated to advance new knowledge and to improve learning and performance.

Course Requirements (12 credit hours):

- EDF 7145 Cognitive Issues in Instruction **Credit Hours: 3 ***
- EME 6613 Development of Technology-Based Instruction **Credit Hours: 3**
- EME 7938 Computer-Augmented Instructional Paradigms in Education **Credit Hours: 3**
- EME 7939 Research in Technology-Based Education **Credit Hours: 3**

**With major professor approval, a substitution can be made to another ed psych course.*

Choice of ONE of the following adult education or foundation courses - 3 hours

- ADE 6070 International Adult Education **Credit Hours: 3**
- ADE 6385 The Adult Learner **Credit Hours: 3**
- EDF 6217 Behavior Theory and Classroom Learning **Credit Hours: 3**
- EDF 6736 Education, Communication, and Change **Credit Hours: 3**
- EDF 6765 Schools and the Future **Credit Hours: 3**
- EDF 6883 Issues in Multicultural Education **Credit Hours: 3**
- EDF 7357 Applications of Developmental Theories **Credit Hours: 3**
- EDF 7530 History of Higher Education in the United States **Credit Hours: 3**



- EDF 7586 Classics in Educational Research **Credit Hours: 3**
- EDH 7063 Globalization in Higher Education **Credit Hours: 3**
- EDH 7225 Curriculum Development in Higher Education **Credit Hours: 3**
Students may substitute an alternative 6000/7000 level course with approval of their major professor.

Teaching Practicum (3 credit hours):

- ESE 7346 Collegiate Teaching in Secondary Education **Credit Hours: 3**
***One to three credits of directed research (EME 7910) may be substituted for doctoral students with documented substantiated teaching experience with adult learners, as determined by the student's major professor.*

Interdisciplinary Education (24 Credit Hours)

Provides a framework to support innovative, boundary-crossing inquiry among students and faculty across campus. Designed to foster research that approaches problems in education from interdisciplinary perspectives, the major allows students who have academic backgrounds and interests that span multiple disciplines to construct an individualized program of study grounded in at least two fields, one of which may be outside the College of Education. Students who have the ability and desire to integrate study and research between at least two disciplines/fields to address questions in education broadly defined are encouraged to apply to the Interdisciplinary track.

Course Requirements

Courses are selected with the advisor and must be at the 7000-level, distributed across two/three disciplines, with the approval of the doctoral committee. (6000-level courses may be taken as part of the electives)

Literacy Studies (33 Credit Hours)

Prepares research scholars with expertise in literacy processes, literacy instruction, and literacy teacher education. This concentration features in-depth exploration of literacy theories and research, the broad study of systematic inquiry skills, apprenticeship learning of various research methodologies, the development of personalized strands of research, and a mentored residency experience in literacy studies.

This Concentration is available for students starting in fall semesters only.

Course Requirements:

- EDG 7046 Trends and Issues in Educational Policy: Literacy and Teacher **Credit Hours: 3**
- LAE 7718 Linguistic Foundations in Literacy **Credit Hours: 3**
- LAE 7745 Literary Theory and Research in Children's Literature **Credit Hours: 3**
- LAE 7794 Survey of Research on Writing Development and Instruction **Credit Hours: 3**
- LAE 7868 Symbolic Processes of Multimedia Literacies **Credit Hours: 3**
- RED 7745 Research in Reading Instruction **Credit Hours: 3**
- EDG 7931 Selected Topics **Credit Hours: 1-4**
- RED 7798 Research in Transdisciplinary Texts and Teaching **Credit Hours: 3**
- EDG 7938 Advanced Graduate Seminar: Introduction to Research **Credit Hours: 3**
- EDG 7939 Advanced Graduate Seminar: Research in Progress **Credit Hours: 3**
- EDH 7325 Supervised Teaching in Childhood Ed & Literacy Studies I **Credit Hours: 3**



- EDH 7326 Supervised Teaching in Childhood Ed & Literacy Studies II **Credit Hours: 3**

Mathematics Education (33 Credit Hours)

The Mathematics Education Doctoral Program is committed to providing doctoral students with the skills, knowledge and dispositions that can ensure they are able to contribute to the global mathematics education community and connect with other researchers.

Secondary Education Core - 9 hours minimum

Course Requirements:

Students complete the secondary education requirements (9 credit hours minimum):

- ESE 7343 Teaching and Learning in the Content Area **Credit Hours: 3**
- EDF 6938 Selected Topics **Credit Hours: 1-4**
Advanced Seminar in Secondary Education (3 Credit Hours) (required)
- PHC 7944 Advanced Applied Practice Experiences **Credit Hours: 1**

And the following (24 credit hours minimum):

- MAE 7138 Assessment in Mathematics Education **Credit Hours: 3**
 - MAE 7146 Curriculum History/Research Mathematics Education **Credit Hours: 3 ***
 - MAE 7655 Technology Issues in Mathematics Education **Credit Hours: 3**
 - MAE 7794 Preparing Teachers of Mathematics, K-12 **Credit Hours: 3**
 - MAE 7796 Research Issues in Mathematics Education **Credit Hours: 3**

 - MAE 7945 Practicum in Mathematics Education **Credit Hours: 3**
- OR**
- MAE 7910 Directed Research in Mathematics Education **Credit Hours: 1-19** (3 Credits for this program)

Measurement and Evaluation (12 Credit Hours)

The intent of the concentration is to develop personnel to work in colleges and universities, research centers, school districts, government agencies, commercial test publishing, and major evaluation enterprises. Skills in inquiry and methodology are developed within a programmatic context that encourages growth of knowledge about education, considers important principles of research, and provides an applied setting in which these elements can be fused into professional applications.

Course Requirements - 12 Credit Hours

Note: Students, in consultation with their major professor and committee, will select one area of focus (Statistics, Measurement, Evaluation, or Research Methods) and complete the twelve hours in that area. Students take courses from the list below, or another graduate course approved by the advisor.

- EDF 7412 Application of Structural Equation Modeling in Education **Credit Hours: 3**
- EDF 7474 Applied Multilevel Modeling in Education **Credit Hours: 3**
- EDF 7498 Analysis for Single-Case Experiments **Credit Hours: 3**
- PHC 7059 Advanced Survival Data Analysis **Credit Hours: 3**
- EDF 7439 Foundations of Item Response Theory **Credit Hours: 3**
- EDF 7469 Introduction to Computer-Based Testing **Credit Hours: 3**
- EDF 6938 Selected Topics **Credit Hours: 1-4**
Rausch Model (3 Credit Hours)
Factor Analysis (3 Credit Hours) (Proposed course)
- EDG 7931 Selected Topics **Credit Hours: 1-4**
- EDF 7477 Qualitative Research in Education Part I **Credit Hours: 4**
- EDF 7491 Consulting and Project Management Skills for Evaluators **Credit Hours: 3**



- EDF 7462 Metaevaluation **Credit Hours: 3**
- EDF 7493 Systems Approaches for Program Planning, Evaluation, and Development **Credit Hours: 3**
- PHC 6545 Evaluation in Mental Health **Credit Hours: 3**
EDG 7931 Selected Topics Survey Methods (3 Credit Hours)
EDF 7477 Qualitative Research in Education Part I (3 Credit Hours)
- PHC 6725 Focus Group Research Strategies **Credit Hours: 3**
- ANG 6766 Research Methods in Applied Anthropology **Credit Hours: 3**

Science Education (33 Credit Hours)

The Curriculum and Instruction degree is offered with a concentration area in Science Education. Candidates' programs of study are planned with the approval of a faculty committee based upon previous experience and future goals.

Course Requirements:

Students complete the secondary education requirements (9 Credit Hours minimum):

- ESE 7343 Teaching and Learning in the Content Area **Credit Hours: 3**
- EDF 6938 Selected Topics **Credit Hours: 1-4**
Advanced Seminar in Secondary Education (3-6 Credits)
- ESE 7346 Collegiate Teaching in Secondary Education **Credit Hours: 3**

In extenuating circumstances, major may substitute an independent study course if needed by a student. However no more than 3 credit hours in this category can be independent study hours.

And complete the following (24 credit hours minimum):

- SCE 7895 Philosophy and Nature of Science **Credit Hours: 3**
- SCE 7076 Historical, Social, and Epistemological Foundations of Science Education **Credit Hours: 3**
- SCE 7345 Theories and Practices of Science Teaching and Learning **Credit Hours: 3**
- SCE 7636 Advanced Trends in Science Education **Credit Hours: 3**
- SCE 7697 Socioscientific Issues in Science Education **Credit Hours: 3**
- SCE 7740 Doctoral Research in Science Education **Credit Hours: 3**
- SCE 7910 Directed Research in Science Education **Credit Hours: 1-19**
Graduate Courses from related major areas may be used in this area with permission of individual's doctoral major committee.

Social Science (33 Credit Hours)

The concentration in Social Science Education prepares scholars and curriculum specialists for leadership in the social studies field.

Course Requirements:

Students complete the secondary education requirements (6 credit hours minimum):

- ESE 7343 Teaching and Learning in the Content Area **Credit Hours: 3**
- EDF 6938 Selected Topics **Credit Hours: 1-4**
Advanced Seminar in Secondary Education (3-6 Credits)
- ESE 7346 Collegiate Teaching in Secondary Education **Credit Hours: 3**
- SSE 7910 Directed Research in Social Sciences Education **Credit Hours: 1-9**

Note: Under special circumstances, major may substitute an independent study course if needed by a student. However, no more than 3 credit hours in this category can be independent study hours.

And complete the following (15 credit hours minimum):



- SSE 7700 Social Science Curriculum and Instruction Issues **Credit Hours: 3**
The requirements are as follows or as recommended by the doctoral coordinator, graduate faculty, or doctoral committee, and approved by the college and/or Office of Graduate Studies.
- SSE 7710 Research in Social Science Education **Credit Hours: 3**
- SSE 7720 Social Science Education Technological Innovations **Credit Hours: 3**
- SSE 7730 Philosophy of Social Science Education **Credit Hours: 3**
- SSE 7945 Applied Research in Social Science Education **Credit Hours: 2**

*SSE 7945 is repeated three times throughout the program. This course engages SSE students in establishing an active research/scholarly agenda that leads toward independent scholarship and successful, timely completion of the doctoral degree.

Special Education 25 Credit Hours)

Focuses on urban special education and university-school partnerships in preparing researchers, teacher educators, and school leaders. Graduates will have an informed perspective on ethical issues in the interactions of race, ethnicity, social class, gender, and disability; and the impact of these issues on special education policies, research, teacher education and services.

Graduates will demonstrate knowledge and skills in the design, implementation and maintenance of university-school partnerships; an interdisciplinary grounding in and respect for multiple genres and methods of inquiry; the ability to conceptualize, plan and conduct research; and the ability to value the conceptual and analytical skills of a scholar. The Department emphasizes interdisciplinary research and development. Faculty members in several departments have joint appointments in special education.

Course Requirements:

- EEX 7744 Curriculum and Instructional Issues in Urban Special Education **Credit Hours: 3**
- EEX 7815 Research Seminar **Credit Hours: 1-9**
- EEX 7429 Special Education Teacher Education **Credit Hours: 3**
- EEX 7428 Teacher Education in Special Education: Conceptual **Credit Hours: 3**
- EDA 7238 Special Education Law and Policy Issues **Credit Hours: 3**
- EEX 7425 Special Education Leadership Studies **Credit Hours: 1-2**
- EEX 7745 Historical, Ethical, and Disciplinary Foundations of Special Education **Credit Hours: 3**
- EEX 7746 Ethics in Teacher Education and Teacher Development **Credit Hours: 3**

Teacher Education (18 Credit Hours)

Prepares students to become scholars and practitioners in the field of teacher education. The Concentration engages students in course work, research, and professional experience in school and community settings. Graduates will have the knowledge and skills needed to excel in the scholarships of teaching, service and research.

Course Requirements:

- EDE 7481 Teacher Education Seminar **Credit Hours: 3** (*Students will enroll at least three times*)

At least three other courses approved by the student's major committee such as:

- EDG 7066 Critical Pedagogy in Teacher Education **Credit Hours: 3**
- ESE 7220 Curriculum Frameworks in Teacher Education **Credit Hours: 3**
- ESE 7346 Collegiate Teaching in Secondary Education **Credit Hours: 3**
- EDF 7946 Supervised Experience in College Teaching **Credit Hours: 1**
- EDE 7327 Differentiated Supervision & Teacher Professional Development **Credit Hours: 3**
- EDG 7035 Design and Evaluation of Teacher Education Programs **Credit Hours: 3**

Or other courses approved by doctoral committee



And a research practicum in the Area of Emphasis (6 hours minimum):

- EDG 7941 Practicum in Educational Innovation **Credit Hours: 1-4** or alternative approved by the advisor.

Students will be expected to engage in research activities under the direction of an Area of Emphasis faculty member that will lead to the development of the students' knowledge and skills needed to write literature reviews, and design and conduct research studies.

Electives or Cognate (9 Credit Hours Minimum)

Students complete either elective graduate coursework, or a cognate (sub-specialization), in their concentration discipline area and should support the student's research objectives. Selections must be made in consultation and with approval of the advisor/doctoral committee. Some concentrations may have a specific list of courses to choose from. Check with the department to see what is available.

Residency

Students must be registered for nine (9) hours of coursework, two semesters in a twelve-month period. The expectation is that students will work no more than half time employment during the residency period.

Qualifying Examination

Students must demonstrate satisfactory performance on the Doctoral Qualifying Examination before admission to candidacy. (See current College of Education Graduate Handbook, and consult with doctoral graduate major advisor). Additional information is below:

Math Education Concentration

The Qualifying Exam is composed of three distinct sections that represent expected areas of student competency (Synthesis of Math Education Research, Utilization of Professional Expertise, and Evaluation and Design of Research Studies). A student's cognate area is viewed as connected to his or her math experiences, rather than a separate and unrelated area. As such, the cognate will be embedded into the QE as appropriate.

Measurement and Evaluation Concentration

The student will be required to take the doctoral comprehensive qualifying examination on completion of formal coursework as outlined on the approved program of study (or in the semester in which all formal coursework will be completed). The student in consultation with his/her major professor and/or doctoral committee will select one of the two options for the qualifying examinations: a) a 12-hour written examination administered over a 3-day period that will integrate the work in the student's area of concentration, or b) the development of a comprehensive scholarly paper that requires the student to demonstrate a depth of understanding and appropriate application of principles in the areas of measurement, evaluation, research design, statistical analyses, and educational foundations.

Dissertation (4 Credit Hours Minimum)

Contact the Concentration Director for specific dissertation requirements.

Students must be admitted to candidacy before they are permitted to enroll in dissertation hours. Students may be required to take additional hours depending on the course of study and or academic deficiencies.



Students complete dissertation hours in the area of their concentration. Below are the minimums. Students may be required to take additional hours:

- ADE 7980 Dissertation **Credit Hours: 2-30** (2-18 Credit Hours)
- ECT 7980 Dissertation **Credit Hours: 2-30** (12 Credit Hours)
- EDE 7980 Dissertation **Credit Hours: 2-30** (4 Credit Hours)
- EDF 7980 Dissertation **Credit Hours: 2-30** (12-18 Credit Hours)
- EDG 7980 Dissertation **Credit Hours: 2-19** (6-12 Credit Hours)
- EDH 7980 Dissertation **Credit Hours: 2-30** (12 Credit Hours)
- EEC 7980 Dissertation **Credit Hours: 2-30** (4 Credit Hours)
- EEX 7980 Dissertation **Credit Hours: 2-30** (12 Credit Hours)
- EME 7980 Dissertation **Credit Hours: 2-30** (6 Credit Hours)
- LAE 7980 Dissertation **Credit Hours: 2-30** (4 Credit Hours)
- MAE 7980 Dissertation **Credit Hours: 2-30** (4 Credit Hours)
- MHS 7980 Dissertation **Credit Hours: 2-30** (24 Credit Hours)
- RED 7980 Dissertation: Doctoral **Credit Hours: 2-30** (4 Credit Hours)
- SCE 7980 Dissertation **Credit Hours: 2-30** (4 Credit Hours)
- SSE 7980 Dissertation in Social Science Education **Credit Hours: 2-24** (4 Credit Hours)



Educational Program Development, Ed.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

- Educational Innovation

This major shares core requirements with the Ph.D. in Curriculum and Instruction.

Contact Information

College: Education

Contact Information: <http://www.grad.usf.edu/majors>

Refer to individual concentrations for Contact Information.

The Doctor of Education degree is available in Educational Program Development with concentrations Educational Innovation and Elementary Education. The focus of this degree program is on the improvement of educational practice. The Ed.D. is considered a practitioner's degree that emphasizes practical applications of research.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

A master's degree from an accredited university in education, a related professional field, or a specialization for which the student plans to develop educational programming or the equivalent bachelors and/or graduate degrees from a foreign institution.

Application Documents:

- Three letters of recommendation to be submitted directly to the program. These must be from professional sources, and, if possible, should include at least one reference from a USF faculty member.
- Evidence of two years of successful professional experience in education or an education-related setting.
- Personal statement of no more than 1000 words that includes two parts:

Part 1:

- A description of your professional goals and how they are aligned with the program's conceptual framework (described below). How would the Ed. D. help you to meet these goals? (about 300 words)
- Conceptual Framework: The program is designed to prepare professional practitioners for leadership and stewardship of the profession. We aim to help you develop strong habits of mind in the dimensions of practice of inquiry, agency, ethics of care, and reflective thinking:
- Practice of inquiry: Scholar-practitioners will use practical research and applied theories as tools for positive social innovations. They will be able to identify complex problems of practice as well as design, implement, and evaluate sustainable innovations in their own professional settings.
- Agency: Scholar-practitioners will develop a commitment to equity and social justice in order to serve as agents of change for diverse students, groups, and communities.
- Ethic of care: Scholar-practitioners will work collaboratively with cohort peers, faculty, and stakeholders in the profession to respond to diverse community interest and needs in ways that show compassion and care.



- Reflective thinking: Scholar-practitioners will reflect critically and ethically on identifying complex problems of practice; developing, implementing, and evaluating sustainable innovations in their own professional settings; and implications this may have for serving as agents of change for diverse students, groups, and communities.

Part 2:

A description of an issue or problem of practice—a persistent issue that you have experienced before in your professional setting or is currently relevant to your professional work—that you would like to improve with the dissertation research. Provide a specific example and describe how you have approached the situation and worked with the people involved in order to resolve it (about 700 words).

The application documents will be reviewed to select a group of applicants who will be offered an admissions interview and the final candidates for admission will be selected from the interview process.

Curriculum Requirements

Total Minimum Hours: 54 credit hours post-master's

- **Shared Core Requirements – 3 Credit hours**
- **Statistics/Measurement/Research Design/Applied Research– 9 Credit hours minimum**
- **Psychological and Social Foundations– 3 Credit hours minimum**
- **Concentration – 15 Credit hours minimum**
- **Electives – 15 Credit hours minimum**
- **Dissertation – 9 Credit hours minimum**

Shared Core Requirements (3 Credit Hours)

- EDG 7069 Sustainable Innovation in Education **Credit Hours: 3**

Statistics/Measurement/Research Design/Applied Research (9 Credit Hours Minimum)

Selection of three quantitative, qualitative, applied, or action research courses chosen in consultation with advisor.

- EDF 7408 Statistical Analysis for Educational Research II **Credit Hours: 4**
- EDF 7410 Design of Systematic Studies in Education **Credit Hours: 3**
- EDF 7438 Advanced Educational Measurement II **Credit Hours: 4**
- EDF 7484 Statistical Analysis for Educational Research III **Credit Hours: 4**
- EDF 7493 Systems Approaches for Program Planning, Evaluation, and Development **Credit Hours: 3**
- EDF 7477 Qualitative Research in Education Part I **Credit Hours: 4**
- EDF 7478 Qualitative Research in Education Part II **Credit Hours: 4**

Psychological and Social Foundations Requirement (3 Credit Hours)

Course focused on equity, diversity and social justice chosen in consultation with advisor.

- EDF 7145 Cognitive Issues in Instruction **Credit Hours: 3**
- EDF 6938 Selected Topics Credits 1-4 *Taken as Organization Development in Educational Institutions (4 Credits for this program)*
- EDF 6883 Issues in Multicultural Education **Credit Hours: 3**
- EDF 7934 Seminar in Social Foundations of Education **Credit Hours: 3**



- EDF 6938 Selected Topics **Credit Hours: 1-4 (3 credits for this program)** (History of Higher Education in the United States)

Concentration Requirements (15 Credit Hours Minimum)

Students select from the following concentrations:

Educational Innovation

The aim of the Concentration is to foster the development of effective and judicious innovators with the capacity to plan, develop, evaluate, and revise educational improvement efforts in their institutional settings.

Students complete 15 credit hours from the following, or other graduate course as approved by the Graduate Director.

- EDG 7695 Problems of Practice in Education **Credit Hours: 3**
- EDG 7936 Graduate Seminar: Leader-Scholar Community **Credit Hours: 3 (6 credits for this program)**
- EDG 7941 Practicum in Educational Innovation **Credit Hours: 1-4 (6 credits for this program)**

Electives (15 Credit Hours Minimum)

At least four additional 6000 or 7000 level courses selected in consultation with advisor.

Recommended courses:

- ESE 7343 Teaching and Learning in the Content Area **Credit Hours: 3**
- EDG 7207 Transforming the Curriculum **Credit Hours: 3**

Doctoral Qualifying Exam

Students complete one of three options near the completion of coursework. The options are:

- Literature Review
- Portfolio
- Analytical Paper/Essay

Dissertation (9 Credit Hours Minimum)

Students must be admitted to doctoral candidacy before they are permitted to enroll in dissertation hours.

- EDG 7980 Dissertation **Credit Hours: 2-19 (9 credits for this program)**

Graduate Certificate



Academic Advising Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

Graduate Certificate in Academic Advising is intended for practicing academic advisors and those who plan to enter the field. The curriculum addresses an array of relevant topics including student development theory, issues of diversity, and other challenging characteristics of students who participate in academic advising services. Upon completion of the certificate program, student should be able to:

- Promote student success
- Apply various approaches based on individual student need
- Understand institutional and government laws and policies that affect their ability to advise effectively
- Refer students to institutional and community resources
- Recognize differences among students and respond to student issues accordingly

Course Location/Delivery

Online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

- SDS 6648 Introduction to Academic Advising **Credit Hours: 3**
- SDS 6645 Student Development Theory **Credit Hours: 3**
- SDS 6700 Advising Diverse Populations **Credit Hours: 3**
- SDS 6702 Issues in Academic Advising **Credit Hours: 3**

Electives

None.



Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Autism Spectrum Disorder Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This 12-hour program of study provides teachers with additional expertise in the field of educating students with autism spectrum disorders (ASD). It is anticipated that these courses will meet the requirements of the Florida Department of Education's Endorsement in the field of autism. Emphasis is placed on assessment and diagnosis of ASD, understanding the nature of autism, the use of assistive and instructional technology and positive behavior support. Meaningful application of knowledge and skills is required through the extensive field-based experiences.

Course Location/Delivery

The Certificate is offered fully online. Students will need a headset with a microphone for real-time meetings, access to high-speed internet, email, Word, PowerPoint, PDF files and a media video player.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

In addition applicants should have approximately 30 credit hours of coursework in education or a related field (speech-language pathology, physical therapy, occupational therapy that deals with students with severe/profound disabilities).

Preference will be given to professional practitioners who have minimum one-year experience working with students with Autism Spectrum Disorder.

Application Process

To learn about the application process, and to access the application, please review our **application process**.

Pre-Requisites

None are required.

Curriculum Requirements (12 Credit Hours)

- EEX 6234 Identification and Assessment of Individuals with Low Incidence Intellectual Disabilities and ASD **Credit Hours: 3**
- EBD 6246 Educating Students with Autism **Credit Hours: 3**
- EEX 6619 Positive Behavior Support Low Incid. Intellectual Disab. & ASD **Credit Hours: 3**
- EEX 6767 Assistive Technology for Students with Low Incidence **Credit Hours: 3**

Time Limit / Average Time to Completion

The approximate time to complete the Certificate is three years.



Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



College Teaching Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The 12-credit hour Certificate in College Teaching is designed to assist prospective and current college and university faculty to acquire skills and knowledge important for effective teaching in higher education. Participants will gain understanding of the nature of the institutions in which they teach; acquire effective teaching methods and strategies; learn about the faculty role in curriculum development; and study other topics valuable for success as a faculty member.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also have:

M.S. or B.S. with substantial teaching experience at the college level.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None.

Requirements of this Certificate (12 Credit Hours)

The program consists of a total of 12 credit hours. There are 9 hours of required core courses:

- EDH 6081 Junior College in American Higher Education **Credit Hours: 3**
or
- EDH 6051 Higher Education in America **Credit Hours: 3**
- EDH 6938 Seminar in College Teaching **Credit Hours: 3**
- EDH 7225 Curriculum Development in Higher Education **Credit Hours: 3**

Electives

Select one:



- EDF 6883 Issues in Multicultural Education **Credit Hours: 3**
- EME 6457 Distance Learning **Credit Hours: 3**
- EME 6936 Applications of Computers as Educational Tools **Credit Hours: 3**
- EME 6936 Applications of Computers as Educational Tools **Credit(s): 3** (Internet in Education)
- EME 6936 Applications of Computers as Educational Tools **Credit(s): 3** (Enhancing Instruction)
- ADE 6385 The Adult Learner **Credit Hours: 3**

Time Limit

3 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Cybersecurity Awareness and Education Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

Broadly recognized as a critical service supporting the modern workforce and educational institutions, cybersecurity is no longer the domain of a single individual or department. Emerging from a renewed focus on fostering cultures of cyber security within schools, and families, there is an ever increasing need for trained cybersecurity educators and awareness specialists who focus on the unique needs of educational settings. The Cybersecurity Awareness & Education graduate certificate provides students with an advanced introduction to cybersecurity awareness and training, preparing them for roles as leaders and educators throughout K – 12 schools and higher education.

Course Location/Delivery

The Certificate is offered fully online and at the Tampa campus.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Open to any undergraduate degree, but preference for degrees in Education, Computer Science or related programs.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (12 Credit Hours)

- EME 6016 Digital Citizenship and Online Safety **Credit Hours: 3**
- RED 6449 Literacy and Technology **Credit Hours: 3**
- EDG 6436 Cybersecurity in the Schools **Credit Hours: 3**

And one of the following:

- EME 6053 Internet in Education **Credit Hours: 3**
- EME 5317 Technology Leadership in Education **Credit Hours: 3**

Time Limit / Average Time to Completion

5 years



Credit Toward Graduate Degree

Course credits earned in the certificate may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Disabilities Education: Severe/Profound Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This certificate supports teachers and related professionals to work more effectively with students who have labels of severe/profound disabilities in sensitively accessing general education curriculum in meaningful ways. It is anticipated that these courses will meet the requirements of the Florida Department of Education's Endorsement in the field of Intellectual Development Disabilities (Severe/Profound). Collaborative and multidisciplinary working is a theme through each course as a way to increase student access to general education curriculum in the least restrictive environment.

Course Location/Delivery

Fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Applicants must hold an earned bachelor's degree from an accredited institution and approximately 30 undergraduate credit hours of coursework in education or a related field (speech and language pathology, physical therapy, occupational therapy that deals specifically with students who have severe/profound disabilities).

Preference will be given to professional practitioners who have a minimum one year experience working with students with severe/profound learning disabilities.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (12 Credit Hours)

- EEX 6234 Identification and Assessment of Individuals with Low Incidence Intellectual Disabilities and ASD **Credit Hours: 3**
- EEX 6476 Curriculum and Instruction for Students with Low Incidence Disabilities **Credit Hours: 3**
- EEX 6065 Collaborative Transition and Career Planning for Students with Low Incidence Disabilities **Credit Hours: 3**
- EEX 6767 Assistive Technology for Students with Low Incidence **Credit Hours: 3**

Credit Toward Graduate Degree



Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>

Time Limit / Average Time to Completion

Five years.



Diversity in Education Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Certificate addresses diverse issues in education by social class, race/ethnicity/culture, gender, sexuality and exceptionality. Additionally, the courses define policy and practice problems associated with education and health/welfare in an increasingly pluralistic society.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

A total of 12 credit hours are required There are (7) eight hours of required coursework:

- EDF 6883 Issues in Multicultural Education **Credit Hours: 3**
- EDF 6705 Gender and the Educational Process **Credit Hours: 3**

Electives

Select two courses, at least five (5) hours, from the following list,

- EEC 6415 EC: Diversity in Home and School **Credit Hours: 3**
- FLE 6167 Cross-Cultural Issues in Teaching ESOL **Credit Hours: 3**
- MHS 6420 Multicultural Counseling with Diverse Populations **Credit Hours: 3 ***
- SDS 6701 Issues in Diversity **Credit Hours: 2**
- RED 6656 Literature for a Diverse Society **Credit Hours: 3**
- ECW 6696 Equity and Access in the New Economy **Credit Hours: 3**



- ADE 7677 Emerging Trends in Adult Education: Critical Race Theory **Credit Hours: 3**
- EDF 6863 Contemporary Issues and Trends in International Education **Credit Hours: 3**
- EDF 6697 Learning and Linguistic Diversity in a Transnational Context **Credit Hours: 3**
**these courses have pre-requisites and may not be available to all students*

Courses may be substituted with approval of the Certificate Director

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



eLearning Design and Development Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The eLearning Design and Development Graduate Certificate is for professionals who wish to develop and apply current multimedia skills to effectively present and learn how to incorporate multimedia into interactive, educational, online applications. Certificate course credit may apply toward degree programs. Courses are available evenings or, in some cases, on-line through the Internet.

Course Location/Delivery

Partial, Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Requirements (12 Credit Hours)

Students complete the following required courses (9 credit hours) and then choose one elective (3 Credit hours):

- EDF 6284 Problems in Instructional Design for Computers **Credit Hours: 3**
- EME 6457 Distance Learning **Credit Hours: 3** Or EME 7458
- EME 6613 Development of Technology-Based Instruction **Credit Hours: 3**

Electives

- EME 6208 Interactive Media **Credit Hours: 3**
- EME 6215 Instructional Graphics **Credit Hours: 3**
- EME 6209 Digital Video **Credit Hours: 3**
- EME 6207 Web Design **Credit Hours: 3**
- EME 6235 Technology Project Management **Credit Hours: 3** Or EME 7631
- EME 6936 Applications of Computers as Educational Tools **Credit Hours: 3**

*Prerequisite: EDF 6284

Time Limit



2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



ESOL Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This professional certificate in ESOL is designed specifically for those who already hold a bachelor's degree and teaching certification. The certificate provides the curriculum needed for those who wish to specialize in teaching English language learners in the K-12 setting and also fulfills the education requirements for the ESOL endorsement.

Course Location/Delivery

Fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (15 Credit Hours)

- FLE 6167 Cross-Cultural Issues in Teaching ESOL **Credit Hours: 3**
- TSL 6133 Curriculum and Instructional Materials Development **Credit Hours: 3**
- TSL 6390 Instructional Methods and Strategies for Teaching ESOL **Credit Hours: 3**
- TSL 6253 Applied Linguistics for Teaching ESOL **Credit Hours: 3**
- TSL 6470 Assessment and Progress Management for Teaching ESOL **Credit Hours: 3**

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Evaluation Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

The Graduate Certificate in Evaluation provides an opportunity for graduate students and other professionals to gain a working understanding of contemporary evaluation theory and practice; tools and techniques used in evaluation; standards of quality for professional evaluation practice; evaluation ethics; appropriate evaluation uses; and impact of evaluation on decision making. The certificate is designed to prepare professionals for staff positions in evaluation, in schools or non-school organizations. Participants will be immersed in diverse real-world learning experiences from the beginning of the certificate that meet their specific interest and needs.

Course Location/Delivery

USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (13 Credit Hours)

- EDF 6461 Foundations of Applied Evaluation **Credit Hours: 3**
- EDF 6941 Practicum in Measurement, Evaluation, and Research **Credit Hours: 1-4**
- EDF 7462 Metaevaluation **Credit Hours: 3**

And one of the following:

- EDF 7477 Qualitative Research in Education Part I **Credit Hours: 4**
- EDF 6481 Foundations of Educational Research **Credit Hours: 3**
- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**
- EDF 6432 Foundations of Measurement **Credit Hours: 3**

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.



Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Exceptional Student Education Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The 12-hour Exceptional Student Education Graduate Certificate program provides teachers or individuals in related fields with the opportunity to develop advanced skills and expertise in the area of special education. Emphasis is placed on effective instructional and assessment practices, creating effective learning environments, and collaborating with others to meet the needs of exceptional students.

Course Location/Delivery

The Certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

In addition, applicants should have approximately 30 credit hours of coursework in education or a related field, or hold a professional teaching credential.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- EEX 6222 Advanced Psychoeducational Assessment of Exceptional Students **Credit Hours: 3**
- EEX 6248 Instructional Approaches for Exceptional Populations **Credit Hours: 3**
- EEX 6612 Management and Motivation of Exceptional and At-Risk Students **Credit Hours: 3**
- EEX 6732 Consultation and Collaboration in Special Education **Credit Hours: 3**

Time Limit / Average Time to Completion

Five years

Credit Toward Graduate Degree

Course credits earned in the certificate may be applied to a graduate degree with departmental approval.



Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Florida Digital/Virtual Educator Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Florida Digital/Virtual Educator graduate certificate program is designed for teachers, media specialists, technology specialists, administrators and other educational professionals who recognize the importance of integrating technology into K-12 curriculum in both classroom and online learning environments. Learn how to transform learning environments and support student learning in ways that could not be done without technology. All courses are available online through the Internet. Certificate course credit may apply toward the M.Ed. degree program. The Florida Virtual School has endorsed this certificate, and the FLVS will give students who earn this certificate preferential hiring for virtual teaching positions.

Course Location/Delivery

Online, Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

Select three courses (9 Credit hours) from the groupings below, and then one elective (3 Credit hours).

- EME 5403 Computers in Education **Credit Hours: 3 OR**
- EME 6425 Technology for School Management **Credit Hours: 3**

- EME 6457 Distance Learning **Credit Hours: 3 OR**
- EME 7458 Research in Distance Learning **Credit Hours: 3**

- EME 6053 Internet in Education **Credit Hours: 3**

Electives



- EME 6055 Current Trends in Instructional Technology **Credit Hours: 3**
- EME 6208 Interactive Media **Credit Hours: 3**

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Foreign Language Education: Culture and Content Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This certificate provides students with an understanding of Foreign Language Education curriculum, methods of instruction, and the 6-12 classroom environments. This program is designed for students who hold a bachelor's degree in a foreign language, or who are native speakers of a language other than English and wish to begin their preparation for the teaching profession.

This certificate leads to the State of Florida teaching endorsement for Foreign Languages.

Location/Delivery

USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

- Have completed approximately 30 credit hours of undergrad or graduate course work in the teaching fields of foreign language OR
- Have native-like proficiency of the foreign language acceptable to the program faculty (e.g., Spanish, French, German, Italian, Latin, Japanese, Chinese)

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Three years.

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- FLE 6665 Current Trends in Secondary Foreign Language Education **Credit Hours: 3**
Select one of the following courses:
- FLE 6932 Selected Topics in Second Language Acquisition **Credit Hours: 3**
Curriculum Materials Development: Special Project (3 Credit Hours)
Integrating Technology in the Foreign Language Classroom for Intermediate Users (3 Credit Hours)
- FLE 5895 Dual Language Education **Credit Hours: 3**
- FLE 5291 Technology in the Foreign Language Classroom **Credit Hours: 3**



Depending on what you would like to specialize in, you may want to choose the remaining two courses from ESOL, Second Language Acquisition, Applied Language, Foreign Language Education, Spanish, German, French, or Latin specific courses. For a representative sampling of these courses see below:

- LIN 6720 Second Language Acquisition **Credit Hours: 3**
- LIN 6932 Selected Topics **Credit Hours: 1-4**
Language and a Movie (3 Credit Hours)
- LIN 6601 Sociolinguistics **Credit Hours: 3**
- TSL 5440 Language Testing **Credit Hours: 3**

For the French Connoisseur:

- FRW 5934 Selected Topics **Credit Hours: 1-3**
French Women Writers
African Images in Francophone Film

For the German Connoisseur:

- GEW 5934 Selected Topics **Credit Hours: 1-3**
Fantastic Films Early German Cinema
German Popular Film

For the Latin Connoisseur:

- LNW 5934 Selected Topics **Credit Hours: 4**
Roman Elegiac Poets (Proposed LNW 6325)
Vergil (Proposed LNW 6665)

For the Spanish Connoisseur:

- SPW 5135 Colonial Spanish American Literature **Credit Hours: 3**
- SPW 5934 Selected Topics **Credit Hours: 3**
Hispanic Women Writers

For the Chinese Connoisseur:

- EDG 6931 Selected Topics in Education **Credit Hours: 1-4**
Chinese Teaching Methods
China Today
- HIS 6939 Seminar in History **Credit Hours: 3**
History of China

For the ESOL Teacher:

- TSL 5085 ESOL I - Theory and Practice of Teaching English Language Learners **Credit Hours: 3**
- TSL 6253 Applied Linguistics for Teaching ESOL **Credit Hours: 3**
- TSL 6470 Assessment and Progress Management for Teaching ESOL **Credit Hours: 3**
- TSL 6390 Instructional Methods and Strategies for Teaching ESOL **Credit Hours: 3**
- TSL 6133 Curriculum and Instructional Materials Development **Credit Hours: 3**
- FLE 6167 Cross-Cultural Issues in Teaching ESOL **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Foreign Language Education: Professional Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This graduate certificate is intended for students with undergraduate degrees who are considering a career as a teacher of foreign languages. The coursework gained through this professional training option may be used toward an M.A.T.; for certification for K-12 foreign language education directly by the Florida Department of Education (FDOE); or by a school district training program.

This certificate leads to the State of Florida teaching endorsement for Foreign Languages.

Location/Delivery

This certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

- Have completed approximately 30 credit hours of undergrad or graduate course work in the teaching fields of foreign language OR
- Have native-like proficiency of the foreign language acceptable to the program faculty (e.g., Spanish, French, German, Italian, Latin, Japanese, Chinese)

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Five Years

Curriculum Requirements (15 Credit Hours)

- TSL 6390 Instructional Methods and Strategies for Teaching ESOL **Credit Hours: 3**
- RED 6365 Disciplinary Literacies and Reading **Credit Hours: 3**
- TSL 6470 Assessment and Progress Management for Teaching ESOL **Credit Hours: 3**
- ESE 5342 Teaching the Adolescent Learner **Credit Hours: 3**
- ESE 5344 Classroom Management for a Diverse School and Society **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Instructional Technology: Web Design Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Web Design graduate certificate is designed for professionals working in private industry or education who wish to enhance their ability to plan, design, create, and publish effective interactive, multimedia, educational web applications. Certificate course credit may apply toward the M.Ed. degree program. All courses are available online through the Internet. The Florida Virtual School has endorsed this certificate, and the FLVS will give students who earn this certificate preferential hiring for instructional designer positions.

Course Location/Delivery

Online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Requirements of this Certificate (12 Credit Hours)

- EME 6207 Web Design **Credit Hours: 3**
- EME 6215 Instructional Graphics **Credit Hours: 3**
- EME 6930 Programming Languages for Education **Credit Hours: 3**

Electives

Choose one of the following

- EME 6208 Interactive Media **Credit Hours: 3**
- EDF 6284 Problems in Instructional Design for Computers **Credit Hours: 3**
- EME 6930 Programming Languages for Education **Credit Hours: 3**

Time Limit

2 years



Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Leadership in Developing Human Resources Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

Certificate for developing leadership skills in human resources.

Course Location/Delivery

USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- ADE 6385 The Adult Learner **Credit Hours: 3**
- ADE 6160 Program Management in Adult Education **Credit Hours: 3**
And select 9 credit hours from:
 - ADE 6370 Human Resource Development **Credit Hours: 3**
 - ADE 6360 Methods of Teaching Adult Education **Credit Hours: 3**
 - ADE 6161 Curriculum Construction in Adult Education **Credit Hours: 3**
 - PHC 6161 Health Finance Applications **Credit Hours: 3**
 - ADE 6198 Effective Continuing Education for Professionals **Credit Hours: 3**
 - EME 6055 Current Trends in Instructional Technology **Credit Hours: 3**
 - ADE 6946 Practicum in Adult Education **Credit Hours: 2-6**
 - EDH 6051 Higher Education in America **Credit Hours: 3**
 - EDH 7225 Curriculum Development in Higher Education **Credit Hours: 3**

Time Limit / Average Time to Completion

Five Years



Credit Toward Graduate Degree

Credit hours from this Certificate may be eligible to apply toward a graduate degree. Check with the department for information.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Post Master's Leadership in Higher Education Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This Graduate Certificate provides leadership strategies, skills and knowledge for those who are employed in the Community College/ Higher Education or seek employment in this environment. The Certificate is designed to meet the needs of individuals interested in senior level leadership positions. Those who have graduate degrees in other fields of study will find this leadership certificate of special value. The program also provides opportunities to improve practice for those who currently serve in leadership positions. Issues such as the "emerging undergraduate college" from the current community college structure will be presented. Current faculty who wish to seek faculty leadership roles within the community college/higher education institution will also benefit from this program of studies.

Course Location/Delivery

Partial

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (9 Credit Hours)

9 Credit hours

- EDH 6081 Junior College in American Higher Education **Credit Hours: 3**
or
- EDH 6051 Higher Education in America **Credit Hours: 3**
- EDH 7632 Leadership in Higher Education **Credit Hours: 3**
- EDH 7636 Organizational Theory and Practices in Higher Education **Credit Hours: 3**

Electives



Select one elective course from the following list

- EDH 7505 Higher Education Finance **Credit Hours: 3**
or
- EDH 7633 Governing Colleges and Universities **Credit Hours: 3**
or
- EDG 7931 Selected Topics **Credit Hours: 1-4**

Time Limit

3 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Qualitative Research Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

The Qualitative Research Graduate Certificate provides an opportunity for graduate students and other professionals to gain a broad and in depth knowledge of qualitative reach, with an emphasis on the designs and methods used in studies of educational programs, processes, initiatives, settings and policies. Qualitative research is increasingly conducted and influential in educational research across disciplines, including adult, technology, science, public health, higher, Pre-K–12, and mental health education; and in other science, social science, and health disciplinary areas with educative aims.

Course Location/Delivery

USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None

Curriculum Requirements (13 Credit Hours)

- EDF 7478 Qualitative Research in Education Part II **Credit Hours: 4**

Nine (9) Credit Hours of additional coursework are required. Students may choose from the following list, or substitute a graduate course approved by the Graduate Certificate Director.

- EDF 7426 Action Research in Schools **Credit Hours: 3**
- EDG 7368 Visual Research Methods in Education **Credit Hours: 3**
Any graduate course in qualitative research (3 Credit Hours)

Time Limit / Average Time to Completion

The Certificate can be completed in two years.

Credit Toward Graduate Degree



Course credits earned in the certificate may be applied to a graduate degree with departmental approval.



Reading Endorsement Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

The Reading Endorsement Certificate program is designed to meet the needs of teachers K-12 who want to increase their effectiveness in the teaching of reading. This program addresses the needs expressed by Governor Bush and the Florida State Department of Education. The program includes five classes which will provide an in depth view of reading research, theory and the application on sound and current scientific research.

Completion of the required 15 credit hours qualifies individuals with a current FL teaching certificate to earn the Florida Reading Endorsement. Please contact the Literacy Studies Program Coordinator for further information.

Location/Delivery

This certificate is offered fully-online as well as the Tampa and Sarasota campuses.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

In addition to your completed application form, transcripts, resume and letter of interest, you will need to submit the following documents:

- Copy of current FL teaching certificate

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Student must comply with standard rules for graduate students

Pre-Requisites

None

Curriculum Requirements (15 Credit Hours)

- RED 6749 History and Foundations in Reading and STEM Disciplines **Credit Hours: 3**
- RED 6544 Cognition, Comprehension, and Content Area Reading: Remediation of Reading **Credit Hours: 3**
- RED 6545 Issues in Vocabulary and Word Study **Credit Hours: 3**
- RED 6540 Assessment in Developing Literacies **Credit Hours: 3**



- RED 6846 Practicum in Reading **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



School Counseling (Post Master's) Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered partially online.

The Graduate Certificate in School Counseling is designed to meet the curriculum needs of:

1. Mental health or career counselors who wish to pursue a Florida Certification as a School Counselor.
2. Counselors with a Masters or higher who seek to broaden their knowledge about school counseling issues.
3. Professional counselors who have relocated to Florida and may lack some of the courses required by the State of Florida for school counselor certification.

The coursework covers a broad range of school counseling issues. The curriculum is based on the standard of the Florida Department of Education. The Graduate Certificate provides the academic experiences and courses required by the state for certification as a school counselor. Upon completion of the certificate, students are eligible to apply for school counselor certification (a post-masters requirement). If admitted to the program, it is strongly suggested that you have the FLDOE do a transcript review. It is the student's responsibility to see if they need courses in addition to the certificate program for certification.

Please Note: Florida Department of Education requires an ESOL and a Reading course that are offered as electives in the USF College of Education for this certificate but may be available through school districts.

Location/Delivery

This certificate is offered at the Tampa campus and partially online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements. Master's degree in Counseling or Counselor Education with a minimum 3.00 GPA.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Certificate should be completed within 3 years

Pre-Requisites

Prerequisite courses (list of specific courses or a certain number of credits in a discipline):

The following courses must be at the graduate level and be at least 3 semester hours each:

- Appraisal (equivalent to MHS 6200)



- Career Development (equivalent to MHS 6340)
- Human Development (equivalent to EDF 6354)
- Counseling Theories (equivalent to MHS 6400)
- Group Counseling (equivalent to MHS 6509)
- Legal and Ethical (equivalent to MHS 6700)
- Multicultural/Special Populations Counseling (equivalent to MHS 6420)
- Counseling practicum (equivalent to MHS 6800)

Curriculum Requirements (16 Credit Hours Minimum)

- MHS 6418 School Counselor Accountability and Curriculum **Credit Hours: 3**
- EDF 6217 Behavior Theory and Classroom Learning **Credit Hours: 3**
- MHS 6601 Consultation for the Counseling Profession **Credit Hours: 3**
- SDS 6820 Internship in School Counseling **Credit Hours: 3-6**

Electives - 6 credit hours

- EDG 6931 Selected Topics in Education **Credit Hours: 1-4**
ESOL For School Counselors (3 Credit Hours)
- RED 6748 Teacher Research Methods in Reading **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Teacher Leadership for Student Learning Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The purpose of this certificate program is to develop the knowledge, skills and abilities that teachers need to learn from their own teaching as well as facilitate the learning of others in their school to generate student learning. This rigorous program prepares participants to meet the Teacher Leader Model Standards and the National Staff Development Council's standards (now called Learning Forward) for engaging in and facilitating professional learning. Each certificate course will require participants to become familiar with the theoretical framework and research related to professional learning, engage in and facilitate in professional learning activities, generate data that represents the learning activity, and reflect on their own experiences to make evidence based decisions about teaching and learning.

Course Location/Delivery

Online, Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

Current teaching cert

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

Courses for the certificate must be taken sequence

- EDE 6076 Teacher Leadership for Student Learning **Credit Hours: 3**
- EDE 6556 Coaching for Student Learning **Credit Hours: 3**
- EDE 6366 Professional Development for Student Learning **Credit Hours: 3**
- EDE 6486 Teacher Research for Student Learning **Credit Hours: 3**

Time Limit

2 Years



Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Teaching of Digitally-Enhanced Middle Grades Mathematics Education Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

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.

Tuition assistance is available thanks to the generous support of Progress Energy.

Location/Delivery

Campus

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Curriculum Requirements

This Certificate Requires 15 Credit Hours

Core Requirements (15 Credit Hours)

- MAE 6356 Teaching of Pre-Secondary School Mathematics **Credit Hours: 3**
- RED 6544 Cognition, Comprehension, and Content Area Reading: Remediation of Reading **Credit Hours: 3**
- MAE 6654 Teaching Technology-Enhanced Algebra in the Middle Grades **Credit Hours: 3**
MAE 6337 Teaching Technology-Enhanced Geometry in the Middle Grades **Credit Hours: 3**
- MAE 6650 Technology-Enhanced Numerical Analysis in the Middle Grades **Credit Hours: 3**

Time Limit / Average Time to Completion

Time Limit - 5 years

Credit Toward Graduate Degree



For any teacher interested in pursuing a master's degree program beyond the certificate, four of the five courses from the certificate program are transferable to the master's degree with approval of the program advisor.



Department of Educational and Psychological Studies

Major



Exercise Science, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Strength and Conditioning
Health and Wellness

Contact Information

College: Education

Department: Educational and Psychological Studies

Contact Information: <http://www.grad.usf.edu/majors>

The M.S. in Exercise Science provides an in-depth study of applied human physiology and how it relates to athletic performance and health and wellness. The purpose of the program is to prepare fitness professionals that are equipped to meet the needs of adults in their pursuit of improved health and performance. Exercise science professionals work with adults in leadership positions in areas such as strength & conditioning, worksite health promotion, commercial and community fitness/wellness, hospital/clinical rehabilitation, personal fitness training, and sports performance. In addition, graduates of this program will have the educational background to pursue doctoral education and other advanced degree programs. The major offers three options: Exercise Science, Exercise Science with a concentration in Strength & Conditioning, and Exercise Science with a concentration in Health & Wellness.

Major Research Areas

Environmental and Occupational Health/Heat Stress
Legal Liability, Risk Management, and Fitness Safety
Physical Activity Behavior and Adherence
Psychobiology of Exercise
Sports Nutrition and Performance Enhancement
Strength & Conditioning

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Resume
- 2 letters of recommendation
- Letter of intent (please include career goals, any type of experience related to the field and/or research experience).

To be successful in this major, the following pre-requisite courses are recommended: Anatomy & Physiology I, Anatomy & Physiology II, Nutrition, and Exercise Physiology.

Admissions decisions are based on the following: GPA, relevant coursework, experience in the field, letter of intent, research experience, and letters of recommendation. Applicants should be aware that admission into any graduate major is granted on a competitive basis.

Curriculum Requirements

Total Minimum Hours - 33 hours minimum



- **Core – 7 Credit hours**
- **General Track or Concentration – 12 Credit hours**
- **Non-thesis – 14 Credit hours electives**
- **Thesis – 11 Credit hours electives, 3 Credit hours thesis**

Core Requirements (7 Credit Hours Minimum)

- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**
- PET 6534 Research Methods in Exercise Science **Credit Hours: 3**

General Track or Concentration Requirements (12 Credit Hours Minimum)

Students either select one of the following concentrations, or they complete the general track with 12 hours of graduate coursework selected in consultation with their academic advisor.

Strength and Conditioning Concentration

- PET 6098 Topics in Strength and Conditioning **Credit Hours: 3**
- APK 6116 Neuromuscular Aspects of Exercise Physiology **Credit Hours: 3**
- PET 6367 Sports Nutrition and Exercise Metabolism **Credit Hours: 3**
- PET 6389 Fitness Assessment and Prescription **Credit Hours: 3**

Health and Wellness Concentration

- PET 6003 Theories & Models of Health & Physical Activity **Credit Hours: 3**
- APK 6109 Cardiorespiratory Aspects of Exercise Physiology **Credit Hours: 3**
- PET 6388 Physical Activity, Health, and Disease **Credit Hours: 3**
- PET 6389 Fitness Assessment and Prescription **Credit Hours: 3**

Electives (11 Credit Hours Minimum)

14 hours minimum (non-thesis students) or 11 hours minimum (thesis students)

Electives can be selected from the following, or other graduate course as approved by the faculty advisor and graduate program coordinator.

- APK 6109 Cardiorespiratory Aspects of Exercise Physiology **Credit Hours: 3**
- APK 6116 Neuromuscular Aspects of Exercise Physiology **Credit Hours: 3**
- APK 6406 Psychology of Exercise **Credit Hours: 3**
- PET 6086 Lifespan Fitness **Credit Hours: 3**
- PET 6216 Sport Psychology **Credit Hours: 3**
- PET 6003 Theories & Models of Health & Physical Activity **Credit Hours: 3**
- PET 6098 Topics in Strength and Conditioning **Credit Hours: 3**
- PET 6256 Sport in Society: Contemporary Issues **Credit Hours: 3**
- PET 6367 Sports Nutrition and Exercise Metabolism **Credit Hours: 3**
- PET 6388 Physical Activity, Health, and Disease **Credit Hours: 3**
- PET 6494 Legal Aspects of Physical Activity **Credit Hours: 3**
- APK 6511 Science of Physique Enhancement **Credit Hours: 3**



- APK 6431 Stress Management and Mental Performance **Credit Hours: 3**
- APK 6902 Controversies in Exercise and Nutrition Science **Credit Hours: 3**
- PET 6906 Independent Study: Professional Physical Education **Credit Hours: 1-6**
- PET 6910L Research Project in Physical Education **Credit Hours: 1-4**
- PET 6947 Internship in Exercise Science **Credit Hours: 1-6**
- PET 6971 Thesis: Physical Education **Credit Hours: 1-5**

Comprehensive Exam

A comprehensive exam is required. For students in the thesis option, the thesis serves in lieu of the comprehensive exam.

Thesis (3 Credit Hours Minimum)

Thesis is not required but considered as elective hours for those who select to do a thesis. Students interested in registering for thesis credit must have the approval of a faculty member that agrees to serve as the thesis chairperson.

- PET 6971 Thesis: Physical Education **Credit Hours: 1-5**

Non-Thesis

Students in the non-thesis option take an additional 3 hours of electives



Learning Design and Technology, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations

E-learning Design and Development
Cybersecurity Education
Big Data and Learning Analytics
Game-Based Learning and Analytics

Contact Information

College: Education

Department: Educational and Psychological Studies

Contact Information: <http://www.grad.usf.edu/majors>

The field of learning technology is growing rapidly in higher education, industry, and k-12 settings. Nearly all major companies, government agencies, school districts, and universities and colleges, are actively recruiting their own learning technology experts. The M.S. in Learning Design and Technology has a foundation in E-learning with focus opportunities. The major is designed to provide a comprehensive curriculum and intensive training to prepare students for the job market of today and emerging fields of tomorrow in K-12 schools, higher education, industry, and military or other governmental agencies where the design, development, implementation, and evaluation of online learning, game-based learning, cybersecurity education, and learning analytics take place.

Major Research Areas

E-learning design and development; Cybersecurity education; Big data and learning analytics; and Game-based learning and analytics.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Two Letters of Recommendation
- Resume or vita documenting their work and educational experiences to date
- A one-page Goals Statement describing the applicant's motivation for entering the M.Ed. program, what s/he hopes to achieve upon completion of the program, and the number of courses s/he plans to take each semester while in the program.

The College of Education and the University Graduate Admissions office may impose additional requirements. Please be sure to review the admission information and requirements for BOTH the College of Education and the Graduate Admissions office.

Curriculum Requirements

Total Minimum Credit Hours - 33 hours

- Core – 21 Credit hours
- Concentration or Electives – 9 Credit hours
- Capstone – 3 Credit hours

Students either choose one of the concentrations below or complete 9 hours of electives chosen in consultation with the Graduate Director.



Core (21 Credit Hours)

- EDF 6481 Foundations of Educational Research **Credit Hours: 3**
- EME 6055 Current Trends in Instructional Technology **Credit Hours: 3**
- EDF 6284 Problems in Instructional Design for Computers **Credit Hours: 3**
- EME 6457 Distance Learning **Credit Hours: 3**
- EME 6347 Digital Media and Learning **Credit Hours: 3**
- EME 6207 Web Design **Credit Hours: 3**
- EME 6356 Introduction to Big Data and Learning Analytics **Credit Hours: 3**

Concentration Requirements (9 Credit Hours)

E-learning Design and Development

- EME 6419 Motivational Design for Learning Technology **Credit Hours: 3**
- EME 6235 Technology Project Management **Credit Hours: 3**

Choose one:

- EME 6208 Interactive Media **Credit Hours: 3**
- EME 6215 Instructional Graphics **Credit Hours: 3**
- EME 6209 Digital Video **Credit Hours: 3**

Cybersecurity Education

- EME 6016 Digital Citizenship and Online Safety **Credit Hours: 3**
- EDG 6436 Cybersecurity in the Schools **Credit Hours: 3**

Choose one:

- RED 6449 Literacy and Technology **Credit Hours: 3**
- EME 6053 Internet in Education **Credit Hours: 3**
- EME 5317 Technology Leadership in Education **Credit Hours: 3**

Big Data and Learning Analytics

- EME 6348 Predictive Learning Analytics **Credit Hours: 3** (Using big data for understanding student success)
- EME 6346 Data Visualization in Education **Credit Hours: 3** (Using data in reporting)

Choose one:

- EME 6817 Data in Assessment and Accreditation **Credit Hours: 3**
- EME 6614 Games Analytics for Learning **Credit Hours: 3**

Game-Based Learning and Analytics



- EME 6157 Game Design & Development for Learning **Credit Hours: 3**
- EME 6614 Games Analytics for Learning **Credit Hours: 3**

Choose one:

- EME 6215 Instructional Graphics **Credit Hours: 3**
- EME 6209 Digital Video **Credit Hours: 3**
- EME 6930 Programming Languages for Education **Credit Hours: 3**

Electives (9 Credit Hours)

Students who choose electives in lieu of a concentration select 9 hours of graduate coursework in consultation with the Graduate Director.

Capstone (3 Credit Hours)

choose one

- EME 6613 Development of Technology-Based Instruction **Credit Hours: 3**
- EME 6936 Applications of Computers as Educational Tools **Credit Hours: 3** (Internship)

Comprehensive Exam

The portfolio that is part of the Capstone is used in lieu of a comprehensive exam.

During the final semester of the program, each Master's candidate is required to submit an electronic portfolio (E-Portfolio) that highlights his/her Instructional Design/Technology (IDT) abilities, skills, and performance they acquired from the program course work. Through the collection of digital projects/products (aka. course artifacts), Masters' candidates present not only a record of their studies but also their competencies in IDT to potential employers or institutions for doctoral studies. The E-Portfolio may be developed with any Website development services (USF Webspaces or other free hosting services such as google site, Weebly, Wix etc.) where reviewers can access without login credentials. The E-Portfolio takes the place of a comprehensive exam and must address five areas of national standards developed by the Association for Educational Communications & Technology (AECT) in 2012.

Thesis/Non-Thesis

This is a non-thesis program.



School Psychology, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Education

Department: Educational and Psychological Studies

Contact Information: <http://www.grad.usf.edu/majors>

The M.A. degree in School Psychology is offered only when combined with the Ed.S. and/or Ph.D. degrees and cannot be used for certification or licensure as a school psychologist.

Admission Information

Not a terminal M.A. - Admission only through Ed.S. or Ph.D.; see Ed.S. and Ph.D. requirements.

Curriculum Requirements

Total Minimum Hours: 30 Credit Hours

- **Core - 6 Credit Hours**
- **Specialization - 24 Credit Hours**

Note: Students may be required to take additional hours depending on the course of study and or academic deficiencies.

Core Requirements (6 Credit Hours)

- EDF 6217 Behavior Theory and Classroom Learning **Credit Hours: 3**
- EDF 7118 Lifespan Development **Credit Hours: 3**

Additional Required Courses (24 Credit Hours)

Note: Students may be required to take additional hours depending on the course of study and academic deficiencies.

- EDF 6938 Selected Topics **Credit Hours: 1-4** *Taken as Cognitive and Affective Bases of Behavior (3 Credit hours for this program)*
- SPS 6936 Graduate Seminar in School Psychology **Credit Hours: 1-3 (3 credits for this program)**
- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**
- SPS 6197 Psychoeducational Diagnosis and Prescription I **Credit Hours: 4**
- SPS 6198 Psychoeducational Diagnosis and Prescription II **Credit Hours: 4**
- EDF 6288 Instructional Design I **Credit Hours: 3**
- EDF 6213 Biological Bases for Learning Behavior **Credit Hours: 3**



Practicum

Students must complete a school-based practicum consisting of eight (8) clock hours per week for a minimum of 32 weeks (2 semesters) for a total of 256 clock hours.

Comprehensive Exam

Prior to clearance for the MA degree, candidates must satisfactorily complete a portfolio of performance-based accomplishments that is evaluated by the School Psychology faculty.



School Psychology, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Education

Department: Educational and Psychological Studies

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. degree program in School Psychology at the University of South Florida is offered through the College of Education's Educational and Psychological Studies. The Program has been designed specifically for training in school psychology and has been developed to meet all relevant national accreditation standards. The Ph.D. program is fully accredited by the American Psychological Association and fully approved by the National Association of School Psychologists and the Florida Department of Education. Students who complete the School Psychology Training Program at USF automatically meet the academic and field training requirements for certification as a Nationally Certified School Psychologist (N.C.S.P.).

The Ph.D. program in School Psychology is committed to training professionals who have expertise in the depth and diversity of both psychology and education. This training is accomplished within a scientist-practitioner model that emphasizes comprehensive school psychological services using a social and cognitive behavioral learning theory orientation that recognizes the impact of children's individual differences and the importance of multicultural awareness and skills. Graduates of the Ph.D. program move to positions of employment as university faculty and researchers, as psychologists in school, hospital, and agency settings, and as program leaders in applied settings. The program also offers professional development opportunities for practitioners in the field.

Accreditation

Accredited by the American Psychological Association, and Approved by the National Association of School Psychologists.

Major Research Areas

Pediatric School Psychology, Organizational Development and Consultation, Academic Assessment and Intervention, Problem-Solving and Response to Intervention, Multi-Tiered System of Supports, School-Based Mental Health Services, Positive Psychology, Professional and Practice Issues in School Psychology, Behavioral Interventions.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

The School Psychology program admission only occurs in the fall. This is a limited access program, which means that only a limited number of students are able to be accepted each year. Students are considered for this degree on a case-by-case basis. Please contact the Graduate Coordinator prior to applying.

Required Admissions Materials

A complete application includes the following:

If invited for an interview, present self professionally in an oral interview with two or more faculty members and graduate students.

- GRE Scores (Note: Verbal, Quantitative, and Analytical Writing scores are required)



- Statement of professional goals. In a 2-3 page statement, explain your immediate, intermediate, and long term goals, as well as your research interests. Professional goals and research interests must be compatible with the School Psychology Program.
- Three letters of recommendation from professionals who are familiar with your scholarship and work history.
- Demonstrate the ability to write professionally by submitting a scholarly paper completed as part of your prior coursework.

Curriculum Requirements

Total Minimum Hours - 36 credit hours post-specialist

- **Core - 12 Credit Hours**
- **Additional Required Courses - 11 Credit Hours**
- **Area of Emphasis - may require additional coursework beyond the 36 credit hours**
- **Practicum/Internship - 4 Credit Hours Minimum**
- **Dissertation - 9 Credit Hours Minimum**

Note: Students may be required to take additional hours depending on the course of study and/or academic deficiencies.

Core Requirements (12 Credit Hours)

- SPS 7205 Advanced Consultation Processes in School Psychology **Credit Hours: 2-4** (3 Credits for this program)
- SPS 7090 Supervision Processes in School Psychology **Credit Hours: 4**
- SPS 7936 Advanced Seminar in School Psychology **Credit Hours: 1-3** (2 Credits for this program)
- SPS 7701 Advanced Child and Adolescent Psychotherapy **Credit Hours: 2-4**

Additional Required Courses (11 Credit Hours)

- EDF 6938 Selected Topics **Credit Hours: 1-4** (3 Credits for this program)
- EDF 7408 Statistical Analysis for Educational Research II **Credit Hours: 4**
Another course in Research Methods, chosen in consultation with the Graduate Director (3 Credit Hours minimum)
- EDG 7931 Selected Topics **Credit Hours: 1-4**

Area of Emphasis (May Require Additional Coursework)

All doctoral students in School Psychology must specialize in at least one Area of Emphasis. An area of emphasis is defined by course work, practice, research, and internship experiences taken by the student. Possible Areas of Emphasis include, but are not limited to: Pediatric School Psychology, Organizational Development and Consultation, Academic Assessment and Intervention, Problem-Solving and Response to Intervention, Multi-Tiered System of Supports, School-Based Mental Health Services, Positive Psychology, Professional and Practice Issues in School Psychology, Behavioral Interventions.

Previous coursework may be used to satisfy this requirement. Additional courses may be required by the student's Doctoral Committee.

Qualifying Examination

The purpose of the qualifying examination is to evaluate the student's ability to apply and synthesize the skills and knowledge acquired during graduate study. Students must successfully complete the qualifying examination and complete all required coursework before admission to doctoral candidacy.

Tests or Examinations



All students must complete the General Knowledge Exam prior to internship. It is recommended that students take both the General Knowledge Examination and the Professional Education Examination (required for degree completion) at the same time. Both of these requirements should be completed as a part of the Ed.S. Degree. All students are required to take and pass the FTCE School Psychology subject area exam and the National Association of School Psychology Certification Exam (PRAXIS) during the internship year, prior to graduation.

Residency Requirement

Academic residency is defined as registration for at least 9 semester hours, two semesters in a 12-month period.

Practicum and Internship (4 Credit Hours)

- EDG 7931 Selected Topics **Credit Hours: 1-4** *Practicum (2 credits in this program)*
- SPS 6947 Internship **Credit Hours: 1-9** (2 Credits for this program)

Dissertation (9 Credit Hours Minimum)

- SPS 7980 Dissertation **Credit Hours: 2-30** (9 credits for this program)



Department of Language, Literacy, Ed.D., Exceptional Education, and Physical Education

Major



Autism Spectrum Disorder and Intellectual Disabilities, M.A.

Priority Admission Application Deadlines: http://www.grad.usf.edu/programs/search_all.php

This program is offered fully online.

Contact Information

College: Education

Department: Language, Literacy, Ed.D., Exceptional Education, and Physical Education

Contact Information: http://www.grad.usf.edu/programs/search_all.php

The purpose of this online major is to prepare teachers to be highly qualified and provide access to the general curriculum in least restrictive school environments to students with Autism Spectrum Disorder (ASD) and Intellectual Disabilities (InD).

The major benefits the University, local community and the state can be summarized in two ways. In a **quantitative** way, the major meets the need of preparing effective teachers to work with the growing number of students in general and special education who are identified as having ASD and/or InD labels. This is demonstrated through the critical shortage of data at a national and state level and also in the surveys of local school districts to USF. In a **qualitative** way, the major meets the need to prepare effective teachers to work with this group of students that represents a paradigmatic shift in where and how these students learn. Students with ASD and/or InD labels need meaningful access to general education curriculum and their typically developing peers and this major meets this need.

Accreditation:

National Council for the Accreditation of Teacher Education (NCATE).

Major Research Areas

Special Education, Positive Behavior, Intellectual Disabilities, Autism, Spectrum Disorders.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- An earned baccalaureate degree in education or a related field that has a relationship with autism and/or intellectual disabilities from an accredited college of university or the equivalent bachelors and/or graduate degrees from a international institution.
- Scholastic evidence to successfully perform in the academic major.
- A letter of application that addresses why the candidate desires to pursue a master's degree in ASD and InD.
- At least two (2) letters of recommendation from persons who have seen the candidate teach and/or work with children and youth who have labels of ASD and/or InD.

Curriculum Requirements

Total Minimum Hours - 33 Credit Hours

- **Core Requirements - 9 Credit Hours**
- **Additional Required Courses- 24 Credit Hours**

Core Requirements (9 Credit Hours)



- EDF 6481 Foundations of Educational Research **Credit Hours: 3**
- EEX 6732 Consultation and Collaboration in Special Education **Credit Hours: 3**
- EEX 5752 Working with Families: A Pluralistic Perspective **Credit Hours: 3**

Additional Required Courses (24 Credit Hours Minimum)

(Note - Field Experience (15-25 hours) is included as part of the coursework)

- EBD 6246 Educating Students with Autism **Credit Hours: 3**
- EEX 6619 Positive Behavior Support Low Incid. Intellectual Disab. & ASD **Credit Hours: 3**
- EEX 6767 Assistive Technology for Students with Low Incidence **Credit Hours: 3**
- EEX 6234 Identification and Assessment of Individuals with Low Incidence Intellectual Disabilities and ASD **Credit Hours: 3**
- EEX 6065 Collaborative Transition and Career Planning for Students with Low Incidence Disabilities **Credit Hours: 3**
- EEX 6476 Curriculum and Instruction for Students with Low Incidence Disabilities **Credit Hours: 3**
- EEX 6939 Advanced Seminar: Paradigms, Practices, and Policies in Special Education **Credit Hours: 3**
- EEX 6943 Practicum in Exceptional Student Education **Credit Hours: 1-4**

Graduation Requirements: Portfolio System

The Master's Portfolio System is a means through which each master's level student demonstrates his/her competency in the "best practices" of special education. Commensurate with the belief that the merging of research and practice is desirable and beneficial; the Department of Teaching and Learning has identified eight areas in which students are required to demonstrate their competency:

- Professional and personal self-awareness
- Assessment of exception students
- Behavior management
- Classroom instruction
- Collaboration
- Knowledge of the professional literature
- Research in critical areas such as child development, learning and teaching
- Professional development

The department has also developed a list of suggested artifacts through which students can document their competency in each area.

Students should meet with their advisor to discuss and plan their individualized portfolio. A copy of the Master's Portfolio System complete with policies and procedures, as well as suggested artifacts, is available with the Graduate Coordinator.

Each student will be required to present his/her individualized portfolio to the Portfolio Review Committee in the Department of Teaching and Learning upon completion of their major. This presentation will be the master's comprehensive exam. A comprehensive exam is required of all master's level students in the College of Education.

Comprehensive Exam

A portfolio project is required to fulfill the comprehensive examination requirement and is completed in the final semester of matriculation in the major

Thesis/Non-Thesis

This is a non-thesis major.



Exceptional Student Education, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered fully online.

This major shares core requirements with the M.A.T. in Exceptional Student Education.

Contact Information

College: Education

Department: Language, Literacy, Ed.D., Exceptional Education, and Physical Education (LLE)

Contact Information: <http://www.grad.usf.edu/majors>

The Masters of Arts in Exceptional Student Education provides an in-depth view of research, theories, and the application of theory to classroom teaching in Exceptional Student Education (ESE). The major prepares Special Education teacher leaders for work in public and private schools and in-state, federal, or community settings. The major is designed to ensure that all graduates are prepared to be reflective practitioners, able to evaluate and continuously learn from their own teaching; collaborative professionals who affirm diversity; knowledgeable of theory and research; and skilled in the best practices of Special Education. Graduates of this major will have advanced clinical and pedagogical skills in working with children with disabilities and their families. The major is structured so that students can maintain full-time employment while pursuing their degrees through on-line course delivery.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A letter of application that addresses why the candidate desires to pursue an M.A. degree in education.

Curriculum Requirements

Total Minimum hours: 30 Credit Hours

- **Shared Core – 6 Credit Hours**
- **Additional Required Courses - 24 Credit Hours**

Shared Core Requirements (6 Credit Hours)

- EDF 6481 Foundations of Educational Research **Credit Hours: 3**
- EEX 6943 Practicum in Exceptional Student Education **Credit Hours: 1-4 ***

*A portfolio/project is required to fulfill the comprehensive examination requirement and is completed while enrolled in EEX 6943 Practicum in Exceptional Student Education (3)

Additional Required Courses (24 Credit Hours)

- EEX 6612 Management and Motivation of Exceptional and At-Risk Students **Credit Hours: 3**



- EEX 6222 Advanced Psychoeducational Assessment of Exceptional Students **Credit Hours: 3**
- EEX 6245 Transitional Programming for the Adolescent and Young Adult Exceptional Student **Credit Hours: 3**
- EEX 6732 Consultation and Collaboration in Special Education **Credit Hours: 3**
- EEX 5752 Working with Families: A Pluralistic Perspective **Credit Hours: 3**
- EEX 6248 Instructional Approaches for Exceptional Populations **Credit Hours: 3**
- EEX 6939 Advanced Seminar: Paradigms, Practices, and Policies in Special Education **Credit Hours: 3**

Select from one of the following Varying Exceptionalities (3 Credit Hours)

- EBD 6215 Advanced Theories and Practices in Emotional Handicaps **Credit Hours: 3**
- ELD 6015 Advanced Theories and Practices in Specific Learning Disabilities **Credit Hours: 3**
- EEX 6476 Curriculum and Instruction for Students with Low Incidence Disabilities **Credit Hours: 3**

Comprehensive Examination

A project is required to fulfill the comprehensive examination requirement and is completed in EEX 6943 .



Exceptional Student Education, M.A.T.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered partially online.

This major shares core requirements with the M.A. in Exceptional Student Education.

Contact Information

College: Education

Department: Language, Literacy, Ed.D., Exceptional Education, and Physical Education

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Arts in Teaching (M.A.T.) is a graduate major in Special Education for individuals teaching with temporary certification and/or individuals who hold an undergraduate degree in an area other than Special Education. The major leads to certification in Exceptional Student Education (ESE) and endorsements in Reading and English to Speakers of Other Languages (ESOL). Students can be admitted to the major during any semester throughout the year; however, the Special Education core course sequence begins in the fall. Students in the M.A.T. benefit from an integrated curriculum taught in six-hour blocks; mentors who are master teachers within the district that provide one-on-one mentoring for each major participant; and accelerated delivery of course content which allows for completion of the degree in one summer and four academic semesters. All students are required to conduct action research in their classrooms, investigating how they can more effectively use research-based interventions. This requires that students link theory and practice and encourages an inquiry approach to teaching.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A letter of application that addresses why the candidate desires to pursue a master's degree in education.
- At least one letter of recommendation from a person who has observed the candidate teach and/or work with children and youth.
- Demonstrate mastery of general knowledge by one of the following:
 - o Passing the General Knowledge Test, a portion of the Florida Teacher Certification Exam (<http://www.fldoe.org/accountability/assessments/postsecondary-assessment/ftce>) or
 - o Achievement of passing scores, (effective for tests administered on or after July 1, 2015,) as identified in Rule 6A-4.0021(12), F.A.C., on test sections of the GRE® revised General Test:
- GRE Analytical Writing combined score of 4 out of 6 acceptable for GK Essay
- GRE Quantitative Reasoning scaled score of 147 acceptable for GK Mathematics
- GRE Verbal Reasoning scaled score of 151 acceptable for both GK English Language Skills and GK Reading

Curriculum Requirements

Total Minimum Hours: 51 Credit hours

- **Shared Core Requirements – 6 Credit Hours**
- **Additional Required Courses – 30 Credit Hours**



- **ESOL Required Courses - 9 Credit Hours**
- **Internship Courses - 6 Credit Hours**

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

Shared Core Requirements: (6 Credit Hours Minimum)

- EDF 6481 Foundations of Educational Research **Credit Hours: 3**
- EEX 6943 Practicum in Exceptional Student Education **Credit Hours: 1-4 ***

*The successful completion of a comprehensive exam in the form of an action research project is required of all students in their final semester of the program and is completed while enrolled in EEX 6943 Practicum in Exceptional Student Education (3). If the student does not successfully complete the action research project in the last semester of the program, the student must pass 2 credit hours of EDG 6975 Project: Master's/Specialist the following semester for a maximum of two attempts.

Additional Required Courses (30 Credit Hours Minimum)

- EEX 6051 Creating Positive Learning Environments for Students with Disabilities **Credit Hours: 6**
- EEX 6224 Developing Individualized Educational Programs for Students with Disabilities **Credit Hours: 6**
- EEX 6247 Implementing Programs for Students with Disabilities **Credit Hours: 6**
- EDF 6211 Psychological Foundations of Education **Credit Hours: 3**
- RED 6514 The Reading Process in the Elementary Grades **Credit Hours: 3**
- RED 6544 Cognition, Comprehension, and Content Area Reading: Remediation of Reading **Credit Hours: 3**
- MAE 6117 Teaching Elementary Math **Credit Hours: 3**

ESOL Requirements (9 Credit Hours)

NOTE: The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) TSL 5085, TSL 5086, and TSL 5240, with a minimum grade of 70% or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses; (2) a 20-hour early ESOL field experience in ESOL 1; 3 a late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a series of weeks; and 4 an ESOL folder, containing all assignments and test results from ESOL 1, 2, and 3.

Note: If a student obtains a state approved ESOL Endorsement prior to internship, consideration will be given to waiving TSL 5085, TSL 5086 and TSL 5240 with the appropriate program and college approvals.

- TSL 5085 ESOL I - Theory and Practice of Teaching English Language Learners **Credit Hours: 3**
- TSL 5086 ESOL II-Secondary Language & Literacy Acquisition in Children & Adolescents **Credit Hours: 3**
- TSL 5242 ESOL III-Language Principles, Acquisition & Assessment for English Language Learners **Credit Hours: 3**

The special requirements for ESOL endorsement through infusion are as follows:

Successful completion of:

1. The following three ESOL courses with a minimum grade of 70 percent or better on all three sections of the ESOL Comprehensive Exam administered in the three ESOL courses:

- TSL 5085 ESOL I - Theory and Practice of Teaching English Language Learners (3)
- TSL 5086 ESOL II-Secondary Language & Literacy Acquisition in Children & Adolescents (3)
- TSL 5242 ESOL III-Language Principles, Acquisition & Assessment for English Language Learners (3);

2. A 20-hour early ESOL field experience in ESOL 1;

3. A late ESOL field experience where students plan, implement, and evaluate lessons for one or more ESOL students over a



series of weeks; and

4. An ESOL folder, containing all assignments and test results from ESOL 1, 2, and 3.

NOTE: If a student obtains a state-approved ESOL Endorsement prior to internship, consideration will be given to waiving TSL 5085, TSL 5086 and TSL 5242 with the appropriate program and college approvals

Internship (6 Credit Hours)

- EDG 6947 MAT Final Internship **Credit Hours: 1-9**

Comprehensive Exam

A project is required to fulfill the comprehensive examination requirement and is completed while enrolled in EEX 6943 Practicum in Exceptional Student Education (3).

Tests and Examinations

- All students must pass the following examinations:
 - o General Knowledge Test (all four subtests) – if the CLAST (taken after July 1, 2002) was used to fulfill admission requirements instead of the General Knowledge Test (GKT), the GKT must be passed before internship.
 - o Florida Teacher Certification Professional Education Test – must be passed prior to graduation.
 - o Florida Teacher Certification ESE Subject Area Test – must be passed prior to graduation.
- Practicum Requirements: All students are required to register for and complete 3 total hours of practicum (listed above under core requirements). Students who are employed as an ESE-teacher, or as teaching assistant/paraprofessional may complete the practicum in the classroom where they are employed. Students who are not employed as a teacher or teaching assistant/paraprofessional will be placed in a classroom practicum setting with a mentor teacher in the local school district.
- Internship Requirements: All students are required to complete a full-time semester long internship as a special education teacher in a K-12 classroom setting. The internship can be a supervised paid internship which an employed teacher can complete in his/her own classroom. If a student is not employed as a special education teacher, he/she must complete the internship (non-paid) in a supervising teacher's (Professional Practice Partner) classroom.
- Please be advised that program and/or course requirements are subject to change, per State legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.



Foreign Language Education, M.A.T.

Priority Admission Application Deadlines <http://www.grad.usf.edu/majors>

Concentrations:

General Education
Chinese
French
German
Italian
Japanese
Latin
Russian
Spanish

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Education

Department: Language, Literacy, Ed.D., Exceptional Education, and Physical Education

Contact Information: <http://www.grad.usf.edu/majors>

The M.A.T. degree is designed for individuals with a Bachelor's degree in a field other than education who wish to become certified teachers in foreign language at the middle or high school level in the following Languages: Spanish, French, German, Latin, Italian, Chinese, Japanese, or Russian. Students can earn ESOL endorsement at the same time as the Master's degree.

Accreditation

Accredited by the National Council for the Accreditation of Teacher Education, and the Department of Education.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Two Letters of recommendation (1 personal and 1 professional) stating the ability of the student to complete graduate studies.
- Concept Paper or goal statement
- Evidence of 30 credit hours in foreign language coursework or evidence of native language proficiency.
- An appropriate level of proficiency in the foreign language demonstrated by an interview with the program faculty (in person or by telephone, by presenting an ACTFL OPI score of intermediate high or higher, or by any equivalent measure as approved by the program faculty.

For admission to a Master of Arts in Teaching degree program, the student must demonstrate mastery of general knowledge by one of the following:

* Passing the General Knowledge Test, a portion of the Florida Teacher Certification Exam (link to <http://www.fldoe.org/accountability/assessments/postsecondary-assessment/ftce>)

Or

* Effective for tests administered on or after July 1, 2015, achievement of passing scores, as identified in Rule 6A-4.0021(12), F.A.C.,



on test sections of the GRE® revised General Test GRE Analytical Writing combined score of 4 out of 6 acceptable for GK Essay GRE Quantitative Reasoning scaled score of 147 acceptable for GK Mathematics GRE Verbal Reasoning scaled score of 151 acceptable for both GK English Language Skills and GK Reading

During the 2014 Legislative Session, the passage of House Bill 433 amended s. 1012.56, FS, to eliminate the obsolete option of achieving a passing score on the CLAST earned prior to July 1, 2002, to satisfy the general knowledge requirement.

International Students

International students should check with International Services (<https://www.usf.edu/world/international-services/index.aspx>) for the latest information on requirements related to State testing, internship and practica.

Curriculum Requirements

Minimum Hours: 33 (without ESOL), 42 (with ESOL)

- **Core – 6 Credit Hours**
- **Additional Required Courses – 9 Credit Hours**
- **ESOL Endorsement Option– 21 Credit Hours**
- **General Track – 15 Credit Hours minimum**
- **Concentration/Internship – 6 Credit Hours minimum**

A program of study designed for the holder of a non-education baccalaureate degree who is functionally competent and proficient in the target language. This program meets initial certification requirements (K-12) as well as full ESOL endorsement. There is also a fast-track concentration without ESOL endorsement.

Please be advised that curriculum and/or course requirements are subject to change per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

Core Requirements (6 Credit Hours Minimum)

- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- FLE 6665 Current Trends in Secondary Foreign Language Education **Credit Hours: 3**

Additional Required Courses (9 Credit Hours Minimum)

- ESE 5342 Teaching the Adolescent Learner **Credit Hours: 3**
- ESE 5344 Classroom Management for a Diverse School and Society **Credit Hours: 3**
- RED 6365 Disciplinary Literacies and Reading **Credit Hours: 3**

ESOL Endorsement Track (21 Credit Hours)

This track is for individuals who wish to receive the ESOL Endorsement.

- TSL 5085 ESOL I - Theory and Practice of Teaching English Language Learners **Credit Hours: 3**
- TSL 5086 ESOL II-Secondary Language & Literacy Acquisition in Children & Adolescents **Credit Hours: 3**
- TSL 5242 ESOL III-Language Principles, Acquisition & Assessment for English Language Learners **Credit Hours: 3**
- FLE 5291 Technology in the Foreign Language Classroom **Credit Hours: 3**
- FLE 5895 Dual Language Education **Credit Hours: 3**
- FLE 5946 Practicum in Foreign Language/ESOL Teaching **Credit Hours: 3**



- TSL 6390 Instructional Methods and Strategies for Teaching ESOL **Credit Hours: 3**

Concentration Requirements

Students select one of the following Concentrations:

General Education (12 Credit Hours Minimum)

- TSL 5326 L2 Reading for ESOL Students across Content Areas **Credit Hours: 3**
- TSL 6390 Instructional Methods and Strategies for Teaching ESOL **Credit Hours: 3**
- FLE 5895 Dual Language Education **Credit Hours: 3**
- FLE 5946 Practicum in Foreign Language/ESOL Teaching **Credit Hours: 3**

Chinese Concentration (6 Credit Hours)

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admissions requirement)
- FLE 6947 Internship for Secondary Education in Foreign Language **Credit Hours: 6**

French Concentration (6 Credit Hours)

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admissions requirement)
- FLE 6947 Internship for Secondary Education in Foreign Language **Credit Hours: 6**

German Concentration (6 Credit Hours)

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admissions requirement)
- FLE 6947 Internship for Secondary Education in Foreign Language **Credit Hours: 6**

Italian Concentration (6 Credit Hours)

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admissions requirement)
- FLE 6947 Internship for Secondary Education in Foreign Language **Credit Hours: 6**



Japanese Concentration (6 Credit Hours)

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admissions requirement)
- FLE 6947 Internship for Secondary Education in Foreign Language **Credit Hours: 6**

Latin Concentration (6 Credit Hours)

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admissions requirement)
- FLE 6947 Internship for Secondary Education in Foreign Language **Credit Hours: 6**

Russian Concentration (6 Credit Hours)

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admissions requirement)
- FLE 6947 Internship for Secondary Education in Foreign Language **Credit Hours: 6**

Spanish Concentration (6 Credit Hours)

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admissions requirement)
- FLE 6947 Internship for Secondary Education in Foreign Language **Credit Hours: 6**

Comprehensive Examination

A Comprehensive Examination must be taken in the final semester in the program. It is a 3-hour exam where the candidate will be expected to answer questions that display knowledge about the broad subjects that were covered in the program of studies.

Practicum, Internship, Field Work, etc. (6 Credit Hours)

A 6-credit hour internship provides an essential practical and evaluative exit to the program. It is highly recommended to complement it with a 2-credit hour Senior Seminar to debrief and enhance the internship experience.

- FLE 6947 Internship for Secondary Education in Foreign Language **Credit Hours: 6** (PR: CI and passing scores of FTCE)
- FLE 5xxx - Senior Seminar (optional)



Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Foreign Language Education, M.Ed.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Education

Department: Language, Literacy, Ed.D., Exceptional Education, and Physical Education

Contact Information: <http://www.grad.usf.edu/majors>

Intended for experienced/certified educators (broadly defined to include not only teachers but all those working in educational agencies, educational publishing, supervision and administration, technology agencies, and so forth) as well as individuals, who hold an undergraduate degree in some field relevant to the area of specialization, interested in advanced study of education but who are not seeking teacher certification. The aim is to provide advanced preparation for professional educators who are willing to apply what they learn to the creation, implementation, and evaluation of effective instructional programs. Accredited by NCATE.

Accreditation

Accredited by the National Council for the Accreditation of Teacher Education, and the Department of Education.

Admission Requirements

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below. For admission to a Master of Arts in Teaching degree program, the student must demonstrate mastery of general knowledge by one of the following:

- An earned graduate degree with a minimum GPA of 3.50
- Two Letters of recommendation (1 personal and 1 professional) stating the ability of the student to complete graduate studies.
- Concept Paper or goal statement
- Evidence of a second language proficiency as demonstrated by evidence of 30 credit hours in foreign language coursework or interview with program faculty (in person or by phone).

International Students

International students should check with International Services (<https://www.usf.edu/world/international-services/index.aspx>) for the latest information on requirements related to State testing, internship and practica.

Curriculum Requirements

Total Minimum Hours: 33 Credit Hours

- **Core – 6 Credit Hours**
- **Additional required courses – 27 Credit Hours**
- **Optional ESOL Endorsement**

Core Requirements (6 Credit Hours)



- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- FLE 6665 Current Trends in Secondary Foreign Language Education **Credit Hours: 3**

Additional Required Courses (27 credit hours)

- EDG 6627 Foundations of Curriculum and Instruction **Credit Hours: 3**

Psychological/Social Foundations - 3 hours

Choose from list below or similar course:

- EDF 6211 Psychological Foundations of Education **Credit Hours: 3**
- EDF 6215 Learning Principles Applied to Instruction **Credit Hours: 3**

Remaining 21 hours of required courses are selected with Graduate Director.

Comprehensive Exam

A Comprehensive Examination must be taken in the final semester in the program. It is a 3-hour exam where the candidate will be expected to answer questions that display knowledge about the broad subjects that were covered in the program of studies.

Other Requirements for Degree Completion

Other information

Please be advised that curriculum and/or course requirements are subject to change per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

For Optional ESOL Endorsement Track: Refer to the MAT FLE Program, or the ESOL Endorsement Stand-alone certificate.



Physical Education, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered fully online.

Contact Information

College: Education

Department: Language, Literacy, Ed.D., Exceptional Education, and Physical Education

Contact Information: <http://www.grad.usf.edu/majors>

This degree is designed for anyone interested in the lifelong process of becoming a reflective, effective teacher who is prepared to lead youngsters to become physically active for a lifetime. The master's degree in Physical Education is offered online only. Consequently, an I-20 cannot be issued for international students to come to Tampa to enroll in this program. If accepted to the program, international students may only enroll in the program's online courses from outside the United States.

Accreditation

Accredited by the National Council for Accreditation of Teacher Education, National Association for Sport and Physical Education.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Requirements:

- Personal statement
- Two letters of recommendation

International Students

In addition to the University requirements, applicants to the College of Education must provide the following:

- A social security number in degree programs requiring practica or internships;
- Other information as required by the major of interest, (e.g. Graduate Record Exam scores, etc.).

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria

Curriculum Requirements

Total Minimum Hours - 30 Credit Hours

- **Core - 6 Credit Hours**
- **Content Specialization - 18 Credit Hours Minimum**
- **Electives - 6 Credit Hours Minimum**

Core Requirements: (6 Credit Hours Minimum)



- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- EDF 6481 Foundations of Educational Research **Credit Hours: 3**

Content Specialization (18 Credit Hours Minimum)

- PET 6419 Clinical Supervision in Physical Education **Credit Hours: 3**
- PET 6443 Instructional Design and Content: Games **Credit Hours: 3**
- PET 6444 Instructional Design and Content: Dance and Gymnastics **Credit Hours: 3**
- PET 6516 Learner Assessment in Physical Education **Credit Hours: 3**
- PET 6706 Analysis of Research in Physical Education **Credit Hours: 3**
- PET 6716 Analysis of Teaching in Physical Education **Credit Hours: 3**

Electives (6 Credit Hours)

- PET 6216 Sport Psychology **Credit Hours: 3**
- PET 6542 Grant Writing **Credit Hours: 3**
- PET 6256 Sport in Society: Contemporary Issues **Credit Hours: 3**
- PET 6802 Effective Teaching and Classroom Management in Physical Education **Credit Hours: 3**
- PET 5769 Principles and Issues in Coaching **Credit Hours: 3**

Comprehensive Exam

A written comprehensive examination is required during the semester in which the student completes the requirements for the master's degree.

Thesis/Non-Thesis

This is a non-thesis major.



Reading Education, M.A.

Priority Admission Application Deadlines: http://www.grad.usf.edu/programs/search_all.php

This program is offered fully online.

Contact Information

College: Education

Department: Language, Literacy, Ed.D., Exceptional Education, and Physical Education

Contact Information: http://www.grad.usf.edu/programs/search_all.php

The Master of Arts in Reading Education is a distinctive program designed to prepare expert literacy educators and effective literacy leaders. In addition to the scientific study of reading, students will expand their knowledge of global literacies, explore disciplinary literacy practices, develop critical literacies, and advance their digital and media literacy competencies.

The M.A. in Reading program uses interactive and engaging online technologies and is designed for outstanding educators in K-12 classrooms or individuals interested in non-school applications requiring professional literacy expertise.

Applicants with initial certification may pursue the Reading Certification as part of this major. However, this major is also open to applicants without initial certification who may earn the M.A., but will not be eligible for initial or reading certification.

Accreditation: Accredited by the CAEP, and the Florida Department of Education.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below. In order to be considered for admission, first-time or transferring graduate applicants must submit:

Applicants seeking graduate study without certification, provide the following documentation:

- A current resume that outlines previous education and relevant literacy K-12 teaching/mentoring experience;
- A statement of purpose that outlines literacy leadership/teaching experience (and K-12 experience for applicants with initial certification) and a rationale for seeking a Masters of Arts degree in Reading Education;
- Two letters of recommendation from individuals who can attest to professional work experience, work ethic, and academic abilities.

In addition, applicants seeking Reading Certification, must provide the following documentation:

- 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));
- Applicants who don't meet minimum admission requirements but have National Board Certification and an outstanding professional record should contact the department for options.

Pre-requisite:

TSL 5085 ESOL I - Theory and Practice of Teaching English Language Learners (This pre-requisite course requirement may be waived with appropriate documentation of ESOL certification on a professional teaching certificate or coursework waiver with approval from the ESOL coordinator)



For International Students

International students should check with International Services (<https://www.usf.edu/world/international-services/index.aspx>) for the latest information on requirements related to State testing, internship and practica.

Curriculum Requirements

Total Minimum Hours: 36 Credit hours minimum

- **Core Requirements - 36 Credit Hours**

Core Requirements (36 Credit Hours)

- RED 6540 Assessment in Developing Literacies **Credit Hours: 3**
- RED 6749 History and Foundations in Reading and STEM Disciplines **Credit Hours: 3**
- RED 6544 Cognition, Comprehension, and Content Area Reading: Remediation of Reading **Credit Hours: 3**
- RED 6545 Issues in Vocabulary and Word Study **Credit Hours: 3**
- RED 6846 Practicum in Reading **Credit Hours: 3**
- RED 6656 Literature for a Diverse Society **Credit Hours: 3**
- RED 6449 Literacy and Technology **Credit Hours: 3**
- LAE 6315 Composing Texts: Disciplinary Practices for Writers & Writing **Credit Hours: 3**
- RED 6658 Foundations and Application of Differentiated Reading Instruction **Credit Hours: 3**
- RED 6068 Adolescent Literacy: In and Out of School Literacy Practices **Credit Hours: 3**
- RED 6247 Supervision and Coaching in Literacy **Credit Hours: 3**
- EDF 6481 Foundations of Educational Research **Credit Hours: 3**

Comprehensive Examination

In lieu of the Comprehensive Exam, a collection of critical tasks and a synthesis statement in which the student summarizes learning across the program is submitted for approval when the student is enrolled in RED 6247 Supervision and Coaching in Literacy

Critical Tasks and Certification

For all students:

- Critical Tasks and Projects: Students must successfully complete Critical Tasks/Projects in designated courses.

For students seeking Reading Certification:

- Passage of the Reading K-12 Florida Teacher Certification Examination (FCTE) is required for graduation and for receiving reading certification.

Thesis/Non-Thesis:

This is a non-thesis major.



Special Education, Gifted, M.A.

Priority Admission Application Deadlines: http://www.grad.usf.edu/programs/search_all.php

This program is offered fully online.

Contact Information

College: Education

Department: Language, Literacy, Ed.D., Exceptional Education, and Physical Education

Contact Information: http://www.grad.usf.edu/programs/search_all.php

The Master's Degree Program in Special Education, Gifted offers two options:

The first option qualifies students for the State of Florida Endorsement in Gifted Education. This option provides advanced training for certified teachers to work with gifted and talented students and with other teachers on a consultant or collaborative basis. The courses for this major are offered through an on-line format, though some courses may be taken on campus. Emphasis is placed on developing specific skills in identification of gifted students; focusing on the characteristics and needs of special populations; assessing students' cognitive and affective strengths; modifying educational programs to develop gifted students' potential; and consulting with gifted students, their families, and teachers.

After admission to a major, the candidate and the department advisor together chart a program of study incorporating major requirements. Courses stress field based experiences. Students provide their own transportation to practicum sites in K-12 education settings. The practicum experience requires candidates to access assessment information about K-12 students in their school setting, including performance on individualized intelligence tests, achievement tests, and educational programs (EPs). Practicum coursework also requires candidates to conduct extended projects focused on the development and educational progress of K-12 gifted students. Employment in a K-12 classroom as a licensed educator is required to successfully complete major coursework.

The second option is designed for students interested in learning more about gifted children, including parents who homeschool their children and those who interact with gifted individuals in settings outside of traditional K-12 classrooms, such as through museum and summer programs or youth organizations. These individuals would not be seeking an endorsement in gifted education. Prospective students may be from international locales and may not need the Florida Endorsement in Gifted, but would nonetheless seek a degree in gifted education.

Accreditation

Accredited by National Council for Accreditation of Teacher Education, and the Florida Department of Education

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE preferred, but can be waived with department approval. Preferred scores:
 - Verbal: 71st percentile or higher
 - Quantitative: 18th percentile or higher
- The applicant shall send a written statement of professional goals, including how the attainment of a master's degree in gifted aligns with these goals.
- Applicants seeking the Gifted Education Endorsement must also provide:



- One letter of recommendation from administrators familiar with applicant's professional teaching experience and expertise that verify applicant's K-12 employment status
- Copy of professional teaching certificate (not a temporary certificate)
- Evidence that applicant currently holds a teaching position in a K-12 setting

Curriculum Requirements

Total Minimum Hours 36 hours

- **Core Requirements – 6 Credit Hours Minimum**
- **Additional Required Courses– 21 Credit Hours Minimum**
- **Electives – 9 Credit Hours Minimum**

Core Requirements (6 Credit Hours)

- EDF 6481 Foundations of Educational Research **Credit Hours: 3**
- RED 6365 Disciplinary Literacies and Reading **Credit Hours: 3**

Additional Required Courses (21 Credit Hours Minimum)

Courses are selected from below in consultation with the Graduate Director:

- EGI 5051 Nature and Needs of the Gifted **Credit Hours: 3**
- EGI 5307 Theory and Development of Creativity **Credit Hours: 3**
- EGI 6232 Advanced Educational Strategies for the Gifted **Credit Hours: 3**
- EGI 6415 Consultation, Counseling, and Guidance Skills for Gifted Students **Credit Hours: 3**
- EGI 6943 Supervised Practicum in Gifted Education **Credit Hours: 1-12 (3 credits for this program)**
- EDE 6486 Teacher Research for Student Learning **Credit Hours: 3**
Or other graduate course approved by the Graduate Director.

Electives (9 Credit Hours Minimum)

Students select courses in consultation and with approval of the advisor.

Comprehensive Examination

In lieu of a comprehensive examination, candidates will take the Praxis II Exam in Gifted Education and earn a score of 160/200 (80%) to pass, or an alternative assessment determined by the faculty. Candidates may take the exam after completing area of study coursework.

Thesis/Non-Thesis

This is a non-thesis major.



Technology in Education and Second Language Acquisition (TESLA), Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

Colleges: Education

Department: Language, Literacy, Ed.D., Exceptional Education, and Physical Education

Contact Information: <http://www.grad.usf.edu/majors>

This is a doctoral major in the College of Education. It combines the expertise of both faculties from Foreign Languages and Instructional Technology to provide a curriculum in pedagogy, second language acquisition, sociocultural theory, , pragmatics, instructional technology, statistics, and research design. The goal of the major is to prepare students for careers in academia.

Major Research Areas

Second Language Acquisition, Instructional Technology, TESOL, ESOL, Foreign Language Education, Pragmatics, Distance Learning.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

In addition to the general admission requirements under the advanced graduate education majors, applicants must do the following:

- Possess a Master's degree (or equivalent academic level) from an accredited institution or its international equivalent;
- present a minimum GPA of 3.50 at the Master's level (or international equivalent);
- GRE Scores preferred;
- Submit a "Statement of Purpose" relating their career goals specifically to this doctoral major and describing their experience with instructional technology and language teaching and offering evidence of research experience and/or scholarly promise;
- Supply a current curriculum vitae;
- Provide 3 letters of recommendation from professors or other individuals who can attest to the applicant's experience and background;
- Meet with the graduate faculty for a personal/phone interview; and
- In addition to proficiency in their native language (L1), students must demonstrate proficiency in another world languages (L2). Proficiency in speaking the L2 must be at the "Advanced" level or higher, as measured on the Oral Proficiency Guidelines (OPI) of the American Council on the Teaching of Foreign Languages (ACTFL). For specific information, consult www.actfl.org. The graduate advisors will determine whether the students have met this requirement based on these as well as other criteria identified by the SLA/IT faculty.

The faculty will evaluate each applicant's dossier based on a composite of variables and appropriateness of fit with the major.

For international applicants

In addition to university requirements, applicants to the College of Education must provide the following:

- A social security number in degree programs requiring practica or internships;
- Other information as required by the major of interest.



Curriculum Requirements

Total Minimum Hours - 66 Credit Hours Minimum Post-Masters

- Core Requirements - 26 Credit Hours
- Additional Required Courses - 13 Credit Hours
- Electives - 18 Credit Hours
- Dissertation - 9 Credit Hours Minimum

Core Requirements (26 Credit Hours)

- SLA 7938 Advanced Seminar in Second Language Acquisition **Credit Hours: 3**
- FLE 7939 Advanced Seminar in Foreign Language Education **Credit Hours: 3**
- FLE 7700 Applications of Technology in Second Language Acquisition **Credit Hours: 3**
- FLE 7367 Sociocultural Theory in Second Language Acquisition **Credit Hours: 3**
- EDF 6284 Problems in Instructional Design for Computers **Credit Hours: 3**
- EME 7938 Computer-Augmented Instructional Paradigms in Education **Credit Hours: 3**
- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**
- EDF 7477 Qualitative Research in Education Part I **Credit Hours: 4**

Additional Required Courses (13 Credit Hours)

Second Language Acquisition

- SLA 7911 Second Language Acquisition Research Laboratory **Credit Hours: 1-4**
(3 credits for this program)

Technology in Education

One of the following (3 Credit Hour Minimum):

- EME 6208 Interactive Media **Credit Hours: 3**
- EME 6613 Development of Technology-Based Instruction **Credit Hours: 3**
- EME 7939 Research in Technology-Based Education **Credit Hours: 3**

Statistics/Measurement/Research Design

Two of the following (7 Credit Hours minimum):

- EDF 7408 Statistical Analysis for Educational Research II **Credit Hours: 4**
 - EDF 7478 Qualitative Research in Education Part II **Credit Hours: 4**
 - EDF 7410 Design of Systematic Studies in Education **Credit Hours: 3** (Final Semester)
- Other relevant research course(s) as needed.

Electives (18 Credit Hours)

Courses are selected with the approval of the student's graduate advisor or committee with a minimum of nine (9) hours completed in the area of Second Language Acquisition. Elective coursework must be taken at the graduate and/or advanced graduate level.

Examples:

- FLE 6639 Second Language Reading and Literacy **Credit Hours: 3**
- EDG 6931 Selected Topics in Education **Credit Hours: 1-4** (Heritage Language Teaching & Learning)



- EME 6053 Internet in Education **Credit Hours: 3**
- EME 6055 Current Trends in Instructional Technology **Credit Hours: 3**
- EME 6613 Development of Technology-Based Instruction **Credit Hours: 3** (pre-requisite: EDF 6284)

Qualifying Examination

All students will be required to pass a written qualifying examination (QE). The QE integrates work in the specialization, cognate, and foundations areas, in this case, in Technology Education, Second Language Acquisition, and Teacher Education.

Dissertation (9 Credit Hours)

- SLA 7980 Dissertation **Credit Hours: 2-18 (9 credits for this program)**

Residency Requirements

Students must enroll in a minimum of nine hours for each of two semesters in a 12-month period to fulfill the residency requirements. Students in the Ph.D. major should be engaged in no more than half-time employment during the residency period.

Please be advised that major and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards and accreditation criteria.



Department of Leadership, Policy and Lifelong Learning

Major



Career and Technical Education, M.A.

Priority Admission Application Deadlines: http://www.grad.usf.edu/programs/search_all.php

This program is offered fully online.

Contact Information

College: Education

Department: Leadership, Policy and Lifelong Learning

Contact Information: http://www.grad.usf.edu/programs/search_all.php

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Faculty use a process for consideration of admission that encompasses the following items:

- Relevant experience in the field of Career & Technical Education (or closely related field):
- A letter of application describing professional background, professional goals, and reasons for pursuing a master's degree in Career and Technical Education
- A current resume or vita.

Curriculum Requirements

Total Minimum Hours: 30 Credit Hours

- **Core Requirements - 30 Credit Hours**

Core Requirements:

- ECT 6661 Trends and Issues in Career and Technical Education **Credit Hours: 3**
- ECT 6197 Enhancing Career and Technical Education Curriculum **Credit Hours: 3**
- ECT 5386 Preparation and Development for Teaching **Credit Hours: 3**
- ECW 6205 Administration of Local Programs: Vocational **Credit Hours: 3**
- ECW 6695 School Community Relations **Credit Hours: 3**
- ECW 6696 Equity and Access in the New Economy **Credit Hours: 3**
- ECW 6206 Supervision of Local Programs: Vocational Education **Credit Hours: 3**
- ECT 6766 Emerging Workplace Competencies **Credit Hours: 3**
- ECT 6767 Improving Career and Technical Education Programs **Credit Hours: 3**
- ECT 6948 Practicum: Industrial-Technical Education **Credit Hours: 3-6**

Comprehensive Examination:



A portfolio serves in lieu of a comprehensive exam. Students will maintain a comprehensive portfolio and submit it during the last semester as part of ECT 6948 Practicum: Industrial-Technical Education requirements, which serve as the capstone course in the program.

Thesis/Non-Thesis:

This is a non-thesis major.



Counselor Education, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentration:

School Counseling

Contact Information

College: Education

Department: Leadership, Policy and Lifelong Learning

Contact Information: <http://www.grad.usf.edu/majors>

The Counselor Education major provides students with the general counseling skills needed to become professional counselors. Graduates are trained to assess problems, counsel clients, select appropriate intervention strategies and consult with other professionals and administrators. One concentration area is available: School Counseling.

Accreditation:

Accredited by the Council for the Accreditation of Educator Programs (CAEP).

Major Research Areas:

School Counseling, Group Counseling, Counselor Education

Admissions Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Documentation that applicant has passed all four subtests of the FTCE General Knowledge Test (GKT)
- Proof of educational or professional experience
- Three letters of recommendation
- Personal statement
- Interview
- Resume

International Students

International students should check with International Services (<https://www.usf.edu/world/international-services/index.aspx>) for the latest information on requirements related to State testing, internship and practica.

Curriculum Requirements

Total Minimum Hours - 55 Credit Hours Minimum

- **Core – 6 Credit Hours**
- **Additional required courses – 24 Credit Hours**
- **Concentration – 25 Credit Hours minimum**



Core Requirements (6 Credit Hours Minimum)

- EDF 6354 Human Development and Personality Theories **Credit Hours: 3**
- EDF 6481 Foundations of Educational Research **Credit Hours: 3**

Additional Required Courses: (24 Credit Hours Minimum)

- MHS 6006 Trends and Principles of the Counseling Profession **Credit Hours: 3**
- MHS 6420 Multicultural Counseling with Diverse Populations **Credit Hours: 3**
- MHS 6200 Assessment and Appraisal Procedures **Credit Hours: 3**
- MHS 6340 Career Development **Credit Hours: 3**
- MHS 6400 Counseling Theories and Practices **Credit Hours: 3**
- MHS 6311 Online Services in Counseling and Helping Professions **Credit Hours: 3**
- MHS 6509 Group Counseling Theories and Practices **Credit Hours: 3**
- MHS 6700 Legal and Ethical Issues in the Counseling Profession **Credit Hours: 3**

Concentration Requirements

School Counseling Concentration (25 Credit Hours Minimum)

- EDF 6217 Behavior Theory and Classroom Learning **Credit Hours: 3**
- MHS 6470 Human Sexuality Issues for Counselors **Credit Hours: 3**
- MHS 6450 Counseling Substance Abuse in School and Community **Credit Hours: 3**
- MHS 6800 Practicum in Counseling Adolescents and Adults **Credit Hours: 4**
- MHS 6418 School Counselor Accountability and Curriculum **Credit Hours: 3**
- MHS 6601 Consultation for the Counseling Profession **Credit Hours: 3**
- SDS 6820 Internship in School Counseling **Credit Hours: 3-6** (6 Credit Hours required for this program)

NOTE: RED 6514 and TSL 6700 are also required if documentation of Reading Endorsement and ESOL Endorsement are not provided:

- RED 6514 The Reading Process in the Elementary Grades **Credit Hours: 3**
- TSL 6700 ESOL for School Psychologists and School Counselors **Credit Hours: 3**

Other Information

Please be advised that major and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria. A School Counseling (Post Master's) Graduate Certificate is also available.

Comprehensive Exam

Students must successfully pass a comprehensive examination *prior to* enrollment in SDS 6820 Internship in School Counseling and must present official passing scores on the following examinations prior to graduation:

- Florida Professional Education Exam
- Florida Subject Area Examination in Guidance and Counseling



Educational Leadership, Ed.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Education

Department: Leadership, Policy and Lifelong Learning

Contact Information: <http://www.grad.usf.edu/majors>

The Education Specialist (Ed.S.) in Educational Leadership degree program is designed for experienced administrators seeking to develop their capacity to lead "turnaround" or lower performing schools. Coursework in this program is specifically designed in consultation with leadership development personnel and District-level Administrators in partnering school districts.

Students in this degree program develop their ability to make student-centered decisions through integration of rigorous analysis of theory, research, and exemplary practices. An appreciative inquiry orientation and applied capstone project enables candidates to work in teams. These teams develop an improvement report and intervention plan based on analysis of literature related to: school improvement and turnaround strategies; informed and responsible use of school data, including climate and culture inventories; ethical, political, cultural and critical perspectives on school sustainable school leadership; asset-based approaches to school improvement; and knowledge of effective program models or cases.

For individuals interested in the Florida Educational Leadership Certification, please see the M.Ed. degree program. For those interested in a research-focused degree, please see the Ph.D. degree program. Courses taken in the Ed.S. degree program may be able to be transferred into the Ed.D. in Educational Program Development - Educational Innovation if students apply for and are accepted before ending their Ed.S. program of study. Please consult the program coordinator for further information.

Accreditation

Accredited by National Council for the Accreditation of Teacher Education (NCATE).

Admission Information

Applicants should contact the Program Advisor prior to applying to Graduate Admissions. Admission to the Education Specialist program occurs **one time per year for the spring semester**. Admission is based on a comprehensive evaluation of each applicant's demonstrated academic potential to successfully complete all of the degree requirements. The process for admission to the degree program is often coordinated with partnering school districts. Interested applicants should contact the Program Coordinator for further information.

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Preferred applicants should have:

- An earned master's degree from an accredited institution of higher education.
- An earned grade point average of 3.50 in the master's degree and an earned undergraduate grade point average of 3.00 in the last half of the undergraduate degree program.

Applicants will also submit:

- A statement of purpose for pursuing the Ed.S. degree program).
- Three letters of recommendation from people knowledgeable about the applicant's academic and professional competence.
- Current vita/resume.



- As applicable to a particular cohort, other relevant information may be required as developed in coordination with partnering school districts. Contact the Program Coordinator for further information.

Curriculum Requirements

Total Minimum Hours – 30 hours

- **Core - 15 Credit Hours**
- **Additional Required Courses - 9 Credit Hours**
- **Capstone - 6 Credit Hours**

Core (15 Credit Hours)

- EDA 7206 Appreciative Inquiry and Organizing in Public Education **Credit Hours: 3**
- EDA 7069 Ethics and Educational Leadership **Credit Hours: 3**
- EDG 7692 Issues in Curriculum and Instruction **Credit Hours: 3**
- EDA 7215 Educational Politics and the Engagement of Communities **Credit Hours: 3**
- EDA 7197 Current Readings and Discourse in Educational Leadership **Credit Hours: 3**

Additional Required Courses (9 Credit Hours)

- EDA 6106 Administrative Analysis and Change **Credit Hours: 3**
 - EDA 6213 Culturally Relevant Leadership **Credit Hours: 3**
- Select one of the following:
- EDA 6931 Case Studies in School Administration **Credit Hours: 3**
 - EDA 6271 Data-based Decision Making Strategies for Educational Leaders **Credit Hours: 3**

Capstone Project (6 Credit Hours)

Students will complete a capstone project, in which they identify and analyze educational problems and opportunities in their school system environment and apply concepts developed in the program in order to provide solutions to problems of practice.

- EDG 6975 Project: Master's/Specialist **Credit Hours: 1-9 (3 credits for this program)**
- EDG 6975 Project: Master's/Specialist **Credit(s): 1-9 (3 credits for this program)**

Comprehensive Exam

Students will be required to develop and defend a capstone research project proposal.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.



Educational Leadership, M.Ed.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered partially online.

Concentrations:

- K-12 Public School Leadership
- Non-Public Or Charter School Leadership
- Curriculum Leadership

Contact Information

College: Education

Department: Leadership, Policy and Lifelong Learning

Contact Information: <http://www.grad.usf.edu/majors>

USF offers one program, with three different concentrations, united across three campuses. Our program is strengthened through diversity of the overall body: faculty, students, partners, and communities. We are committed to offering holistic and personalized educational opportunities to support learners' preparedness to enact leadership collaboratively toward equitable and excellent education and educational system and educational policy. The M.Ed. in Educational Leadership offers students an opportunity to pursue a concentration in one of three areas: K-12 Public School Leadership, Non-Public or Charter School Leadership, and Curriculum Leadership. Each concentration has a unique focus in Educational Leadership; students are encouraged to consider their career goals to determine the appropriate concentration.

- **K-12 Public School Leadership Concentration:** Effective school leaders must be focused instructional leaders who are able to lead in diverse school settings. Successful completion of the concentration fulfills degree and core curriculum requirements for Florida certification in Level I K-12 Educational Leadership – Administrative Class.
- **Non-Public or Charter School Leadership Concentration:** The face of education is changing nationwide and many private, charter, alternative, or independent schools are emerging. This concentration is designed for educational leadership positions in non-public K-12 settings that do not require Florida administrator certification. The program emphasizes leadership elements related to instruction, decision-making processes, constituent relationships, and fiscal and facility management. This concentration does not satisfy all requirements for administrator certification.
- **Curriculum Leadership Concentration:** Graduates of this concentration bring leadership skills to curriculum focused roles in schools, district offices, and education-related organizations. The concentration is designed to teach and assess the knowledge, skills and dispositions of effective leadership in curriculum, instruction, and professional development for K-12 teachers or other educators. This concentration does not satisfy all requirements for administrator certification.

Students in the program engage research in order to develop decision-making strategies, engage and inform stakeholders, sustain motivation for change, and build academic improvement opportunities for all children. Program students are prepared through collaborative inquiry, culturally relevant pedagogy, and applied leadership opportunities. Accordingly, the M.Ed. in Educational Leadership prepares schools leaders to perform their designated tasks in an effective, equitable and ethical manner aligned to the Florida Principal Leadership Standards (FPLS) for K-12 schools.

Accreditation

Accredited by National Council for the Accreditation of Teacher Education/Council for the Accreditation of Educator Preparation (NCATE/CAEP); and the Florida Department of Education.



Admission Information

Admission may occur in the fall, spring, or summer semester. Admission is based on a holistic evaluation of each applicant's demonstrated academic potential to complete all degree requirements successfully. Success in the M.Ed. program requires a commitment to utilizing rigorous inquiry, developing strong analytical and writing skills, and demonstrating a commitment to purposeful inclusive practices that lead to learning for all students. The program faculty will consider each applicant within the context defined by her or his personal and professional qualifications.

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Professional Resume
- Letter of Intent outlining experience and goals for the degree (2-3 pages). For applicants to the Non-Public or Charter School Leadership Concentration, in the letter, individuals should indicate that they are seeking an educational leadership position in a private, non-public, charter, or other school setting that does not require Florida State Certification.
- Three letters of professional recommendation from persons knowledgeable about the applicant's academic and professional competence, addressing the applicant's instructional expertise and leadership potential. At least one of the three (3) recommendations must be from the applicant's current or recent direct supervisor.
- Applicants to the K-12 Public School Leadership Concentration may also be required to submit:
 - A State of Florida Level I Educational Leadership Certification (a valid Florida Professional Educator's Certificate)
 - Two years of full-time teaching experience
 - Documentation of successful demonstration of the core standards for effective educators outlined in the Florida Educator Accomplished Practices (FEAPs) and a documented track record of achieving student gains. Candidates not employed by a Florida public school district may provide equivalent documentation of two years of effective instruction with a record of learning gains.
 - Proof of English for Speakers of Other Languages (ESOL) training (e.g. ESOL endorsement; completion of ESOL certification exam plus 120 hours of ESOL district in-service training; or, completion TSL 5085; ESOL 1 or equivalent.) Note: in consultation with the program coordinator, students without this training may meet the training while in program by enrolling in a USF ESOL Course.
- Applicants to the Curriculum Leadership Concentration may also be required to submit:
 - Satisfactory two (2) years of Post-Bachelor's Teaching or Satisfactory Curriculum-related Experience (K-12 preferred) with either a Florida Professional Educator's Certificate or a Letter of Verification from the Employing Institution.

International Students

International students should check with International Services (<https://www.usf.edu/world/international-services/index.aspx>) for the latest information on requirements related to State testing, internship and practica.

Curriculum Requirements

Total Minimum Hours: 30 Credit hours

- **Core Requirements - 18 Credit Hours**
- **Concentration/Electives - 12 Credit Hours**

Core Requirements (18 Credit Hours)

- EDA 6192 Educational Leadership **Credit Hours: 3**
- EDA 6061 Principles of Educational Administration **Credit Hours: 3**
- EDA 6213 Culturally Relevant Leadership **Credit Hours: 3**
- EDG 6627 Foundations of Curriculum and Instruction **Credit Hours: 3**



- EDA 6232 School Law **Credit Hours: 3**
- EDA 6106 Administrative Analysis and Change **Credit Hours: 3**

Concentration (12 Credit Hours)

Students choose one of the following three (3) concentrations:

K-12 Public School Leadership Concentration (12 Credit Hours)

- EDG 6285 School Curriculum Improvement **Credit Hours: 3**
- EDA 6194 Educational Leadership II: Building Capacity **Credit Hours: 3**
- EDA 6945 Administration Practicum **Credit Hours: 3-8**
- EDS 6945 Administration Practicum 2 **Credit Hours 3 (Proposed as EDS 6945)**

Non-Public or Charter School Leadership Concentration (12 Credit Hours)

- EDS 6050 Principles and Practices of Educational Supervision **Credit Hours: 3**
- EDA 6242 School Finance **Credit Hours: 3**
- EDA 6503 The Principalship **Credit Hours: 3**
- EDA 6931 Case Studies in School Administration **Credit Hours: 3**

Curriculum Leadership Concentration (12 Credit Hours)

- EDE 6076 Teacher Leadership for Student Learning **Credit Hours: 3**
- EDE 6556 Coaching for Student Learning **Credit Hours: 3**
- EDE 6486 Teacher Research for Student Learning **Credit Hours: 3**
- EDE 6366 Professional Development for Student Learning **Credit Hours: 3**

Comprehensive Exam

A comprehensive electronic portfolio is submitted for evaluation in lieu of a comprehensive examination.

Graduation Requirement

The Florida Educational Leadership Exam (FELE) must be passed prior to graduation. Official FELE score report submission required.

Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.



Educational Leadership, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Education

Department: Leadership, Policy and Lifelong Learning

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. in Educational Leadership degree program is designed for those individuals who intend to build an academic career focused on conducting research and analysis in the multidisciplinary field of educational leadership and policy studies, or who wish to build an administrative career focused on innovative and inquiry-based leadership. Accordingly, this program will prepare individuals for careers in K-12 education systems, research universities and teaching colleges, as well as private, non-profit, state, federal, or international educational agencies.

Individual students will work alongside distinguished faculty with expertise in multiple fields including: ethical leadership, curriculum and pedagogy, politics of education, education law, organizational theory, equitable education reform, school accountability and choice policies, and anti-oppressive education. The program is designed to provide students exposure to research and academic discourses in organizational leadership, curriculum leadership, and policy leadership in education. In addition, students will gain knowledge around research methodologies and a specialized cognate area of study.

Students in this degree program will design an individualized program of study that reflects their specific research interests. This will prepare students to conduct and apply high quality research to practice, write and present scholarly papers at professional conferences, and submit research articles for publication in education journals.

Initial advising, from inquiry about the program through the first year of coursework, is provided by the Doctoral Program Coordinator. By the completion of the second year of study, students will select a major professor who will assist them with planning their remaining course of study. By the end of the third year, students will assemble an advisory committee consisting of the major professor and at least three other members. This committee guides the student through the dissertation process, including the qualifying examination, dissertation proposal, and dissertation defense.

NOTE: The Ph.D. degree program is not an initial certification or licensure program. Students seeking Florida Level 1 Educational Leadership Certification need to refer to the M.Ed. degree program or consult with the Ph.D. Program Coordinator to complete a modified program with additional coursework from the Education Leadership Praxis and Field Experiences Requirements (15 credits) in the M.Ed. Program in Educational Leadership, in addition to the Ph.D. requirements.

For further information, please see <http://www.usf.edu/education/areas-of-study/educational-leadership-policy/>

Accreditation:

Accredited by the National Council for the Accreditation of Teacher Education (NCATE).

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Admission to the Doctor of Philosophy (Ph.D.) program in Educational Leadership occurs one time each year in the fall semester. Admission is based on a comprehensive evaluation of each applicant's demonstrated academic potential to successfully complete all of the degree requirements. Success in the Ph.D. degree program requires students to deeply engage in an area of inquiry, apply excellence



in research methods, and develop exceptional writing skills. The program faculty will consider each applicant entirely within the context defined by her or his personal and professional qualifications. Applicants meeting the set of initial criteria will be asked to participate in an interview conducted by faculty and complete a timed writing sample that will be scheduled to occur before or after the interview.

Applicants should have:

- An earned master's from an accredited institution of higher education
- An earned grade point average of 3.50 in the master's degree and an earned undergraduate grade point average of 3.00 in the last half of the bachelor's degree
- An official Graduate Record Exam (GRE) received within the last five years. A combined score greater than 300 with no Quantitative or Verbal sub-test score below 150 is preferred (48th percentile Verbal; 38th percentile Quantitative).

Applicants should submit:

- A letter of intent outlining experiences and goals (3 page maximum);
- A current resume;
- Three letters of professional reference, each enclosed in a sealed envelope and signed across the flap by the recommender or emailed by recommender to Lisa Adkins (lisaadkins@usf.edu). Please ask references to include your name and "letter of reference" in subject line when emailing the letter.

International Students

International students should check with International Services (<https://www.usf.edu/world/international-services/index.aspx>) for the latest information on requirements related to State testing, internship and practica.

Curriculum Requirements

Total Minimum Hours: 57 Credit hours

- **Core Knowledge– 12 Credit hours**
- **Major Knowledge – 15 Credit hours**
- **Minor Knowledge – 9 Credit hours**
- **Research Methods – 15 Credit hours**
- **Dissertation - 6 Credit hours minimum**

Core Knowledge Requirements (12 Credit Hours)

- EDG 7067 Philosophies of Inquiry **Credit Hours: 3**
- EDA 7192 Leadership in Education: Theory and Inquiry **Credit Hours: 3**
- EDA 7280 Curriculum Theory **Credit Hours: 3**
- EDA 7287 Educational Politics and Policy: Theory and Issues **Credit Hours: 3**

Major Knowledge Requirements (15 Credit Hours)

Note: Students cannot use more than 2 Special Topics Seminars to fulfill Major Knowledge Requirements.

- EDA 6195 Policy Development **Credit Hours: 3**
- EDA 7215 Educational Politics and the Engagement of Communities **Credit Hours: 3**
- EDA 7281 Policy Analysis and Implementation Strategies for Educational **Credit Hours: 3**
- EDG 7931 Selected Topics **Credit Hours: 1-4 (3 credits for this program)** (Special Topics in Policy Leadership)
- EDG 7207 Transforming the Curriculum **Credit Hours: 3**



- EDG 7667 Analysis of Curriculum and Instruction **Credit Hours: 3**
- EDG 7692 Issues in Curriculum and Instruction **Credit Hours: 3**
- **EDG 7931 Selected Topics (3 Credits for this program)** - Special Topics in Seminar in Curriculum Leadership
- EDA 7069 Ethics and Educational Leadership **Credit Hours: 3**
- EDA 7193 Organizational Leadership and Systems Theory **Credit Hours: 3**
- EDA 7206 Appreciative Inquiry and Organizing in Public Education **Credit Hours: 3**
- EDA 7233 Legal Dimensions of School Administration **Credit Hours: 3**
- EDG 7931 Selected Topics **Credit(s): 1-4 (3 credits for this program)** (Special Topics Seminar in Educational Leadership)
- EDG 7936 Graduate Seminar: Leader-Scholar Community **Credit Hours: 3**

Minor Knowledge Requirements (9 Credit Hours)

Note: In consultation with the program coordinator or major professor, students will select a minimum of three (3) 7000-level or 6000-level courses to be taken outside of the Educational Leadership Program area. Students are expected to support the development of their research interest through the courses taken to fulfill the Minor Knowledge Requirements.

- Elective 1 **Credit(s): 3**
- Elective 2 **Credit(s): 3**
- Elective 3 **Credit(s): 3**

Research Methods Requirements (15 Credit Hours)

- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4 (3-4 credits for this program)** (or equivalent)
- EDF 7477 Qualitative Research in Education Part I **Credit Hours: 4 (3-4 credits for this program)** (or equivalent)
- Elective 1 **Credit(s): 3-4**
- Elective 2 **Credit(s): 3-4**
- Elective 3 **Credit(s): 3-4**

Dissertation (6 Credit Hours)

- EDG 7980 Dissertation **Credit Hours: 2-19 (6 credits for this program)** (Doctoral)

Required Examinations

A qualifying examination is required prior to admission to candidacy. Upon approval of major professor, the qualifying examination can be scheduled after a candidate has completed a minimum of 48 credit hours of all required coursework.

Residency

There is no on-campus residency requirement for the Ph.D.



Department of Teaching and Learning

Major



Educational Studies, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also available as a M.A. in Elementary Education for those who already hold teacher certification (non-certification) and a M.A.T. degree in Elementary Education for students seeking initial teacher certification.

This major shares core requirements with the M.A. and the M.AT. in Elementary Education.

Contact Information

College: Education

Department: Teaching and Learning

Contact Information: <http://www.grad.usf.edu/majors>

The Masters in Arts in Educational Studies is designed for those who desire to increase their competence in working with children of elementary age in diverse educational and leadership roles. Graduates bring high-level skills in planning and leadership to their professional roles in the communities they serve. The M.A. is not designed for those seeking initial teacher certification.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- A statement of purpose indicating reasons for applying to the program, pertinent personal and professional dispositions or experiences and/or credentials relevant to working with children.
- Two letters of recommendation (professional/academic reference letters and contact information from individuals who can attest to academic accomplishments.
- A current resume.
- Passing of the General Knowledge Test, a portion of the Florida Teacher Certification Exam or a combined GRE score that meets the following subtest requirements:
 - GRE Analytical Writing combined score of 4 out of 6
 - GRE Quantitative Reasoning scaled score of 147
 - GRE Verbal Reasoning scaled score of 151

Students who do not meet the admission requirements are encouraged to contact the department for advising and options.

For international applicants:

International students entering this degree program must obtain a social security number for purposes of practicum, internship and certification testing.

Curriculum Requirements

Total Minimum Hours: 36 Credit Hours

- **Shared Core Requirements - 6 Credit Hours**
- **Additional Required Courses - 27 Credit Hours**



- **Required Elective - 3 Credit Hours**

Shared Core Requirements (6 Credit Hours)

- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- EDF 6552 The Role of Education in a Democracy **Credit Hours: 3**

Additional Required Courses (27 Credit Hours)

- EDF 6120 Child Development **Credit Hours: 3**
- EDF 6481 Foundations of Educational Research **Credit Hours: 3**
- EDF 6517 Historical Foundations of American Education **Credit Hours: 3**
- FLE 5145 Language Principles, Acquisition and Teaching **Credit Hours: 3**
- LAE 6415 Literature and the Learner **Credit Hours: 3**
- LAE 6616 Trends in Language Arts Instruction **Credit Hours: 3**
- MAE 6117 Teaching Elementary Math **Credit Hours: 3**
- RED 6545 Issues in Vocabulary and Word Study **Credit Hours: 3**
- SCE 6115 Trends in Science Instruction **Credit Hours: 3**

Required Elective (3 Credit Hours)

Student completes three hours of elective graduate coursework with prior approval from the Graduate Director.

Comprehensive Examination

Application to take the Comprehensive Exam must be submitted to the Program Advisor by the "last day of drop/add from courses without penalty" in the semester prior to the semester in which the exam will be taken.



Elementary Education, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Teacher Leadership
STEM

Also available as a M.A.T. degree in Elementary Education for students seeking initial teacher certification.

This major shares core requirements with the M.AT. in Elementary Education.

Contact Information

College: Education

Department: Teaching and Learning

Contact Information: <http://www.grad.usf.edu/majors>

The Masters in Arts in Elementary Education is designed for those with a bachelor's degree and certification in the discipline who desire to increase their competence in Elementary Education curriculum. Graduates bring leadership skills to teaching and curriculum-focused teacher leadership roles in schools and education-related organizations. The M.A. is not designed for those seeking initial certification.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Have an earned, valid, professional teaching certificate or be eligible for professional certification through the completion of a Bachelor's Degree (state-approved) program.
- A statement of purpose indicating reasons for applying to the program, pertinent personal and professional dispositions or experiences and/or credentials relevant to teaching.
- Two letters of recommendation (professional/academic reference letters and contact information from individuals who can attest to academic accomplishments.
- A current resume.

For international applicants:

International students entering this degree program must obtain a social security number for purposes of practicum, internship and certification testing.

Curriculum Requirements

Total Minimum Hours: 36 credit hours

- **Shared Core Requirements - 6 Credit Hours**
- **Concentration - 30 Credit Hours**

Shared Core Requirements (6 Credit Hours)



- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- EDF 6552 The Role of Education in a Democracy **Credit Hours: 3**

Concentration (30 Credit Hours)

Students choose one of the following concentrations:

Teacher Leadership Concentration (30 Credit Hours)

- EDE 6076 Teacher Leadership for Student Learning **Credit Hours: 3**
- EDE 6556 Coaching for Student Learning **Credit Hours: 3**
- EDE 6366 Professional Development for Student Learning **Credit Hours: 3**
- EDE 6486 Teacher Research for Student Learning **Credit Hours: 3**
- EDE 6365 Culturally Responsive Pedagogy for Elementary Student Learning **Credit Hours: 3**

And 15 Credit Hours (5 courses) selected from a variety of College of Education courses. Possibilities are 6000-level courses in Math, Science, Social Studies, Early Childhood, ESOL, and Technology.

STEM Concentration (30 Credit Hours)

Note - This concentration is for full-time teachers.

- SCE 6735 Trends in Math and Science Education for Elementary Teachers **Credit Hours: 3**
- STM 6311 Current Trends in K-12 Math and Science Assessment **Credit Hours: 3**
- MAE 6315 Algebraic Thinking for Elementary Teachers **Credit Hours: 3**
- MAE 6334 Problem Solving for Elementary Teachers **Credit Hours: 3**
- MAE 6316 Geometry and Measurement for Elementary Teachers **Credit Hours: 3**
- SCE 6855 Teaching Biology & Ocean Science in Elementary **Credit Hours: 3**
- SCE 6803 Physical Science for Elementary Teachers **Credit Hours: 3**
- SCE 6838 Teaching Earth Space in Elementary **Credit Hours: 3**
- SMT 6315 Middle and Secondary STEM Methods **Credit Hours: 3**
- EDE 6486 Teacher Research for Student Learning **Credit Hours: 3**

Comprehensive Examination

Transition Point Projects: Students must successfully complete a Transition Point Project after each teacher leadership course, culminating in an action research project.



Elementary Education, M.A.T.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

**applications accepted on an on-going basis*

This program is offered partially online.

This major shares core requirements with the M.A. in Elementary Education.

Contact Information

College: Education

Department: Teaching and Learning

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Arts in Teaching (MAT) major is designed for those students who hold a bachelor's degree outside of the field of Elementary Education. The program prepares students to become successful elementary school teachers in Grades K-6. In addition to earning the master's degree, program completers graduate with certification in Elementary Education K-6, as well as the ESOL Endorsement. Through coursework and supervised field experiences, M.A.T. graduates will demonstrate depth and breadth of content knowledge; self-reflection, professional growth and ethical practice; use of research-based practices and data to make instructional decisions; design educational experiences that result in positive impact on student academic achievement; demonstrate proficiency integrating technology; enhance learning environments to meet the needs of diverse experiences, perspectives, and cultures of students; and communicate in ways that demonstrate fairness, respect, and sensitivity to diversity, setting high academic expectations for all students.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Passing of the General Knowledge Test, a portion of the Florida Teacher Certification Exam or Effective for tests administered on or after July 1, 2015, achievement of passing scores, as identified in Rule 6A-4.0021(12), F.A.C., on test sections of the GRE® revised General Test:
- GRE Analytical Writing combined score of 4 out of 6 acceptable for GK Essay
- GRE Quantitative Reasoning scaled score of 147 acceptable for GK Mathematics
- GRE Verbal Reasoning scaled score of 151 acceptable for both GK English Language Skills and GK Reading.
- A personal statement indicating reasons for applying to the program, pertinent personal and professional dispositions, and experiences and/or credentials relevant to teaching.

For international applicants:

International students entering this degree program must obtain a social security number for purposes of practicum, internship and certification testing.

Curriculum Requirements



Total Minimum Hours: 54 Credit Hours

- Shared Core Requirements - 6 Credit Hours
- Additional Required Courses – 39 Credit Hours
- Practicum - 3 Credit Hours
- Internship - 6 Credit Hours

Students are expected to meet State of Florida testing requirements and Florida State Department of Education program approval standards, and accreditation criteria.

Please be advised that curriculum and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

Shared Core Requirements: (6 Credit Hours)

- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- EDF 6552 The Role of Education in a Democracy **Credit Hours: 3**

Additional Required Courses (39 Credit Hours)

- TSL 5085 ESOL I - Theory and Practice of Teaching English Language Learners **Credit Hours: 3**
- EDF 6211 Psychological Foundations of Education **Credit Hours: 3**
- LAE 6427 Children's Literature: Teaching Literature Appreciation **Credit Hours: 3**
- RED 6316 Emergent Literacy: Skills, Strategies, and Assessment **Credit Hours: 3**
- EDE 6506 Managing and Differentiating the Instructional Environment in Elementary Schools **Credit Hours: 3**
- LAE 6317 Teaching Composition in Elem Classroom: Research into Practice **Credit Hours: 3**
- MAE 6117 Teaching Elementary Math **Credit Hours: 3**
- SCE 6315 Teaching Elementary (K-5) School Science **Credit Hours: 3**
- RED 6317 Intermediate Literacy: Assessment, Skills, and Strategies **Credit Hours: 3**
- SSE 6617 Trends in K-6 Social Science Education **Credit Hours: 3**
- EEX 6025 Trends and Issues in Special Education **Credit Hours: 3**
- RED 6846 Practicum in Reading **Credit Hours: 3**
- TSL 5242 ESOL III-Language Principles, Acquisition & Assessment for English Language Learners **Credit Hours: 3**

Practicum (3 Credit Hours)

- EDE 6946 Practicum Field Experience **Credit Hours: 3**

Internship (6 Credit Hours)

- EDG 6947 MAT Final Internship **Credit Hours: 1-9**

Comprehensive Examination

Students are required to complete a Transition Point Project in the fall semester prior to the final clinical requirements. Candidates must pass the Transition Point Project in order to continue the program; if a candidate fails twice, he or she will be deemed as not making academic progress and will be subject to dismissal from the program. The project requires work independent of courses. A candidate may submit only one Transition Point Project during a semester.



Practicum and Clinical Education

- Practicum and Clinical Education: Candidates will be required to complete several field experiences and clinical education experiences throughout the teacher preparation program. It is the policy that a candidate who does not successfully complete a field experience or clinical education experiences will be terminated from the program. The final clinical education experience involves observing and teaching in a classroom. Candidates should meet with an advisor to discuss eligibility for Clinical Education. Special requirements for enrollment in the final clinical education are:
 - Admission to the College of Education.
 - Passing scores on all sections of the General Knowledge Test or GRE.
 - Completion of fingerprinting and background check as required by the school district in which the student is placed.
 - Successful completion of the Practicum/Clinical Education II.
 - Completion of an application for the final Clinical Education III.
 - Completion of all professional education and specialization coursework including the ESOL documentation, prior to Clinical Education III.
 - Passing scores on all sections of the FTCE exams.
- Evidence of passing scores is due by the date established by the Coordinator of Clinical Education, normally 45 days prior to the end of the semester before final internship.
- During the clinical education year, students progress as a cohort. Ordinarily, participation as a full-time student is required. All students are required to complete 12-hours a week (minimum) of practicum during their program and a final full-time clinical education in their last semester. Placements are made for students in local school districts.
- Transition Point Project: Students are required to complete a Transition Point Project in the fall semester prior to the final clinical requirements. Candidates must pass the Transition Point Project in order to continue the program; if a candidate fails twice, he or she will be deemed as not making academic progress and will be subject to dismissal from the program. The project requires work independent of courses. A candidate may submit only one Transition Point Project during a semester.
- Action Research Project: Students are required to complete an Action Research Project during their final clinical requirement semester. Candidates must pass the Action Research Project in order to graduate from the program.



Mathematics Education (6-12), M.A.T.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the M.A.T. in Middle Grades Mathematics (5-9).

Contact Information

College: Education

Department: Teaching and Learning

Contact Information: <http://www.grad.usf.edu/majors>

The M.A.T. in Mathematics Education (6-12) is designed for individuals seeking initial certification to teach High School or Middle School mathematics (grades 6-12) while working towards a Master's degree. It is planned for graduates of B.A. Liberal Arts Mathematics programs or for graduates of other programs who have completed at least 30 credit hours of mathematics courses that include six (6) hours of calculus, three (3) hours of linear or abstract algebra, three (3) hours of number theory.

Please be advised that program and/or course requirements are subject to change per state legislative mandates, Florida Department of Education program approval standards and accreditation criteria.

Accreditation: Accredited by the Florida Department of Education, and the National Council for the Accreditation of Teacher Education.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Meet one of the following criteria:
 - Have completed 21 credit hours in mathematics at or above the level of college algebra and a passing score on the Florida Subject Area Exam in Mathematics 6-12 (FTCE)
 - have completed at least 30 credit hours in mathematics at or above the level of College Algebra
 - Passed the Florida General Knowledge Test (GKT). For the graduate level teacher preparation programs, GRE scores of 150 (48th percentile) verbal and 156 (60th percentile) quantitative or higher, taken within the last five years may be accepted in place of GKT, for admission to the program.

For admission to a Master of Arts in Teaching degree program, the student must demonstrate mastery of general knowledge by one of the following:

* Passing the General Knowledge Test, a portion of the Florida Teacher Certification Exam (link to <http://www.fldoe.org/accountability/assessments/postsecondary-assessment/ftce>)

Or

* Effective for tests administered on or after July 1, 2015, achievement of passing scores, as identified in Rule 6A-4.0021(12), F.A.C., on test sections of the GRE® revised General Test GRE Analytical Writing combined score of 4 out of 6 acceptable for GK Essay GRE Quantitative Reasoning scaled score of 147 acceptable for GK Mathematics GRE Verbal Reasoning scaled score of 151 acceptable for both GK English Language Skills and GK Reading

During the 2014 Legislative Session, the passage of House Bill 433 amended s. 1012.56, FS, to eliminate the obsolete option of achieving a passing score on the CLAST earned prior to July 1, 2002, to satisfy the general knowledge requirement.

International Students

In addition to the University requirements, applicants to the College of Education must provide the following:



- A social security number in degree programs requiring practica or internships;
- Other information as required by the major of interest, (e.g. Graduate Record Exam scores, etc.).

Curriculum Requirements

Total Minimum Hours: 40 Credit Hours

- **Shared Core Requirements - 9 Credit Hours**
- **Additional Required Courses - 6 Credit Hours**
- **Trends - 3 Credit Hours**
- **Specialization - 12 Credit Hours**
- **Practicum/Internship - 10 Credit Hours**

Pre-requisites

Students without appropriate ESOL training and/or a measurement course must complete graduate course(s) to satisfy those two program prerequisites. Students admitted without a 30-hour mathematics background will have to take undergraduate course work to insure that their background reflects at least:

- 6 hours of Calculus
- 3 hours of linear algebra or abstract algebra
- 3 hours of Number Theory or Discrete Mathematics
- 3 hours of geometry
- 3 hours of History of Mathematics
- 3 hours of Probability or Statistics

Any pre-requisite undergraduate credit hours taken will not apply to the minimum curriculum requirements for the Major.

Shared Core Requirements (6 Credit Hours)

- ESE 5344 Classroom Management for a Diverse School and Society **Credit Hours: 3**
- ESE 5342 Teaching the Adolescent Learner **Credit Hours: 3**
- RED 6365 Disciplinary Literacies and Reading **Credit Hours: 3**

Additional Required Courses (6 Credit Hours)

- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- TSL 5325 ESOL Strategies for Content Area Teachers **Credit Hours: 3**

Current Trends in Teaching Concentration (3 Credit Hours)

- MAE 6136 Current Trends in Secondary Mathematics Education **Credit Hours: 3**

Specialization Requirements (12 Credit Hours Minimum)

Students may waive up to 6 hours of course credit based upon approval of their academic advisor and the Department. (*Other coursework would be taken in lieu of the 6 hours*)

- MAE 6337 Topics in Teaching Algebra **Credit Hours: 1-4 (3 credits for this program)**
- MAE 6338 Topics in Teaching Geometry **Credit Hours: 1-4 (3 credits for this program)**



- MAE 6137 Topics in Teaching Probability and Statistics **Credit Hours: 3**
- MAE 6336 Topics in Teaching Calculus **Credit Hours: 3**
- MAE 6370 Mathematics for High School Teachers **Credit Hours: 3**
- MAE 6362 Senior High Mathematics Methods **Credit Hours: 3**

Practicum, Internship, Field Work, etc. (10 Credit Hours)

- MAE 6945 Practicum in Mathematics Education **Credit Hours: 3**
- MAE 6947 Internship in Secondary Education for Mathematics **Credit Hours: 6**
- MAE 6899 Internship Seminar in Mathematics Education **Credit Hours: 1-3 (1 credit for this program)**

Testing

All portions of the General Knowledge Test (GK) of the Florida Teacher Certification Exam (FTCE) must be passed prior to internship. Both the Mathematics 6 – 12 test and the Professional Education test of the FTCE must be passed prior to completion of internship.

Comprehensive Examination:

Passing a comprehensive exam is required prior to graduation. Students should contact their academic advisor to make arrangements to take the comprehensive exam in last fall or spring semester it can only be taken while enrolled in at least 2 credits. Making these arrangements two semesters prior to graduation is advised.



Middle Grades Mathematics (5-9), M.A.T.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the M.A.T. in Mathematics Education (6-12).

Contact Information

College: Education

Department: Teaching and Learning

Contact Information: <http://www.grad.usf.edu/majors>

The M.A.T. in Middle Grades Mathematics Education (5-9) is designed for individuals seeking initial certification to teach mathematics at the middle grades level. Please be advised that program and/or course requirements are subject to change, per state legislative mandates, Florida Department of Education program approval standards, and accreditation criteria.

Accreditation

Accredited by the Florida Department of Education and the Council for the Accreditation of Educator Preparation (CAEP)

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Meet one of the following criteria:

- Have passed the Florida Subject Area Exam in Mathematics 5-9
- Have completed at least 18 credit hours in mathematics at the level of college algebra
- Passed the Florida General Knowledge Test (GKT). For the graduate level teacher preparation programs, preferred GRE scores of 150 verbal and 156 quantitative or higher, taken within the last five years may be accepted in place of GKT, for admission to the program.

For admission to a Master of Arts in Teaching Program, the student must demonstrate mastery of general knowledge by one of the following:

* Passing the General Knowledge Test, a portion of the Florida Teacher Certification Exam (link to <http://www.fldoe.org/accountability/assessments/postsecondary-assessment/ftce>)

Or

* Effective for tests administered on or after July 1, 2015, achievement of passing scores, as identified in Rule 6A-4.0021(12), F.A.C., on test sections of the GRE® revised General Test GRE Analytical Writing combined score of 4 out of 6 acceptable for GK Essay GRE Quantitative Reasoning scaled score of 147 acceptable for GK Mathematics GRE Verbal Reasoning scaled score of 151 acceptable for both GK English Language Skills and GK Reading

International Students

In addition to the University requirements, applicants to the College of Education must provide the following:

- A social security number in degree programs requiring practica or internships;
- Other information as required by the major of interest, (e.g. Graduate Record Exam scores, etc.).

Curriculum Requirements



Total Minimum Hours 39 hours

- Foundational Courses - 6 Credit Hours
- Shared Core Requirements - 9 Credit Hours
- Specialization - 9 Credit Hours
- Math Education Courses - 15 Credit Hours

Foundational Courses (6 Credit Hours)

Students must complete this prior to proceeding with the other required courses.

- EDF 6432 Foundations of Measurement **Credit Hours: 3** (Or Equivalent)
- FLE 5366 ESOL Education in Content Areas **Credit Hours: 3**

Shared Core Requirements (9 Credit Hours)

- ESE 5344 Classroom Management for a Diverse School and Society **Credit Hours: 3**
- ESE 5342 Teaching the Adolescent Learner **Credit Hours: 3**
- RED 6365 Disciplinary Literacies and Reading **Credit Hours: 3**

Specialization Requirements (9 Credit Hours)

- MAE 6328 Algebra for Middle Grades Teachers **Credit Hours: 3**
- MAE 6329 Geometry and Measurement for Middle Grades Teachers **Credit Hours: 3**
- MAE 6127 Probability and Statistics for Middle Grades Teachers **Credit Hours: 3**

Math Education (15 Credit Hours)

- MAE 6356 Teaching of Pre-Secondary School Mathematics **Credit Hours: 3**
- MAE 6126 Current Trends in Middle Grades Mathematics **Credit Hours: 3**
- MAE 6945 Practicum in Mathematics Education **Credit Hours: 3**
- MAE 6947 Internship in Secondary Education for Mathematics **Credit Hours: 6**

Project

Action Research Project to be taken in the last fall or spring: Can only be taken while enrolled in at least two credits.



Middle Grades STEM Education, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Education

Department: Teaching and Learning

Contact Information: <http://www.grad.usf.edu/majors>

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.

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 Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- 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 an accredited university and teacher certification in an appropriate area;
- Grades of 'C' or better in all core undergraduate science and mathematics courses;
- 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 an accredited university with grades of 'B' or better in all science and mathematics graduate level coursework

Curriculum Requirements

Total Minimum Hours - 36 Credit Hours

- **Core Requirements - 36 Credit Hours**

Core Requirements (36 Credit Hours)

- EDF 6481 Foundations of Educational Research **Credit Hours: 3**
- RED 6544 Cognition, Comprehension, and Content Area Reading: Remediation of Reading **Credit Hours: 3**
- EDG 6935 Seminar in Curriculum Research **Credit Hours: 1-3** (3 Credits for this program)
- SCE 6836 Teaching Earth Space in Middle Grades **Credit Hours: 3**



- SCE 6876 Teaching Biology & Ocean Science in Middle Grades **Credit Hours: 3**
- SCE 6804 Physical Science for Middle Grade Teachers **Credit Hours: 3**
- MAE 6329 Geometry and Measurement for Middle Grades Teachers **Credit Hours: 3**
- MAE 6650 Technology-Enhanced Numerical Analysis in the Middle Grades **Credit Hours: 3**
- MAE 6654 Teaching Technology-Enhanced Algebra in the Middle Grades **Credit Hours: 3**
- SCE 6738 Trends in STEM Education for Middle Grade Teachers **Credit Hours: 3**
- SMT 6318 Current Trends in K-12 Math and Science Assessment **Credit Hours: 3**
- SMT 6315 Middle and Secondary STEM Methods **Credit Hours: 3**

Comprehensive Examination

Students complete a portfolio in lieu of the Comprehensive Exam

Graduation Requirements

- To graduate, students must successfully complete the required coursework (36 credit hours) with a 3.00 or higher grade point average.
- Students must possess 60 hours of ESOL training upon completion of the program. If a student enters the program without 60 hours of ESOL, it is the student's responsibility to provide proof of successful completion of 60 hours of ESOL 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 campus in 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 will be shared at the beginning of the student's graduating semester at the latest.



Science Education, M.A.T.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Biology
Chemistry
Earth & Space Science
Physics

Also offered as a Bachelor's/Master's Pathway

This major shares core requirements with the M.A. in Science Education.

Contact Information

College: Education

Department: Teaching and Learning

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Arts in Teaching (MAT) in Science Education prepares students to teach science at the middle or high school levels. There are four science subject areas that students can choose from: Biology, Chemistry, Earth Science, and Physics. The M.A.T. program is a state approved program for certification in Biology, Chemistry, and Physics, but not Earth Science. However, students who complete the M.A.T. with the concentration in Earth Science can apply directly to the State for certification. Students interested in certification in Earth Science should seek academic advising to identify how this impacts initial teacher certification and reciprocity with other states. Candidates for the Master of Arts in Teaching (M.A.T.) in Science Education should have a degree in a science discipline (e.g., biology, chemistry, physics, earth science) that is taught in a middle or high school, or a closely related field.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

For admission to a Master of Arts in Teaching Program, the student must demonstrate mastery of general knowledge by one of the following:

* Passing the General Knowledge Test, a portion of the Florida Teacher Certification Exam ([link to http://www.fldoe.org/accountability/assessments/postsecondary-assessment/ftce](http://www.fldoe.org/accountability/assessments/postsecondary-assessment/ftce))

Or

* Effective for tests administered on or after July 1, 2015, achievement of passing scores, as identified in Rule 6A-4.0021(12), F.A.C., on test sections of the GRE® revised General Test GRE Analytical Writing combined score of 4 out of 6 acceptable for GK Essay GRE Quantitative Reasoning scaled score of 147 acceptable for GK Mathematics GRE Verbal Reasoning scaled score of 151 acceptable for both GK English Language Skills and GK Reading

International Students

In addition to the University requirements, applicants to the College of Education must provide the following:

- A social security number in degree programs requiring practica or internships;
- Other information as required by the major of interest, (e.g. Graduate Record Exam scores, etc.).



Curriculum Requirements

Total Minimum Hours 39 hours minimum

- **Shared Core Requirements - 30 Credit Hours**
- **Additional Required Course - 3 Credit Hours**
- **Concentrations - 6 Credit Hours**

The courses required for the M.A.T. in Science Education are listed below. Please check with the program for other program requirements.

Shared Core Requirements (30 Credit Hours Minimum)

- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- ESE 5342 Teaching the Adolescent Learner **Credit Hours: 3**
- ESE 5344 Classroom Management for a Diverse School and Society **Credit Hours: 3**
- TSL 5325 ESOL Strategies for Content Area Teachers **Credit Hours: 3**
- SCE 5325 Methods of Middle Grades Science Education **Credit Hours: 3**
- RED 6365 Disciplinary Literacies and Reading **Credit Hours: 3**
- SCE 5337 Methods of Secondary Science Education **Credit Hours: 3**
- SCE 6416 Teaching Secondary School Biology **Credit Hours: 3**
- SCE 6456 Teaching Secondary School Physical and Earth Science **Credit Hours: 3**
- SCE 6634 Current Trends in Secondary Science Education **Credit Hours: 3**
- SCE 6938 Topics in Science Education: Field Practicum **Credit Hours: 3**

Additional Required Courses (3 Credit Hours)

- SCE 6938 Topics in Science Education: Field Practicum **Credit Hours: 3**

Concentration Requirements (6 Credit Hours)

Students select from the following Concentrations:

Biology

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admission's requirement).
- SCE 6947 Internship in Secondary Education for Social Sciences **Credit Hours: 6** (PR: CI and passing scores of FTCE exam)

Chemistry

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admission's requirement).



- SCE 6947 Internship in Secondary Education for Social Sciences **Credit Hours: 6** (PR: CI and passing scores of FTCE exam)

Earth & Space Science

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admission's requirement).
- SCE 6947 Internship in Secondary Education for Social Sciences **Credit Hours: 6** (PR: CI and passing scores of FTCE exam)

Physics

- Student's participation in the internship experience in classes that correspond to the specific area in which he or she will be certified.
- Passing score on the appropriate subject area exam.
- Student's content degree or equivalent (an admission's requirement)
- SCE 6947 Internship in Secondary Education for Social Sciences **Credit Hours: 6** (PR: CI and passing scores of FTCE exam)

Comprehensive Examination

A written narrative exam tailored to the individual student. Exam needs to be completed by two weeks before final exam week of the student's graduating semester. Exams will only be accepted during fall or spring semester, unless previous contract is established with the student's advisor.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Secondary English Education, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Teaching Secondary Writing
Teaching Secondary Reading
Teaching Secondary ELLs
Teaching Young Adult Literature

Contact Information

College: Education

Department: Teaching and Learning

Contact Information: <http://www.grad.usf.edu/majors>

The University of South Florida's Master of Arts in Secondary English Education is designed for certified teachers looking to deepen their craft through additional professional preparation and for those considering advanced graduate study (e.g., a Ph.D. in English Education).

Accreditation: Includes the State of Florida Accomplished Practices as well as NCATE/NCTE accreditation standards, and program approval by the Department of Education.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Proof of successful completion of the GKT or of GRE with minimum score of 156 in verbal reasoning and a least 4/6 on analytical writing.
- Students with fewer than 24 upper-level undergraduate course credits in English may still be accepted to the program, but they will be required to make up the deficiency in undergraduate coursework by taking additional graduate courses in English/Education during the program.
- A personal statement (300-500 words) stating educational or professional purpose for pursuing this graduate degree.
- Two letters of recommendation from former professors assessing the applicant's readiness for graduate study (or, if a former professor is not an option because the applicant has been out of school for several years, letters from work supervisors are permissible).

Curriculum Requirements

Total Minimum Hours: 30 Credit Hours

- Shared Core - 6 Credit Hours
- Trends - 3 Credit Hours
- Concentration - 15 Credit Hours
- Other required education courses - 6 Credit Hours



Please be advised that curriculum and/or course requirements are subject to change per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

Shared Core Requirements (6 Credit Hours)

- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- LAE 5862 Classroom Communication in English Education **Credit Hours: 3**

Trends Requirement (3 Credit Hours)

- LAE 6637 Current Trends in Secondary English Education **Credit Hours: 3**

Concentration (15 Credit Hours)

Students choose one of the following concentrations:

Teaching Secondary Writing Concentration

- LAE 6345 Teaching Written Composition **Credit Hours: 3**
- LAE 6644 Current Teaching of the English Language and the Study of Traditional Grammar **Credit Hours: 3**
- LAE 6923 Teachers Writing: A Writing Workshop Approach to the Teaching of Writing **Credit Hours: 3**
- LAE 6793 Professional Leadership and Research in the Teaching of Writing **Credit Hours: 3**

And one additional course (3 Credit hours), as approved by the Department.

Teaching Secondary Reading Concentration

Note - the Teaching Secondary Reading Concentration leads to Florida Reading Endorsement.

- RED 6658 Foundations and Application of Differentiated Reading Instruction **Credit Hours: 3**
- RED 6545 Issues in Vocabulary and Word Study **Credit Hours: 3**
- RED 6544 Cognition, Comprehension, and Content Area Reading: Remediation of Reading **Credit Hours: 3**
- RED 6540 Assessment in Developing Literacies **Credit Hours: 3**
- RED 6846 Practicum in Reading **Credit Hours: 3**

Teaching Secondary ELLs Concentration

Note - The Teaching Secondary ELLs concentration leads to Florida Reading Endorsement.

- TSL 5085 ESOL I - Theory and Practice of Teaching English Language Learners **Credit Hours: 3**
- TSL 5086 ESOL II-Secondary Language & Literacy Acquisition in Children & Adolescents **Credit Hours: 3**
- TSL 5242 ESOL III-Language Principles, Acquisition & Assessment for English Language Learners **Credit Hours: 3**
- LAE 6644 Current Teaching of the English Language and the Study of Traditional Grammar **Credit Hours: 3**

And one additional course (3 Credit hours), as approved by the Department.

Teaching Young Adult Literature Concentration



- LAE 6366 New Perspectives on the Teaching of Young Adult Literature in Middle & Secondary Schools **Credit Hours: 3**
- LAE 6467 World Literature for Teachers **Credit Hours: 3**
- LAE 6861 American and British Literature with Technology **Credit Hours: 3**
- LAE 6644 Current Teaching of the English Language and the Study of Traditional Grammar **Credit Hours: 3**

And one additional LAE course (3 Credit hours), as approved by the Department.

Comprehensive Examination

Before graduating with a master's degree, all candidates must take and successfully pass a Comprehensive Examination in English Education at the end of their program. Students must be registered in LAE 6637 during the semester in which the examination is taken.



Secondary English Education, M.A.T.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Education

Department: Teaching and Learning

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Arts in Teaching (M.A.T.) in Secondary English Education is a major designed to prepare students for initial certification in English Education. The M.A.T. in Secondary English Education is designed to include initial certification to teach English, Grades 6-12, with ESOL Endorsement and Reading Endorsement while working towards a master's degree. This major is intended for individuals with a bachelor's degree in Liberal Arts English or for graduates of other programs who have subsequently completed the following coursework within their programs of study: grammar/language development, adolescent literature, American literature, British literature, female/minority literature, expository writing, and creative writing.

Accreditation: Includes the State of Florida Accomplished Practices as well as NCATE/NCTE accreditation standards, and program approval by the Department of Education.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Proof of successful completion of the GKT or of GRE with minimum score of 156 in verbal reasoning and a least 4/6 on analytical writing.
- Students with fewer than 24 upper-level undergraduate course credits in English may still be accepted to the program, but they will be required to make up the deficiency in undergraduate coursework by taking additional graduate courses in English/Education during the program.
- A personal statement (300-500 words) stating educational or professional purpose for pursuing this graduate degree.
- Two letters of recommendation from former professors assessing the applicant's readiness for graduate study (or, if a former professor is not an option because the applicant has been out of school for several years, letters from work supervisors are permissible).

International Students

International students entering this degree program must obtain a social security number for purposes of practicum, internship and certification testing.

Curriculum Requirements

Total Minimum Hours: 52 Credit Hours

- **Shared Core - 6 Credit Hours**
- **ESOL Courses - 6 Credit Hours**
- **Reading Endorsement - 15 Credit Hours**
- **Electives - 6 Credit Hours**
- **Other required Courses - 19 Credit Hours**



Please be advised that curriculum and/or course requirements are subject to change per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

Shared Core Requirements (6 Credit Hours Minimum)

- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- LAE 5862 Classroom Communication in English Education **Credit Hours: 3**

ESOL Courses (6 Credit Hours)

- TSL 5085 ESOL I - Theory and Practice of Teaching English Language Learners **Credit Hours: 3**
- TSL 5242 ESOL III-Language Principles, Acquisition & Assessment for English Language Learners **Credit Hours: 3**

Reading Endorsement (15 Credit Hours)

- RED 6316 Emergent Literacy: Skills, Strategies, and Assessment **Credit Hours: 3**
- RED 6317 Intermediate Literacy: Assessment, Skills, and Strategies **Credit Hours: 3**
- LAE 6427 Children's Literature: Teaching Literature Appreciation **Credit Hours: 3**
- LAE 6317 Teaching Composition in Elem Classroom: Research into Practice **Credit Hours: 3**
- RED 6846 Practicum in Reading **Credit Hours: 3**

Electives (6 Credit Hours)

- ESE 5342 Teaching the Adolescent Learner **Credit Hours: 3**
- ESE 5344 Classroom Management for a Diverse School and Society **Credit Hours: 3**

Other Required Courses (19 Credit Hours)

- LAE 6738 Teaching Reading in English Curriculum **Credit Hours: 3**
- LAE 6345 Teaching Written Composition **Credit Hours: 3**
- LAE 6339 Methods of Teaching Secondary English Language Arts **Credit Hours: 3**
- LAE 6637 Current Trends in Secondary English Education **Credit Hours: 3**
- LAE 6947 Internship in Secondary Education for English **Credit Hours: 6** *In order to complete the internship (LAE 6947), candidates must have achieved passing scores on the State of Florida tests.*

Comprehensive Examination:

All candidates must take and successfully pass a master's Comprehensive Examination in English Education during their last year of the program.



Social Science Education, M.A.T.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Education

Department: Teaching and Learning

Contact Information: <http://www.grad.usf.edu/majors>

The M.A.T. degree is for individuals with a bachelor's degree in a field other than education who wish to become certified teachers in social science at the middle or senior high school level. This major leads to teaching certification in grade 6-12 social sciences as part of the master's degree program.

Accreditation

Accredited by the Florida State Department of Education.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Prerequisites:

- Major: A bachelor's degree in a social studies field that is taught at the 6-12 grade level OR the equivalent bachelors and/or graduate degrees from a foreign institution
- Survey of American History 1 & 2;
- Survey of Western Civilization or World History 1 & 2; and
- Geography, economics, psychology, and either anthropology or sociology

Students who do not have these eight (8) courses can submit passing scores on the Florida 6-12 Social Sciences Subject Area Exam with their application in partial or full consideration of the prerequisites and consideration for admission.

Requirements for all applicants include:

- 3.00 in graduate coursework can be used to augment the undergraduate GPA.
- Resume
- 250-word letter of interest stating your objectives in pursuing this course of study
- Two letters of recommendation attesting to the applicants' potential success as a graduate student and his/her ability to work with adolescents.
- Disclosure of arrest and conviction information

For admission to a Master of Arts in Teaching Degree Program, the student must demonstrate mastery of general knowledge by one of the following:

* Passing the General Knowledge Test, a portion of the Florida Teacher Certification Exam ([link to http://www.fldoe.org/accountability/assessments/postsecondary-assessment/ftce](http://www.fldoe.org/accountability/assessments/postsecondary-assessment/ftce))

Or

* Effective for tests administered on or after July 1, 2015, achievement of passing scores, as identified in Rule 6A-4.0021(12), F.A.C., on test sections of the GRE® revised General Test GRE Analytical Writing combined score of 4 out of 6 acceptable for GK Essay GRE



Quantitative Reasoning scaled score of 147 acceptable for GK Mathematics GRE Verbal Reasoning scaled score of 151 acceptable for both GK English Language Skills and GK Reading

International Students

In addition to the University requirements, applicants to the College of Education must provide the following:

- A social security number in degree programs requiring practica or internships;
- Other information as required by the major of interest, (e.g. Graduate Record Exam scores, etc.)

Curriculum Requirements

Total Minimum hours: 33 hours Minimum

- **Core Requirements - 12 Credit Hours**
- **Trends - 3 Credit Hours**
- **Specialization - 9 Credit Hours**
- **Practicum/Internship - 9 Credit hours**

The requirements are as follows or as recommended by the graduate advisor and approved by the college and/or Office of Graduate Studies.

Core Requirements (12 Credit Hours)

- ESE 5342 Teaching the Adolescent Learner **Credit Hours: 3**
- TSL 5325 ESOL Strategies for Content Area Teachers **Credit Hours: 3**
- EDF 6432 Foundations of Measurement **Credit Hours: 3**
- ESE 5344 Classroom Management for a Diverse School and Society **Credit Hours: 3**

Current Trends in Teaching Concentration (3 Credit Hours)

- SSE 6636 Trends in Secondary Social Science Education **Credit Hours: 3**

Specialization Requirements (9 Credit Hours)

- SSE 5331 Foundations, Curriculum & Instruction of Social Science Education **Credit Hours: 3**
- SSE 5332 Methods and Strategies in Social Science Education **Credit Hours: 3**
- RED 6365 Disciplinary Literacies and Reading **Credit Hours: 3**

Practicum, Internship, Field Experiences, Etc. (9 Credit Hours)

All sections of the GKT, the FTCE Prof., and Educ. & Subj. Area: Social Science 6-12 must be passed prior to internship.

Program of studies will be planned so that all course work will be completed prior to the internship. However, should there be a need for an exception; M.A.T. students may take one 3-credit course during internship—although this is inadvisable given the full-time nature of the teaching experience and one 3-credit course after internship.

All school districts require fingerprints for a minimum of practica and final internship. Students must pass a criminal background check to the satisfaction of the school district. Some districts also require drug testing.

- SSE 5946 Practicum in Social Science Education **Credit Hours: 3** (Prereq: SSE 5331)



- SSE 6947 Internship in Secondary Education for Science **Credit Hours: 6**

Comprehensive Examination

The Comprehensive exam is taken while enrolled in SSE 6636 Trends in Secondary Social Science Education.



College of Engineering

College of Engineering

EN - Programs

University of South Florida
College of Engineering
4202 E. Fowler Ave ENB118
Tampa, FL 33620

Web address: <http://www2.eng.usf.edu/>

Phone: 813-974-3780

Fax: 813-974-0460

Email: n/a

College Dean: Robert H. Bishop, Ph.D.

Associate Dean: Sanjukta Bhanja, Ph.D.

Mission Statement

The mission of the USF College of Engineering is to improve the quality of life in our community by providing a high quality education for our engineering graduates and practicing professionals; by creating new knowledge and solving real world problems via innovative research; and by engaging in effective community service and outreach.

What We Do

At the graduate level students work in close collaboration with faculty, pursuing advanced topics within their disciplines, which will result in advancements in their fields and society-at-large.

Utilizing the expertise of its individual and collective faculty, the College is dedicated to the development of new fundamental knowledge and processes or procedures, which will benefit all humanity. The College promotes multi-disciplinary approaches, commitment to life-long learning and awareness of societal issues, which are requisite for meeting technological challenges.

The College provides technical assistance and technology transfer to the region, state and nation. In all facets of teaching, research and service, the College emphasizes close liaisons with industry and government to provide students and faculty with the skills and perspectives needed to ensure effective technological leadership.

College Requirements

General Major Requirements

The requirements for graduate degrees from the College of Engineering consist of University requirements, College requirements, and Major requirements. For University requirements refer to the Office of Graduate Studies Policies and Procedures. College requirements are listed below. Refer to the degree sections for other requirements.



Master's Degree Programs

The Master's degree is awarded for advanced study beyond the baccalaureate degree within an area of specialty. The College of Engineering offers several majors leading to degrees at the master's level.

Master of Science in Designated Engineering Field - This degree is normally awarded to a Master's graduate who holds a Bachelor's degree in the designated field. Some majors offer this degree in two options: (1) thesis option (30 credits), and (2) non-thesis option (30 credits).

Master of Designated Discipline - This degree is normally awarded to a Master's graduate who has an undergraduate degree in the discipline and who follows an all coursework major or a project major.

College of Engineering Requirements for Master's Degree

1. A thesis major must contain a minimum of 24 credit hours of coursework and a minimum of 6 credit hours of thesis. (If a student transfers from a thesis major to an all coursework major, no thesis hours may be transferred, converted or counted toward the degree.)
2. Non-thesis major requirements vary according to department but must contain a minimum of 30 credits of approved coursework.
3. Students must maintain an overall grade point average of 3.00. No grade below "C" will be accepted in a graduate major. If a student's average falls below 3.00, the student will be placed on probation.
4. Most majors require students to pass a final oral or written comprehensive examination prior to receiving the degree. These examinations are arranged and administered by the student's department.

Accelerated Majors Leading to Accelerated Bachelor's and Master's Degrees

Students who are clearly interested in graduate study are invited to pursue an Accelerated Major leading to a Bachelor's Degree and Master's degree in the College of Engineering. Students in the Accelerated Major may apply up to 12 credit hours of graduate level coursework, which must be approved by the Graduate Coordinator, to count towards both degrees.

Students apply for admission to this major through their advisors, who should be consulted regarding additional requirements. Several factors, which vary by academic department, are considered for admission.

Doctoral Degree Majors

The Doctor of Philosophy degree is awarded in recognition of demonstrated scholarly competence and ability to conduct and report original and significant research. Unlike the baccalaureate and Master's degrees, the Ph.D. degree cannot be earned by an accumulation of course credits over a period of residence alone. After adequate fundamental preparation to gain competence, the student must demonstrate research capability through completion of an authoritative investigation in the chosen engineering field, culminating in a written dissertation. The dissertation must demonstrate that the student possesses the ability to reason logically, the talent for engaging in significant and original research, and the ability to organize and present conclusions in a professional manner.

Doctor of Philosophy in Designated Engineering Field - This degree is awarded to students pursuing a major in one of the following Engineering disciplines: Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Science and Engineering, Electrical Engineering, Environmental Engineering, Industrial Engineering, and Mechanical Engineering. Students receiving this degree must demonstrate a thorough foundation in the designated discipline.

College of Engineering Requirements for Doctoral Degrees

1. Supervisory Committee. An advisor will be appointed by the chair of the appropriate department or major for each student during the first semester of registration at the University of South Florida. The advisor will help determine the student's area of



research interest and will delineate preliminary course assignments. At the earliest possible date, a major professor will be appointed and a supervisory committee formed. This committee will monitor the student's program of studies and has full responsibility for conducting the student's qualifying examination. The Supervisory Committee consists of a minimum of five members. One member of the committee must be outside the College of Engineering. (The requirement may be waived if special reasons exist and prior approval is obtained from the Engineering Associate Dean for Academic Affairs.) A majority of the committee will be from the College of Engineering, with at least two departments of the College represented.

2. Credit Hours. A minimum of 72 hours beyond the baccalaureate degree, including a minimum of 20 hours of dissertation, and a minimum of 30 hours of coursework (excluding independent study and directed research) is required by the College. Further requirements may be imposed by the candidate's doctoral major and supervisory committee. See individual majors for specific requirements.
3. Learning Focus. Throughout the student's program of study, independent learning will be emphasized. For the first time in the participant's career, in most cases, the student will be responsible for mastering a new domain of knowledge without the aid of organized lectures and textbooks. The principal information source will be current literature. Such experience is a necessary preparation for a meaningful career in engineering and other fields where the professional must keep pace with a large, ever-changing body of knowledge.
4. Qualifying Examination. A written and oral qualifying examination, conducted by the supervisory committee, will be taken by each Ph.D. student as soon as a substantial majority of coursework is completed.
5. Admission to Candidacy. Students must be admitted to candidacy before they register for dissertation. Before admission to candidacy, students must have officially formed a Ph.D. Supervisory Committee and passed the qualifying examination of paragraph 4. Once admitted to candidacy students must enroll for a minimum of 2 credit hours each semester of the academic year until completion of major.
6. Dissertation Research. The student must carry out an investigation resulting in an original and significant contribution to the knowledge in the field of research. The requirement of uniqueness means that the dissertation research will provide an important creative experience for the student. As the final stage of the student's major, the candidate must prepare a written dissertation covering the research. Students in the Ph.D. major must take an appropriate number of doctoral dissertation credits, but not less than 20 hours; the exact number is determined by department and/or individual requirements. The defense of the dissertation will conform to Office of Graduate Studies general rules.
7. Residency. Minimum residency requirements may be satisfied by completing the University's minimal requirement at the University of South Florida. Any graduate work counted toward the fulfillment of the requirement for the Ph.D. degree after admission to candidacy must be accomplished within 5 calendar years.

Collaboration with Other Colleges and Departments

Advanced study and research challenges exist at the interfaces between engineering and other academic disciplines. Examples include surface physics and chemistry applied to semiconductor processing technology; semiconductor physics applied to VLSI and analog integrated circuit design, manufacture and quality control; chemical processing and its relation to chemical principles; environmental engineering and chemical identification of minute impurities; environmental and transportation engineering and its relation to public health and public administration; water resources engineering and geo-hydrology; and biomedical engineering, to name only a few. The College collaborates with other academic units of the University in research activities and selectively educates students to become proficient in such interdisciplinary fields.



Dean's Office

Major



Materials Science and Engineering, M.S.M.S.E.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway

Contact Information

Colleges: Engineering

Departments:

Chemical & Biomedical Eng

Civil Engineering

Electrical Engineering

Industrial Engineering

Mechanical Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The field of Materials Science and Engineering applies the fundamental principles of physics and chemistry to engineering materials, with a focus on the interrelationship between material structure, their properties, and the means by which they are processed. MSE impacts multiple facets of our economy, such as aerospace, electronics, transportation, communication, construction, recreation, entertainment, environment and energy. It is, by its very nature, an interdisciplinary field. The goal of the M.S.M.S.E. major in Materials Science and Engineering is to provide a route for well-qualified undergraduate students who desire in-depth graduate-level work including structured courses and research experience, in preparation for work in industry or for entrance into a relevant science or engineering Ph.D. major.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Bachelor's degree in Engineering (Chemical, Mechanical, Industrial, Civil, Materials Science, Ceramic, Metallurgy, Manufacturing, Polymer and other related engineering disciplines) or Natural Sciences (Physics, Chemistry or Biology) from an accredited institution.
- GRE with preferred minimum scores of V 50%, Q 50% and AW 50%.
- Three letters of recommendation
- Statement of purpose

Curriculum Requirements

Total Minimum Hours: 30 Credit Hours

- **Core Requirements - 6 Credit Hours**
- **Electives - 18 Credit Hours**
- **Thesis/Non-Thesis - 6 Credit Hours**

At least 18 credit hours must be at 6000 level with a maximum of three (3) credit hours of Independent Study.

Core Requirements (6 Credit Hours)



- EMA 6510 Characterization of Materials **Credit Hours: 3**
- ECH 6107 Molecular Thermodynamics **Credit Hours: 3**

Electives (18 Credit Hours Minimum)

Students will select electives in consultation with the Graduate Director.

Comprehensive Exam

Students in the non-thesis track will complete a comprehensive exam. For students in the thesis track, the thesis and oral defense serve as the comprehensive exam.

Thesis Option (6 Credit Hours)

- ECH 6971 Thesis: Master's **Credit Hours: 2-19**

Non-Thesis Option (6 Credit Hours)

For Non-Thesis Option, six (6) additional credit hours of elective courses are required in lieu of thesis hours.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway

Graduate Certificate



Materials Science and Engineering Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

The purpose of the Materials Working Group is to bring together all research activities at the University of South Florida related to materials research. Since many departments, colleges, and institutes are conducting materials research, this group facilitates the transfer of new ideas and permits the maximum utilization of shared resources. This home page serves the important function of helping interested parties in materials related research activities locate expertise at USF, via links to both researcher and research group home pages. In addition, a link indicating some of the capital equipments located on-campus to support these graduate research activities is provided.

Location/Delivery

USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Five years

Pre-Requisites

None

Curriculum Requirements (15 Credit Hours)

GROUP A - Select one from below:

- PHY 6436 Applied Materials Physics **Credit Hours: 3**
- ECH 6931 Special Problems II **Credit Hours: 1-3**
Materials Engineering (3 Credit Hours)

GROUP B - select two courses from the list below (contact dept for additional offerings):

- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit Hours: 1-4**
Corrosion of Engineering Materials



Durability Issues in Cementitious Materials

- EML 6232 Composite Laminated Materials **Credit Hours: 3**
- BME 6108 Biomaterials II Biocompatibility **Credit Hours: 3**
- CES 5105C Advanced Mechanics of Materials I **Credit Hours: 3**
- PHA 6146 Introduction to Nanotechnology **Credit Hours: 3**
- EMA 5326 Corrosion Control **Credit Hours: 3**
- CHM 5452 Polymer Chemistry **Credit Hours: 3**
- PHZ 5405 Solid State Physics I **Credit Hours: 3**
- PHZ 6426 Solid State Physics II **Credit Hours: 3**
- EEE 6355 Compound Semiconductor Technology **Credit Hours: 3**
- EEL 6935 Selected Electrical Topics **Credit Hours: 1-3**
Wide Band Gap Semiconductor Technology I (3 Credit Hours)

GROUP C - Select two from the list below (contact dept for additional offerings)

- ECH 5931 Special Topics IV **Credit Hours: 1-4**
- EEE 5356 Integrated Circuit Technology **Credit Hours: 3**
- EML 6930 Special Problems I **Credit Hours: 1-3**
Special Problems 1: Electronic Manufacturing
- EEL 6357 Analog CMOS/VLSI Design **Credit Hours: 3**
Characterization of Defects in Electronic Materials
- EEE 6318 Characterization of Semiconductors **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Robotics Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

Robotics includes many technical aspects, such as mechatronics, kinematics, controls, programming, algorithm development, and more. This certificate in Robotics prepares students for work in robotics and exposes them to several facets of the field. The program allows for a focus on the hardware and modeling or the algorithms, all of which are the integral components of robotics.

Course Location/Delivery

Available fully and partially online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (13 Credit Hours)

13 Credit Hours are required.

Complete the following 4 credit hours of required coursework:

- EML 6801 Robotic Systems **Credit Hours: 3** OR CIS 6930 - Algorithms for Robotics Credit Hours 3
- CIS 6930 Special Topics **Credit Hours: 1-5** *Taken as Robotic Seminar (1 Credit Hour)*

And then select 9 credit hours of electives from the following list:

- EML 6273 Advanced Dynamics of Machinery **Credit Hours: 3**
- EML 6311 Advanced Controls **Credit Hours: 3**
- ESI 6681 Deep Learning Analytics **Credit Hours: 3**
- EEE 6777 Data Analytics **Credit Hours: 3**
- CAP 6615 Neural Networks **Credit Hours: 3**
- CAP 6663 IT Robotics Application **Credit Hours: 3**



- EEL 6935 Selected Electrical Topics **Credit Hours: 1-3**
Selected Topics course options:
- Advanced Data Analytics Credit hours: 3
- CAP 5400 Digital Image Processing **Credit Hours: 3**
- CAP 5625 Introduction to Artificial Intelligence **Credit Hours: 3**
- CAP 6415 Computer Vision **Credit Hours: 3**

Electives

Select 9 cr:

- EML 6594 Haptics **Credit Hours: 3**
- EML 6273 Advanced Dynamics of Machinery **Credit Hours: 3**
- CIS 6930 Special Topics **Credit Hours: 1-5**
- CIS 6930 Special Topics **Credit(s): 1-5**
- CIS 6930 Special Topics **Credit(s): 1-5**
- CAP 5400 Digital Image Processing **Credit Hours: 3**
- CAP 5625 Introduction to Artificial Intelligence **Credit Hours: 3**
- CAP 6415 Computer Vision **Credit Hours: 3**

Time Limit

5 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.



Systems Engineering Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The University of South Florida's Industrial and Management Systems Engineering department offers a fully online Graduate Certificate in Systems Engineering for individuals with technical backgrounds. This certificate program offers both quantitative and qualitative approaches to strengthen systems engineering credentials.

Course Location/Delivery

Online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

- EIN 6935 Special Industrial Topics II **Credit Hours: 1-3**
- EIN 6455

Electives

Select 2:

- ESI 5306 Operations Research for Engineering Management **Credit Hours: 3**
- ESI 5470
- ESI 5522 Computer Simulation **Credit Hours: 3**
- ESI 5236 Reliability Engineering **Credit Hours: 3**
- ESI 6213 Stochastic Decision Models I **Credit Hours: 3**
- ESI 6247 Statistical Design Models **Credit Hours: 3**
- ESI 6491 Linear Programming and Network Optimization **Credit Hours: 3**
- ESI 6324 Engineering the Supply Chain **Credit Hours: 3**



- EIN 6935

Time Limit

3 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Patricia Anzalone, Dan Nguyen, Gloria Hanshaw
panzalone@usf.edu, dannguyen@usf.edu, ghanshaw@usf.edu

URL

<http://imse.eng.usf.edu/>



Technology Management Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

The Industrial Systems Engineering department at USF offers a fully online certificate in Technology Management for individuals with technical backgrounds who desire to move into management. This certificate program teaches students how to combine qualitative approaches with quantitative methods resulting in a strengthening of engineering credentials and the development of managerial competency.

Location/Delivery

The Certificate is offered at the Tampa and Sarasota campuses and fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

No more than 12 credits may be applied; however, students must receive prior approval from the department for certificate classes to be applied toward a graduate degree program. Prospective MSEM students must meet all entrance requirements for the MSEM program before the course(s) will be transferred. Additionally, no class will be considered unless at least a "B" grade was obtained.

Time Limit / Average time to Completion

The department will determine the time limit, up to the five years established by University policy.

Pre-Requisites

None

Curriculum Requirements (15 Credit Hours)

This certificate requires completion of five (5) courses for a total of 15 semester hours. The student must obtain a grade of "C" or better in each class for it to be applied toward the Certificate. Students pursuing a graduate certificate will be required to meet the same academic requirements as those defined for degree-seeking students to remain in "good academic standing."

- EIN 5182 Principles of Engineering Management **Credit Hours: 3**
- EIN 6386 Management of Technological Change **Credit Hours: 3**

And select three courses from the following:

- ESI 5306 Operations Research for Engineering Management **Credit Hours: 3**
- EIN 5350 Technology and Finance **Credit Hours: 3**
- EIN 6108 EM-Human Relations **Credit Hours: 3**
- EIN 6319 Work Design and Productivity Engineering **Credit Hours: 3**



- EIN 6336 Production Control Systems **Credit Hours: 3**
- EIN 5174 Total Quality Management Concepts **Credit Hours: 3**
- EIN 6145 Project Management **Credit Hours: 3**
- EIN 6121 Technology and Markets **Credit Hours: 3**
- EIN 6106 Technology and Law **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Total Quality Management Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The University of South Florida's Industrial & Management Systems Engineering department offers a fully online graduate certificate in Total Quality Management.

Course Location/Delivery

Online, Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (15 Credit Hours)

Select 5:

- EIN 6936 Special Industrial Topics III **Credit Hours: 1-3**
- ESI 6225
- ESI 6247 Statistical Design Models **Credit Hours: 3**
- ESI 5236 Reliability Engineering **Credit Hours: 3**
- EIN 5174 Total Quality Management Concepts **Credit Hours: 3**
- EIN 6179 Advanced TQM Methods: Six Sigma **Credit Hours: 3**
- EIN 6178 ISO 9000/14000 **Credit Hours: 3**
- EIN 6935 Special Industrial Topics II **Credit Hours: 1-3**

Time Limit

2 years

Credit Toward Graduate Degree



The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Transportation System Analysis Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

The curriculum for the Transportation Systems Analysis graduate certificate provides an opportunity to advance one's credentials and knowledge in the field of transportation engineering. It includes extended knowledge in such areas as planning, analysis and design, all vital to transportation planners. Course offerings from Civil and Industrial Engineering provide a range of contemporary materials. Four courses (12 credits) are required to complete the certificate. The courses are offered on campus and via APEX distance learning.

Location/Delivery

The Certificate is offered at the Tampa campus and fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

There is a three (3) year time limit for completion of this certificate.

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- TTE 5501 Transportation Planning and Economics **Credit Hours: 3**

And select three courses from the following:

- TTE 5205 Traffic Systems Engineering **Credit Hours: 3**
- TTE 6315 Transportation Safety **Credit Hours: 3**
- TTE 6270 Intelligent Transportation Systems **Credit Hours: 3**
- TTE 6507 Travel Demand Modeling **Credit Hours: 3**
- TTE 6651 Public Transportation **Credit Hours: 3**
- TTE 6835 Pavement Design **Credit Hours: 3**
- EIN 6145 Project Management **Credit Hours: 3**

Contacts



Contact Information: <http://www.grad.usf.edu/cert>



Wireless Engineering Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This certificate recognizes post-bachelors preparation for engineering of modern wireless circuits, antennas and communication systems. The applicable course list allows significant flexibility to accommodate variability in student preparation, and course scheduling. The program allows emphasis to be placed in either circuits and antennas or systems and networks, while requiring exposure to both.

Course Location/Delivery

Online, Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

B.S. in Electrical Engineering or Computer Engineering (any other degree track must meet Engineering dept approval)

Application Process

To learn about the application process, and to access the application, please review our application process.

Requirements of this Certificate (12 Credit Hours)

12 credit hours required. Students may focus on one or more wireless engineering topics. Courses are to be selected under the supervision of the certificate progra advisor from the following options:

RF and Microwave Courses (2-9 Credits)

- EEL 5936 Special Electrical Engineering Topics II **Credit Hours: 1-3** Taken as: *Wireless Circuits and Systems Design Lab (WAMI Lab)* Credits: 3
- EEL 6426 RF and Microwave Circuits I **Credit Hours: 3**
- EEL 6427 RF and Microwave Circuits II **Credit Hours: 3**
- EEL 6425 RF and Microwave Measurements **Credit Hours: 2**
- EEL 5462 Antenna Theory **Credit Hours: 3**
- EEE 6368 RF/MW Power Amp Design **Credit Hours: 3**
- EEE 6369 MMIC Design **Credit Hours: 3**
- EEL 6935 Selected Electrical Topics **Credit Hours: 1-3**

Wireless Communications and Systems (2-9 Credits)



- EEL 6593 Mobile and Personal Communication **Credit Hours: 3**
- EEL 6597 Wireless Network Architecture and Protocols **Credit Hours: 3**
- EEL 6534 Digital Communication Systems **Credit Hours: 3**
- EEE 6502 Digital Signal Processing I **Credit Hours: 3**
- EEL 6722C DSP/FPGA Laboratory **Credit Hours: 3**
- EEL 6935 Selected Electrical Topics **Credit Hours: 1-3**
- EEL 6936 Special Topics **Credit Hours: 1-3**

Independent Study (1 Credit)

- EEL 6908 Independent Study **Credit Hours: 1-19**
(1 Credit needed in the event of a 2-credit course selected above)

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Department of Chemical and Biomedical Engineering

Major



Chemical Engineering, M.S.Ch.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Engineering

Department: Chemical & Biomedical Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Science in Chemical Engineering degree is usually awarded to a student who has an undergraduate degree in Chemical Engineering or strong evidence of undergraduate chemical engineering experience.

Major Research Areas:

The Chemical & Biomedical Engineering faculty research and development interest cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science and Engineering makes most majors in Chemical Engineering truly interdisciplinary.

The Department offers core courses in thermodynamics, transport phenomena, reacting systems, math, and process analysis and modeling. A rich variety of electives are available regularly within the department as well as the University. Chemical & Biomedical Engineering research facilities include modern laboratories for polymer synthesis and characterization, supercritical fluid technology, life sciences, process control, instrumentation, computer aided process design, and phase behavior.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE required with preferred minimum scores of Verbal greater than 50% percentile, Quantitative greater than 75th percentile, and Analytical Writing of 3.0 or greater. Applicants who have successfully completed the Fundamentals of Engineering (FE) Exam offered by the Society of Professional Engineers will be exempted from the GRE requirement.
- An undergraduate Bachelor's degree in Chemical Engineering or equivalent;
- Two (2) letters of reference; and
- Statement of research interests.

Curriculum Requirements

Total Minimum Hours: 30 Credit Hours Post-bachelors

- **Core Requirements – 12 Credit Hours**
- **Additional Course Requirements – 18 Credit Hours**

This degree requires an undergraduate degree in Chemical Engineering or strong evidence of undergraduate chemical engineering experience with a background in chemical engineering courses.



Core Requirements (12 Credit Hours)

- ECH 6107 Molecular Thermodynamics **Credit Hours: 3**
- ECH 6285 Advanced Transport Phenomena **Credit Hours: 3**
- ECH 6506 Chemical Engineering Kinetics **Credit Hours: 3**
- ECH 6840 Mathematical Methods for Chemical Engineering **Credit Hours: 3**

Additional Course Requirements (18 Credit Hours)

- Other 5000 or 6000 course or ECH 6907 Independent Study - Variable Title **Credit(s): 3**
- Other 5000 or 6000 course or ECH 6907 Independent Study - Variable Title **Credit(s): 3**
- Additional approved 5000 or 6000 ECH courses **Credit(s): 12**

Must have a minimum of 16 hours at 6000 level

Must have a minimum of 12 hours of ECH 6000 level

May include a maximum of 4 hours of independent study

Thesis Option (6 Credit Hours Minimum)

At least two (2) members of the Thesis committee must be from tenured or tenure track Chemical & Biomedical Engineering faculty.

- ECH 6971 Thesis: Master's **Credit Hours: 2-19 (6 credits for this program)**

Comprehensive Exam

All thesis option students are required to present their research and submit a thesis as part of their comprehensive examination.

All non-thesis option students are required to pass the Fundamentals of Engineering Examination offered by the Society of Professional Engineers.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway

Continuation to Ph.D. Program

Students wishing to continue on for a Ph.D. must apply to the Office of Graduate Studies.



Chemical Engineering, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Engineering

Department: Chemical & Biomedical Engineering

Contact Information: www.grad.usf.edu

Major Research Areas:

The Chemical & Biomedical Engineering faculty research and development interests cover a broad range of areas in reacting systems, thermodynamics, transport phenomena, systems engineering and characterization, all fundamental as well as applied in biomedical, materials including microelectronic, and environmental domains. Strong collaboration with the College of Medicine, Center of Microelectronic Research, as well as, Departments of Biology, Chemistry, Industrial Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Computer Science and Engineering makes most majors in Chemical Engineering truly interdisciplinary.

The Department offers core courses in thermodynamics, transport phenomena, reacting systems, math, and process analysis and modeling. A rich variety of electives are available regularly within the department as well as the University. Chemical & Biomedical Engineering research facilities include modern laboratories for polymer synthesis and characterization, supercritical fluid technology, life sciences, process control, instrumentation, computer aided process design, and phase behavior.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE required with preferred scores: Verbal greater than 50% percentile, Quantitative greater than 75% percentile and Analytical Writing of 4.0 or greater
- An undergraduate Bachelor's degree in Chemical Engineering or equivalent.
- Three (3) letters of reference.
- Statement of Research Interests.

Curriculum Requirements

Total Minimum hours:

For students with an *approved* master's degree: 42 hours minimum post-master's

For students without a master's degree: 72 hours minimum post-bachelor's

- **Core Requirements – 12 Credit Hours**
- **Additional Required Courses - 17 Credit Hours**
- **Electives – 25 Credit hours**
- **Dissertation hours – 18 Credit hours minimum (30 Credit hours maximum)**

Requires an undergraduate degree in Chemical Engineering. Complete Background courses in Chemical Engineering as needed.

Core Requirements (12 Credit Hours)



- ECH 6107 Molecular Thermodynamics **Credit Hours: 3**
- ECH 6285 Advanced Transport Phenomena **Credit Hours: 3**
- ECH 6840 Mathematical Methods for Chemical Engineering **Credit Hours: 3**
- ECH 6506 Chemical Engineering Kinetics **Credit Hours: 3**

Additional Course Requirements (17 Credit Hours)

- ECH 6931 Special Problems II **Credit Hours: 1-3 (8 credits for this program)**
Graduate Seminar Course (1 hour each; at least eight)
- Other 5000 or 6000 level Courses **Credit(s): 9**

Electives (25 Credit Hours)

The exact distribution of these hours will be determined by the student, graduate advisor, and the supervisory committee to provide the student with a stimulating educational experience.

Qualifying Examination

Qualifying Examination is to be completed by the end of the second year of study. If a student does not pass on the first attempt, he/she may request in writing to repeat the exam. Students who fail the Qualifying Examination the second time will be dismissed from the Ph.D. degree program

Dissertation (18 Credit Hours Minimum)

- ECH 7980 Dissertation: Doctoral **Credit Hours: 2-19**



Department of Civil and Environmental Engineering

Major



Civil Engineering, M.S.C.E.

Priority Admission Application Deadlines: <https://www.grad.usf.edu/majors>

Concentrations:

Engineering for International Development
Geotechnical
Materials
Structures
Transportation
Water Resources

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Engineering

Department: Civil and Environmental Engineering

Contact Information: <https://www.grad.usf.edu/majors>

The M.S.C.E. degree provides a student with the opportunity to earn the advanced degree with either coursework only or research thesis options. Students must have an accredited first degree in engineering or complete a list of prerequisite engineering coursework. The M.S.C.E. with thesis is a research-oriented degree in which the student writes, as a major part of the degree requirements, a thesis that defines, examines, and reports in depth on a subject area relevant to Civil Engineering. Both the thesis and non-thesis options prepare graduates for careers with governmental agencies, nongovernmental organizations (NGOs), or private industry and firms involved in Civil Engineering planning, design, or policy.

The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. Graduates of the major are prepared for careers with public agencies or private industry and with firms involved in planning, design, research and development, or regulation. The Department is well-equipped with structures, soils, pavement and hydraulics laboratories.

Accreditation

The Florida Board of Professional Engineers allows for successful completion of a graduate studies leading to Master's degree in engineering to provide credit toward one year of engineering experience.

Major Research Areas

Civil Engineering, including Engineering Mechanics, Geotechnical Engineering, Pavement Engineering, Materials Engineering and Science, Structural Engineering, Transportation Engineering and Planning, and Water Resources Engineering

Admission Information



Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Undergraduate degree in an Engineering discipline or completion of pre-requisites.
- Undergraduate GPA greater than 3.00 preferred.
- GRE with preferred minimum scores of V (25th percentile), Q (60th percentile), AW (15th percentile); or valid Fundamentals of Engineering (FE) or professional engineering (PE) certificate. Verification of FE or PE certification should be obtained from the PE board where the certification was obtained.
- Two Letters of Reference provided at the time of application.
- Statement of Purpose provided at the time of application.
- Resume provided at the time of application.
- Intake form: https://docs.google.com/forms/d/e/1FAIpQLSeN_MdTzEBtvJAUMLwOz8WRF1be-bUMg-pzot1FPJRS_b9PIA/viewform

Exceptions made on a case-by-case basis where warranted

Curriculum Requirements

Total Minimum Hours: 30 credit hours

- **Core Requirement: 4 credit hours**
- **Concentration: 15 credit hours**
- **Electives: 5 credit hours**
- **Thesis/Non-Thesis: 6 credit hours**

Core Requirements (4 Hours)

- CGN 6311C Introduction to Data Science for Civil Engineers **Credit Hours: 2**
- CGN 6162 Professional Practice of Civil Engineering **Credit Hours: 2**

Concentration Requirements (15 Credit Hours Minimum)

The Department supports M.S.C.E. concentration areas in Engineering for International Development (EFD), Geotechnical Engineering (GTL), Materials Engineering and Science (MTL), Structures Engineering (STR), Transportation Engineering (TPT), and Water Resources (WRS). Students may select from one of these concentrations, or may select no concentration.

Engineering for International Development (15 Credit Hours Minimum)

Students must engage in full-time global training and service as part of the concentration (e.g., in the U.S. Peace Corps, with a non-governmental organization, UNESCO-IHE, or equivalent). This work must be incorporated into the student's thesis. Students may register for CST 6990 for 0 credit hours while in their country of service. Note that this concentration is available to thesis option students only.

- ENV 6510 Sustainable Development Engineering **Credit Hours: 3**
- 3 additional graduate level credit hours of coursework in international development engineering or closely related areas.

A minimum of 1 course from the following applied anthropology courses: (3 Credit Hours)

- ANG 6766 Research Methods in Applied Anthropology **Credit Hours: 3**
- ANG 6730 Socio Cultural Aspects of HIV/AIDS **Credit Hours: 3**



- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3** (Health, Illness and Culture)

A minimum of one course from the following global public health courses: (3 Credit Hours)

- PHC 6764 Global Health Principles and Contemporary Issues **Credit Hours: 3**
- PHC 6761 Global Health Assessment Strategies **Credit Hours: 3**

Geotechnical (15 Credit Hours Minimum)

- CEG 5115 Foundation Engineering **Credit Hours: 3**
- CES 6118 Applied Finite Elements **Credit Hours: 3**
- 6 additional credit hours of coursework in Geotechnical engineering or closely related areas.

Materials (15 Credit Hours Minimum)

- 6 additional credit hours of coursework in Materials Engineering and Science or closely related areas.

At least 2 courses from the following list: (6 Credit Hours)

- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit Hours: 1-4** (Advanced Construction Materials)
- CGN 6720 Electrochemical Diagnostic Techniques **Credit Hours: 3**
- CES 6010 Structural Life Prediction **Credit Hours: 3**
- EMA 5326 Corrosion Control **Credit Hours: 3**
- EMA 6510 Characterization of Materials **Credit Hours: 3**

Structures (15 Credit Hours Minimum)

- 6 additional credit hours of coursework in Structures Engineering or closely related areas.

At least 1 course from the following list of design courses: (3 Credit Hours)

- CES 6706 Advanced Concrete Design **Credit Hours: 3**
- CES 6835 Design of Masonry Structures **Credit Hours: 3**
- CES 5715C Prestressed Concrete **Credit Hours: 3**

At least 1 course from the following list of analysis courses: (3 Credit Hours)

- CES 6118 Applied Finite Elements **Credit Hours: 3**
- CES 6230 Advanced Structural Mechanics **Credit Hours: 3**
- CES 6144 Advanced Structural Analysis **Credit Hours: 3**
- CES 5209 Structural Dynamics **Credit Hours: 3**

Transportation (15 Credit Hours Minimum)

- TTE 5205 Traffic Systems Engineering **Credit Hours: 3**
- TTE 5501 Transportation Planning and Economics **Credit Hours: 3**



- TTE 6507 Travel Demand Modeling **Credit Hours: 3**
or
- TTE 6307 Statistical and Econometric Methods I **Credit Hours: 3**
- 3 additional credit hours of coursework in Transportation Engineering or closely related areas.

Water Resources (WRS)(15 Credit Hours Minimum)

4 courses (12 credit hours) from the following list:

- CWR 6235 Free Surface Flow **Credit Hours: 3**
- CWR 6239 Waves and Beach Protection **Credit Hours: 3**
- CWR 6305 Urban Hydrology **Credit Hours: 3**
- CWR 6534 Coastal and Estuary Modeling **Credit Hours: 3**
- CWR 6535 Hydrologic Models **Credit Hours: 3**
- CWR 6105 Vadose Zone Hydrology **Credit Hours: 3**
- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit Hours: 1-4**
- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit(s): 1-4** (Groundwater Hydraulics)
- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit(s): 1-4** (Advanced Computational Fluid Mechanics)
- CWR 6820 Coastal Waves and Structures **Credit Hours: 3**
- CWR 6538 Advanced Hydrologic Models **Credit Hours: 3**
- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit(s): 1-4** (Advanced Numerical Methods)
- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit(s): 1-4** (Global Sustainability)
- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit(s): 1-4** (Ecological Engineering)

Comprehensive Exam

For Thesis Option: The thesis and defense are used in lieu of a comprehensive exam.

For Non-Thesis Option: Portfolio and oral interview are used in lieu of a comprehensive exam. The purpose of the portfolio and interview is for students to demonstrate that they have achieved a minimum level of proficiency in stipulated competencies. Specifically, by the time they graduate, students will demonstrate:

- an ability to plan, compose and integrate verbal, written, virtual, and graphical communication of a project to technical and non-technical audiences, and
- an ability to formulate and solve complex problems in Civil Engineering using relevant data and techniques.

Additional details regarding portfolio requirements will be provided to students by the Department.

Other Requirements

- A maximum of 12 graduate level credits taken outside the CEE department may be applied to meet the degree requirements.
- A maximum of 6 credits of independent study may be applied to meet the degree requirements.

Electives (5 Credit Hours Minimum)

Electives selected in consultation with advisor.



Thesis (6 Credit Hours Minimum)

Students must conduct a suitable research project under the guidance of their thesis advisor, write an original thesis based upon the results of the research project, and defend the thesis to a committee that must subsequently approve the completed thesis. For students in the EFD concentration, the thesis must be associated with research in a developing-world context.

Non-Thesis Option – 6 hours

Six credits of elective courses

- CGN 6971 Thesis: Master's **Credit Hours: 2-19**
6 hours minimum

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Civil Engineering, Ph.D.

Priority Admission Application Deadlines: <https://www.grad.usf.edu/majors>

Concentrations:

Engineering for International Development
Environmental Engineering
Geotechnical
Materials
Structures
Transportation
Water Resources

Contact Information

College: Engineering

Department: Civil and Environmental Engineering

Contact Information: <https://www.grad.usf.edu/majors>

The Ph.D. degree is awarded in recognition of demonstrated scholarly competence and ability to conduct and report original and significant research in Civil Engineering.

The field of Civil Engineering has long been known for its breadth and ability to adapt to the new technological needs of society. The traditional areas of public works, such as highways, bridges, water supply, building design, and wastewater treatment, remain very important. In addition, the modern area of managing the environment, including sustainable development, has been included in the Civil Engineering domain. Graduates of the major are prepared for careers in academia, with public agencies, or with private industry, including firms involved in planning, design, research and development, or regulation.

Ph.D. students may work in any of the areas of Civil Engineering, including Engineering Mechanics, Environmental Engineering, Geotechnical Engineering, Pavement Engineering, Materials Engineering and Science, Structures Engineering, Transportation Engineering and Planning, and Water Resources Engineering.

Accreditation

The Florida Board of Professional Engineers allows for successful completion of a graduate studies leading to Ph.D, degree in engineering to provide credit toward two year of engineering experience.

Major Research Areas:

Civil Engineering, including Engineering Mechanics, Environmental Engineering, Geotechnical Engineering, Pavement Engineering, Materials Engineering and Science, Structures Engineering, Transportation Engineering and Planning, and Water Resources Engineering.

The department has a high bay structures laboratory, which includes an MTS 250 kip testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment for water and air quality analysis, bench and pilot scale reactor studies, field instrumentation for environmental and water resources studies, constant rate of stress consolidometer, triaxial units, and Superpave testing equipment.

Admission Information



Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Undergraduate GPA greater than 3.30 preferred
- GRE with V (45th percentile), Q (75th percentile), and AW (55th percentile)
- Resume provided at the time of application.
- Three (3) letters of reference provided at the time of application
- Statement of Purpose provided at the time of application
- Intake form https://docs.google.com/forms/d/e/1FAIpQLSeN_MdTzEBtvJAUMLwOz8WRF1be-bUMg-pzot1FPJRS_b9PIA/viewform
- Exceptions made on a case-by-case basis where warranted.

Curriculum Requirements

Total Program Hours:

78 hours minimum post-bachelor's

48 hours minimum post-master's

- **Core requirement – 4 Credit hours**
- **Concentration – 15 Credit hours**
- **Electives – 30 Credit hours**
- **Dissertation – 20 Credit hours**
- **Other course requirement – 9 Credit hours**

Core Requirement (4 Credit Hours)

- CGN 6311C Introduction to Data Science for Civil Engineers **Credit Hours: 2**
- CGN 6945 Graduate Research Methods in Civil & Environmental Engineering **Credit Hours: 2**

Concentration Requirements (15 Credit Hours Minimum)

Students may select from one of these concentrations.

Engineering for International Development (15 Credit Hours)

Students must engage in full-time global training and service as part of the concentration (e.g., in the U.S. Peace Corps, with a non-governmental organization, UNESCO-IHE, or equivalent). This work must be incorporated into the student's dissertation. Note that a student may register for CST 6990 for 0 credit hours while in their country of service.

- ENV 6510 Sustainable Development Engineering **Credit Hours: 3**

A minimum of 1 course from the following applied anthropology courses: (3 Credit Hours)

- ANG 6766 Research Methods in Applied Anthropology **Credit Hours: 3**
- ANG 6730 Socio Cultural Aspects of HIV/AIDS **Credit Hours: 3**
- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3** (Health, Illness, and Culture)

A minimum of 1 course from the following global public health courses: (3 Credit Hours)



- PHC 6764 Global Health Principles and Contemporary Issues **Credit Hours: 3**
- PHC 6761 Global Health Assessment Strategies **Credit Hours: 3**

Additional 6 graduate level credit hours of coursework in EFD or closely related areas

Environmental (15 Credit Hours)

- ENV 6002 Physical and Chemical Principles in Environmental Engineering **Credit Hours: 3**
- EES 6107 Biological Principles of Environmental Engineering **Credit Hours: 3**
- ENV 6666 Aquatic Chemistry **Credit Hours: 3**

At least one course from the following:

- ENV 6617 Green Engineering for Sustainability **Credit Hours: 3**
- ENV 6070 Resilient and Sustainable Infrastructure (RESIN) **Credit Hours: 3**
- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit Hours: 1-4**
ENVISION Sustainable Communities (3 Credit Hours) (Proposed)
- ENV 6510 Sustainable Development Engineering **Credit Hours: 3**
3 Additional credit hours of graduate coursework in Environmental Engineering

Geotechnical (15 Credit Hours)

- CEG 5115 Foundation Engineering **Credit Hours: 3**
- CES 6118 Applied Finite Elements **Credit Hours: 3**
- Additional 9 graduate level credit hours of coursework in Geotechnical Engineering or closely related areas

Materials (15 Credit Hours)

- Additional 9 graduate level credit hours of coursework in Materials Engineering and Science or closely related areas

At least 2 courses from the following list: (6 Credit Hours)

- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit Hours: 1-4 (3 credits for this program)**
(Advanced Construction Materials)
- CGN 6720 Electrochemical Diagnostic Techniques **Credit Hours: 3**
- CES 6010 Structural Life Prediction **Credit Hours: 3**
- EMA 5326 Corrosion Control **Credit Hours: 3**
- EMA 6510 Characterization of Materials **Credit Hours: 3**

Structures (15 Credit Hours)

1 course from the following list of courses: (3 Credit Hours)

- CES 6706 Advanced Concrete Design **Credit Hours: 3**
- CES 6835 Design of Masonry Structures **Credit Hours: 3**
- CES 5715C Prestressed Concrete **Credit Hours: 3**



1 course from the following list of courses: (3 Credit Hours)

- CES 6118 Applied Finite Elements **Credit Hours: 3**
- CES 6230 Advanced Structural Mechanics **Credit Hours: 3**
- CES 6144 Advanced Structural Analysis **Credit Hours: 3**
- CES 5209 Structural Dynamics **Credit Hours: 3**
- EGN 6333 Continuum Mechanics **Credit Hours: 3**
Additional 9 graduate level credit hours of coursework in Structures Engineering or closely related areas

Transportation (15 Credit Hours)

- TTE 5205 Traffic Systems Engineering **Credit Hours: 3**
- TTE 5501 Transportation Planning and Economics **Credit Hours: 3**
- TTE 6507 Travel Demand Modeling **Credit Hours: 3**
- Additional 6 graduate level credit hours of coursework in Transportation Engineering or closely related areas

Water Resources (15 Credit Hours)

A minimum of 4 courses from the following list: (12 Credit Hours)

- CWR 6235 Free Surface Flow **Credit Hours: 3**
- CWR 6239 Waves and Beach Protection **Credit Hours: 3**
- CWR 6305 Urban Hydrology **Credit Hours: 3**
- CWR 6534 Coastal and Estuary Modeling **Credit Hours: 3**
- CWR 6535 Hydrologic Models **Credit Hours: 3**
- CWR 6105 Vadose Zone Hydrology **Credit Hours: 3**
- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit Hours: 1-4 (3 credits for this program)** (Groundwater Hydraulics)
- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit(s): 1-4 (3 credits for this program)** (Advanced Computational Fluid Mechanics)
- GLY 6836 Numerical Modeling of Hydrogeologic Systems **Credit Hours: 3**
- GLY 6827C Advanced Hydrogeology **Credit Hours: 4**
- CWR 6820 Coastal Waves and Structures **Credit Hours: 3**
- CWR 6538 Advanced Hydrologic Models **Credit Hours: 3**

Electives (30 Credit Hours)

Graduate level electives are selected in consultation with the student's major research advisor and/or advisory committee

- No more than 9 credit hours of Independent Study may be applied to meet the coursework requirement.
- No more than 6 credit hours of thesis may be applied to meet the coursework requirement.
- Directed research and/or dissertation credits may not be counted towards the coursework requirement.

Qualifying Exam

Doctoral students are expected to pass a qualifying examination no later than the semester following the completion of 48 credits of coursework beyond a bachelor's degree. At minimum, the exam will include a written dissertation proposal and oral defense by the



dissertation committee. A written exam in the area of concentration may also be required. Poor performance on the qualifying exam based on the judgment of the committee may result in the student failing the exam. If a student does not pass on the first attempt, he/she may request in writing to repeat the exam. Students who fail the Qualifying examination the second time will be dismissed by the Major.

Dissertation Requirements (20 Credit Hours Minimum)

A minimum of 20 credits of dissertation, an approved PhD dissertation, and a dissertation defense are required. Students may not sign up for dissertation credits until they have defended their proposal and advanced to candidacy (see Qualifying Exam, above).

- CGN 7980 Dissertation Doctoral **Credit Hours: 2-19 (20 credits for this program)**

Additional Requirements (9 Credit Hours Minimum)

Nine (9) credits of additional graduate level coursework, dissertation, or directed research are required.

Publication Requirement

Students must have at least one paper accepted to a peer-reviewed journal or peer-reviewed conference based on their research carried out during their doctoral studies at USF.



Environmental Engineering, M.S.E.V.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentration

Engineering for International Development

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Engineering

Department: Civil and Environmental Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The M.S.E.V. degree provides a student with the opportunity to earn the advanced degree with either coursework only or research thesis options. Students must have an accredited first degree in engineering or complete a list of prerequisite engineering coursework. An optional concentration in Engineering for International Development allows students to combine their graduate education and research with international engineering service. The M.S.E.V. with thesis is a research-oriented degree in which the student writes, as a major part of the degree requirements, a thesis that defines, examines, and reports in depth on a subject area relevant to Environmental Engineering. Both the thesis and non-thesis options prepare graduates for careers with governmental agencies, nongovernmental organizations (NGOs), or private industry and firms involved in Environmental Engineering planning, design, or policy. The environmental engineering laboratories provide state-of-the-art analytical and experimental equipment for chemical and biological research. Equipment includes an ion chromatograph, atomic absorption spectrophotometer, several gas chromatographs (including with mass spectrometry), HPLC, TOC machine, and environmental chambers. Field research sites are available locally and in several international settings that include developing world communities. Graduates of the major are prepared for careers in academia, governmental agencies, nongovernmental organizations (NGOs), or private industry and firms involved in planning, design, research and development, or policy.

Accreditation:

The Florida Board of Professional Engineers allows for successful completion of a graduate studies leading to Master's degree in engineering to provide credit toward one year of engineering experience.

Major Research Areas:

Water quality engineering; air quality engineering; fate and transport of contaminants in the environment; environmental biotechnology and nanotechnology; waste management; sustainability and ecological engineering; surface water hydrology and hydraulics; groundwater hydrology; water reuse; green engineering; renewable energy; fate of emerging contaminants; and humanitarian engineering with a focus on the developing world.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.



- GRE with preferred minimum scores of V (25th percentile), Q (60th percentile), AW (15th percentile); or valid Fundamentals of Engineering (FE) certificate. Verification of FE certification should be obtained from the professional engineering (PE) board where the FE certification was obtained.
- Two (2) Letters of Reference provided at the time of application. EFD students must submit 3 Letters of Reference.
- Statement of Purpose provided at the time of application.
- Resume provided at the time of application.
- Exceptions made on a case-by-case basis where warranted.
- Intake form https://docs.google.com/forms/d/e/1FAIpQLSeN_MdTzEBtvJAUMLwOz8WRF1be-bUMg-pzot1FPJRS_b9PIA/viewform

Curriculum Requirements

Total Minimum Hours - 30 Credit hours

- **Core courses – 9 Credit hours**
- **Other required courses – 3 Credit hours**
- **Concentration or Electives - 12 Credit hours**
- **Thesis or Non-thesis Option – 6 Credit hours**

Core Courses (9 Credit Hours)

- ENV 6002 Physical and Chemical Principles in Environmental Engineering **Credit Hours: 3**
- EES 6107 Biological Principles of Environmental Engineering **Credit Hours: 3**
- ENV 6666 Aquatic Chemistry **Credit Hours: 3**

Other required courses (3 Credit Hours Minimum)

At least one of the following:

- ENV 6617 Green Engineering for Sustainability **Credit Hours: 3**
- ENV 6070 Resilient and Sustainable Infrastructure (RESIN) **Credit Hours: 3**
- ENV 6510 Sustainable Development Engineering **Credit Hours: 3**
- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit Hours: 1-4 (3 credits for this program)** (Resilient Infrastructure for Sustainable Communities)

Concentration Requirements (12 Credit Hours Minimum)

Students select either the concentration or electives.

Engineering for International Development Concentration (12 Credit Hours Minimum)

Students must engage in full-time global training and service as part of the concentration (e.g., in the U.S. Peace Corps, with a nongovernmental organization, UNESCO-IHE, or equivalent). This work must be incorporated into the student's thesis. Students may register for CST 6990 for 0 credit hours while in their country of service. Note that this concentration is not open for non-thesis option students.

- ENV 6510 Sustainable Development Engineering **Credit Hours: 3**



A minimum of 1 course (3 credits) from the following applied anthropology courses:

- ANG 6766 Research Methods in Applied Anthropology **Credit Hours: 3**
- ANG 6730 Socio Cultural Aspects of HIV/AIDS **Credit Hours: 3**
- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3**

A minimum of 1 course (3 credits) from the following global public health courses:

- PHC 6761 Global Health Assessment Strategies **Credit Hours: 3**
- PHC 6764 Global Health Principles and Contemporary Issues **Credit Hours: 3**

A minimum of 1 course (3 credits), chosen with approval of the student's graduate committee.

Elective Courses (12 Credit Hours Minimum)

Beyond the core coursework, 12 additional credit hours are required, based on approval of the student's graduate committee. Students in the EFD Concentration complete the concentration requirements and then one elective course.

Thesis/Non-Thesis (6 Credit Hours Minimum)

- CGN 6971 Thesis: Master's **Credit Hours: 2-19**
Students pursuing the M.S.E.V. are required to complete at least six (6) credits of Thesis. Students must conduct a suitable research project under the guidance of their thesis advisor, write an original thesis based upon the results of the research project, and defend the thesis to a committee that must subsequently approve the completed thesis. For students in the EFD Concentration, the thesis must be associated with research in a developing-world context.

Non-Thesis Portfolio Option – 6 hours minimum

At least two courses (6 credits) must be from this list:

- ENV 6105 Air Pollution Fundamentals **Credit Hours: 3**
- ENV 6438 Physical & Chemical Processes for Treatment of Drinking Water **Credit Hours: 3**
- ENV 6519 Physical and Chemical Processes for Groundwater Remediation **Credit Hours: 3**
- ENV 6564 Environmental Engineering Design **Credit Hours: 3**
- ENV 6667 Environmental Biotechnology **Credit Hours: 3**

The purpose of the portfolio presentation and interview is for students to demonstrate that they have achieved a minimum level of proficiency in stipulated competencies. Specifically, by the time they graduate, students will demonstrate:

- an ability to plan, compose, and integrate verbal, written, virtual, and graphical communication of a project to technical and non-technical audiences, and
 - an ability to formulate and solve complex problems in Environmental Engineering using relevant data and techniques.
- Additional details regarding portfolio requirements will be provided to students by the Department.

Comprehensive Exam

The thesis and defense are used in lieu of a comprehensive exam. For non-thesis students, the portfolio, oral presentation and interview are used in lieu of a comprehensive exam.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Environmental Engineering, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentration:

Engineering for International Development

Contact Information

College: Engineering

Department: Civil and Environmental Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. degree is awarded in recognition of demonstrated scholarly competence and ability to conduct and report original and significant research in Environmental Engineering.

The field of Environmental Engineering has long been known for its breadth and ability to adapt to the new technological, societal, and global problems facing the environment. Major research areas include water quality engineering; air quality engineering; fate and transport of contaminants in the environment; environmental biotechnology and nanotechnology; waste management; sustainability and ecological engineering; surface water hydrology and hydraulics; groundwater hydrology; water reuse; green engineering; renewable energy; fate of emerging contaminants; and humanitarian engineering with a focus on the developing world. Graduates of the major are prepared for careers in academia, governmental agencies, nongovernmental organizations (NGOs), or private industry and firms involved in planning, design, research and development, or policy.

Accreditation:

The Florida Board of Professional Engineers allows for successful completion of a graduate studies leading to Ph.D., degree in engineering to provide credit toward two year of engineering experience.

Major Research Areas:

Water quality engineering; air quality engineering; fate and transport of contaminants in the environment; environmental biotechnology and nanotechnology; waste management; sustainability and ecological engineering; surface water hydrology and hydraulics; groundwater hydrology; water reuse; green engineering; renewable energy; fate of emerging contaminants; and humanitarian engineering with a focus on the developing world.

The environmental engineering laboratories provide state-of-the-art analytical and experimental equipment for chemical and biological research. Equipment includes an ion chromatograph, atomic absorption spectrophotometer, several gas chromatographs (including with mass spectrometry), HPLC, TOC machine, and environmental chambers. Field research sites are available locally and in several international settings that include developing world communities.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Undergraduate GPA greater than 3.3 preferred;
- GRE with preferred minimum scores of V (45th percentile), Q (75th percentile) AW (55th percentile)
- Resume provided at the time of application
- Three (3) letters of reference provided at the time of application
- Statement of Purpose provided at the time of application



- Intake form https://docs.google.com/forms/d/e/1FAIpQLSeN_MdTzEBtvJAUMLwOz8WRF1be-bUMg-pzot1FPJRS_b9PIA/viewform
- Exceptions made on a case-by-case basis where warranted.

Curriculum Requirements

Total Minimum Hours:

78 hours minimum post-bachelors

48 hours minimum post-masters

- Core course requirements - 9 credit hours
- Other required courses - 5 credit hours
- Concentration (if any) - 9 credit hours
- Electives - 27 credit hours minimum
- Dissertation - 20 credit hours minimum
- Other requirements - 8 credit hours minimum

Core Course requirements (9 Credit Hours)

- ENV 6002 Physical and Chemical Principles in Environmental Engineering **Credit Hours: 3**
- EES 6107 Biological Principles of Environmental Engineering **Credit Hours: 3**
- ENV 6666 Aquatic Chemistry **Credit Hours: 3**

Other required courses (5 Credit Hours)

- CGN 6945 Graduate Research Methods in Civil & Environmental Engineering **Credit Hours: 2**

1 course (3 credits) from the following list of sustainability courses:
 - ENV 6617 Green Engineering for Sustainability **Credit Hours: 3**
 - ENV 6510 Sustainable Development Engineering **Credit Hours: 3**
 - CGN 6933 Special Topics in Civil and Environmental Engineering **Credit Hours: 1-4**
Resilient Infrastructure for Sustainable Communities (3 Credit Hours)
ENVISION Sustainable Communities (3 Credit Hours)

Concentration Requirements (9 Credit Hours Minimum)

Students may opt to complete the concentration or an additional 9 hours of coursework as noted below.

Engineering for International Development (9 Credit Hours)

This Concentration acknowledges coursework and international field experience in the area of engineering for international development that considers issues of sustainable development, water, sanitation, and health (WaSH), gender, and society. This graduate concentration requires:

1. coursework in global health, applied anthropology (medical, environmental, and development), and Water, Sanitation, Hygiene (WaSH) engineering,
2. a development-focused research component, and



3. a long-term overseas field experience in sustainable development as a WaSH engineer, which in most cases will form part of the basis of the student's dissertation. The international field experience allows a student to remain enrolled as a full-time student (with zero tuition/fees) and gain development experience serving with Peace Corps and Nongovernmental Development Organizations. Graduates are competitive for employment in the global WaSH development field.

Students engaged in full-time global training and/or service as part of the EFD Concentration (e.g., in the U.S. Peace Corps, with a nongovernmental organization, UNESCO-IHE, or equivalent) may register for CST 6990 for 0 credit hours while in their country of service/research.

- ENV 6510 Sustainable Development Engineering **Credit Hours: 3**

A minimum of 1 course from the following applied anthropology courses: (3 Credit Hours)

- ANG 6766 Research Methods in Applied Anthropology **Credit Hours: 3**
- ANG 6730 Socio Cultural Aspects of HIV/AIDS **Credit Hours: 3**
- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3** *Health, Illness and Culture (3 Credit Hours)*

A minimum of 1 course from the following global public health courses: (3 Credit Hours)

- PHC 6764 Global Health Principles and Contemporary Issues **Credit Hours: 3**
- PHC 6761 Global Health Assessment Strategies **Credit Hours: 3**

Electives (27 Credit Hours Minimum)

Students complete an additional 27 credits of coursework if in the Concentration, or an additional 36 credits of coursework if not in the Concentration, in Environmental Engineering or related areas, of which at least 3 credits must be structured coursework in Environmental Engineering specifically. These credits may include up to 9 credits of Independent Study and/or 6 units of Master's Thesis, pending the approval of the Department, the College, and the Office of Graduate Studies. Directed research and/or dissertation credits may not be counted towards this coursework requirement.

Qualifying Exam

Doctoral students are expected to pass a qualifying examination no later than the semester following the completion of 48 credits of coursework beyond a bachelor's degree. At minimum, the Exam will include a written dissertation proposal and oral defense by the Dissertation Committee. A written exam in the area of concentration may also be required. Poor performance on the Qualifying Exam based on the judgment of the Committee may result in the student failing the exam. If a student does not pass on the first attempt, he/she may request in writing to repeat the Exam. Students who fail the Qualifying Examination the second time will be dismissed by the Major.

Dissertation Requirements (20 Credit Hours Minimum)

A minimum of 20 credits of dissertation hours, an approved Ph.D. dissertation, and a dissertation defense are required. Students may not sign up for dissertation credits until they have defended their proposal and advanced to candidacy (see Qualifying Exam, above). For EFD Concentration, at least one chapter of the dissertation should be on the international fieldwork.

- CGN 7980 Dissertation Doctoral **Credit Hours: 2-19 (20 credits for this program)**

Other Requirements (8 Credit Hours Minimum)

Eight (8) credits of additional coursework, dissertation, or directed research are required.



Students must have at least one paper accepted to a peer-reviewed journal or peer-reviewed conference based on their research carried out during their doctoral studies at USF.



Department of Electrical Engineering

Major



Electrical Engineering, M.S.E.E.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Engineering

Department: Electrical Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The Department of Electrical Engineering offers both doctoral and masters level degrees. The major areas of research and instruction in the Department are: semiconductor materials, microelectronic manufacturing, MEMS, nanotechnology, VLSI design, digital signal processing, communication theory, wireless communications, microwave engineering, power systems and controls, network theory, cyber security, and biomedical materials and imaging. The Department's research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, thin dielectric films, communications and signal processing, power systems, nanotechnology, MEMS, micro/millimeter waves, biomedical materials and imaging, and bio-electrical engineering.

Current and previous Ph.D. dissertations explored the areas of microelectronics (materials and devices of elemental and compound semiconductors, circuit design, modeling, testing, and reliability); communications and signal processing (communication networks, packet switching, satellite communications, communications software, and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics, electromagnetic, microwave and millimeter-wave engineering (antennas, devices, systems); and biomedical engineering. Master's majors include options in semiconductor materials and processes, VLSI design, communications and signal processing, power systems and controls, microwave and millimeter-wave engineering, networks and machine learning, cyber systems, and biomedical engineering.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Three Letters of Recommendation
- Resume
- Statement of Purpose

Curriculum Requirements

Total Minimum Hours - 30 Credit Hours

- **Core Requirements - 4 Credit Hours**
- **Track Required Courses - 14 Credit Hours**
- **Thesis or additional electives - 6 Credit Hours Minimum**
- **Remaining credits (usually additional electives) - 6 Credit Hours Minimum**

Overall students must have a minimum of 21 or 24 credits respectively of graded coursework in the Department, according to Thesis or Non-Thesis classification.



Core Requirements (4 Credit Hours)

Students must take the following applied mathematics courses as part of the degree program:

- EEE 6542 Random Processes in Electrical Engineering **Credit Hours: 2**
EEL 6xxx Linear and Matrix Algebra **Credit Hours 2** (Proposed as EEL 6029)

Track Coursework (14 Credit Hours Minimum)

Students complete at least 14 credit hours of graduate coursework in one of the following tracks, selected in consultation with the Track Advisor:

Biomedical
Communication and Signal Processing
Control Theory
Energy-Power
Microelectronics
Systems and Security
Wireless & Microwave
General Track

Electives (3 Credit Hours Minimum)

Students opting for the non-thesis option complete a minimum of six (6) departmental elective credits, whereas thesis students must complete a minimum of three (3) credits beyond the track requirements in the department.

Students may adopt suggested electives from the Department Graduate Handbook, by track or emphasis area of their choice. All courses must be graduate level. Students should refer to university requirements when choosing courses bearing in mind allowed quantities of 5000 and 6000 level coursework.

Comprehensive Exam

The University requires all Master's students to be assessed by a comprehensive examination. The Department maintains two versions of this exam according to the student pathway to degree, i.e. Thesis or Non-Thesis as follows:

Thesis students:

Student's written thesis and Public Defense of same constitute the comprehensive exam. Student is provided a rubric that they will be assessed by relative to their written document and presentation. The Committee reports this assessment to the Department for final approval.

Non-Thesis Students:

In lieu of the Comprehensive Exam, a portfolio addressing the content from the core math courses (two courses) and required track courses (four courses from the track requirements) in the primary area of study must be successfully completed to graduate. Students are provided two attempts, beginning the semester prior to the intended graduation semester to pass this examination. Groups of department faculty grade each portfolio according to the overall quality of the writing, the clarity of the explanation of how the learning outcomes were achieved, and the quality of the examples that are included.



Thesis (6 Credit Hours Minimum)

- EEL 6971 Thesis: Master's **Credit Hours: 2-19 (6 credits for this program minimum)**

Students may complete up to nine (9) hours of thesis, reducing the required department course credits from 24 to 21 credit hours.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Electrical Engineering, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Engineering

Department: Electrical Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The Department of Electrical Engineering offers both doctoral and masters level degrees. The major areas of research and instruction in the Department are: semiconductor materials, microelectronic manufacturing, MEMS, nanotechnology, VLSI design, digital signal processing, communication theory, wireless communications, microwave engineering, power systems and controls, network theory, cyber security, and biomedical materials and imaging. The Department's research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, thin dielectric films, communications and signal processing, power systems, nanotechnology, MEMS, micro/millimeter waves, biomedical materials and imaging, and bio-electrical engineering.

Current and previous Ph.D. dissertations explored the areas of microelectronics (materials and devices of elemental and compound semiconductors, circuit design, modeling, testing, and reliability); communications and signal processing (communication networks, packet switching, satellite communications, communications software, and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics, electromagnetic, microwave and millimeter-wave engineering (antennas, devices, systems); and biomedical engineering. Master's majors include options in semiconductor materials and processes, VLSI design, communications and signal processing, power systems and controls, microwave and millimeter-wave engineering, networks and machine learning, cyber systems, and biomedical engineering.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE (with preferred minimum scores of Q greater than 155 (61%) , V greater than 146 (28%))
- Three (3) Letters of Reference
- Statement of Purpose

Curriculum Requirements

Total Minimum Hours: 72 post-bacc; 42 post-masters

- **Core Requirements - 4 Credit Hours**
- **Additional Required Courses - 34 Credit Hours**
- **Electives/Directed Research - 14 Credit Hours**
- **Dissertation - 20 Credit Hours**

Note: Students entering the doctoral major with an earned master's degree from another institution, other than USF, must take at least nine (9) credit hours of 6000 level EE courses at USF. The student's supervisory committee is responsible for evaluating his/her overall transcript to ensure that the distributional requirements are met. Please contact Electrical Engineering for additional information.



Core Requirements (4 Credit Hours)

Students must take the following applied mathematics courses (4 Credit Hours):

- EEE 6542 Random Processes in Electrical Engineering **Credit Hours: 2**
EEL 6xxx Linear and Matrix Algebra Credit Hours: 2 (Proposed as EEL 6029)

Additional Required Courses (34 Credit Hours)

Minimum 34 hours of formal regularly scheduled graduate course work, including a minimum of eight (8) hours of math post baccalaureate, in the engineering area of study, or other graduate courses associated with electrical engineering as approved by the Graduate Director, (not necessarily electrical engineering courses).

Electives/Directed Research/Independent Study (14 Credit Hours)

Students complete graduate electives, Directed Research, or Independent Study, or a combination thereof.

Comprehensive Qualifying Exam

Passing a Doctoral Qualifying Exam is required of all doctoral students by USF. The purpose of the exam is to measure the aptitude and capability of the student for productive independent research in electrical engineering, as well as to demonstrate the student's in-depth knowledge of their chosen research domain.

The exam consists of a written research paper comprising an annotated literature survey in the student's chosen research area, a discussion and comparison of the prior art in this field, and identification of a promising research area and problem domain(s) of interest to the student and advisor. The research paper is presented in a meeting to a Qualifying Exam examining committee that is selected by the Graduate Program Coordinator in consultation with the major professor.

Candidacy

After satisfactory completion of the Doctoral Qualifying Examination, the student shall submit an Application to Candidacy form to the Graduate School. Doctoral students are not allowed to register for dissertation hours until the semester AFTER they have been admitted to candidacy. Directed research hours cannot be exchanged for dissertation hours. All course work must be completed by the semester before a student is admitted to candidacy. After students are admitted to candidacy, they do not register for directed research hours again. Doctoral students must be registered the semester they apply for candidacy. No incomplete or missing grades are allowed. See the Office of Graduate Studies web site for deadlines and forms.

Dissertation (20 Credit Hours Minimum)

Each Professor will have his/her own section for dissertation hours.

- EEL 7980 Dissertation: Doctoral **Credit Hours: 2-19**

Dissertation Defense

The final oral defense of the dissertation is the final exam for the Ph.D. degree. The student's major professor is the best guide to the preparation for the defense and in preparing the student to tackle the final defense of the dissertation. The student should be aware that



the defense will be graded according to the doctoral rubric and that the committee decision is to either pass or fail the dissertation defense.

Department Handbook

Full information regarding the content of the doctoral program and policies/procedures can be found in the Electrical Engineering Graduate Program Handbook.



Department of Engineering Computer Science

Major



Computer Engineering, M.S.C.P.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Engineering

Department: Computer Science and Engineering

Contact Information: www.grad.usf.edu

The Department of Computer Science and Engineering offers both a thesis and non-thesis option for the degree of Master of Science in Computer Engineering (M.S.C.P.). The thesis option requires students to pursue a more concentrated range of topics, while the non-thesis option allows students to explore various areas of computer engineering. There is considerable freedom in the choice of the courses.

The breadth of subjects that comprise computer engineering together with the immense diversity of its applications, make it imperative that students in the Master's major maintain close contact with the Graduate Director, or, if choosing the thesis option, with their major professor to achieve a coherent plan of study directed towards a specific goal. In particular, selection of courses should only be made with prior consultation and approval of the major professor or the Graduate Director.

Major Research Areas:

An excellent selection of courses and laboratories support graduate studies in algorithms, artificial intelligence, machine learning, data mining, computer architecture, graphics, networks, computer vision, distributed systems, embedded systems, expert systems, formal verification, image processing, pattern recognition, robotics, databases, software engineering, computer security, compilers, programming languages, and VLSI design and CAD.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- The GRE is required for all Ph.D. and M.S. applicants. The median GRE scores of recently admitted students include 770 on the Quantitative portion and a Verbal Total of 450. For GRE tests taken after August 1, we require a minimum of 161 on the Quantitative portion (81st percentile) and a minimum of 150 (44th percentile) on the Verbal. If a candidate is admitted to the M.S. major and later decides to apply to the Ph.D. major, the GRE requirement must be met by the candidate as part of the application process. The GRE will be waived for M.S. degree applicants with an undergraduate degree from an ABET-accredited United States university.
- Three letters of recommendation
- Statement of purpose
- The applicant must also have mathematical preparation equivalent to that obtained from courses in Calculus through Differential Equations; knowledge of computer science and computer engineering, including logic design, computer architecture, data structure, operating systems and analysis of algorithms. The majority of students accepted to the major possess an undergraduate degree in Computer Science, Computer Engineering, Electrical Engineering, or Mathematics; however, students who hold an undergraduate degree in a related field are encouraged to apply.

Curriculum Requirements



Total Minimum Hours: 30 Credit Hours

- **Core Requirements - 6 Credit Hours**
- **Electives - 15 Credit Hours Minimum**
- **Non-thesis/Thesis - 9 Credit Hours Minimum**

Core Requirements: (6 Credit Hours)

Successful completion with a letter grade of "B" or better of two core graduate-level courses is required:

- EEL 6764 Principles of Computer Architecture **Credit Hours: 3**
- COT 6405 Introduction to the Theory of Algorithms **Credit Hours: 3**

Electives (15 Credit Hours Minimum)

With prior permission from the Graduate Director, students can take a maximum of three (3) hours of Independent Study or Internship, a maximum of three (3) hours of one-hour seminar courses, and up to one graduate level course (3 credit hours) outside the department.

Students must select at least 15 credit hours from available graduate elective courses in consultation with the Graduate Director or individual advisor.

Non-thesis students need to take a minimum of six (6) credits from the list of electives that are hardware related in the following topic areas: CMOS VLSI Design, Digital Circuit Synthesis, Formal Verification, Testing and Fault Tolerance, Low-Power VLSI, Robotics, or Computer Networks, as determined by the Graduate Director and documented in the Plan of Work.

Examples of Courses:

- CAP 5400 Digital Image Processing **Credit Hours: 3**
 - CDA 5416 Computer System Verification **Credit Hours: 3**
 - CAP 5625 Introduction to Artificial Intelligence **Credit Hours: 3**
 - CAP 5771 Data Mining **Credit Hours: 3**
 - EEL 5771 Introduction to Computer Graphics I **Credit Hours: 3**
 - CNT 6215 Computer Networks **Credit Hours: 3**
 - CAP 6415 Computer Vision **Credit Hours: 3**
 - CAP 6455 Advanced Robotic Systems **Credit Hours: 3**
 - CAP 6615 Neural Networks **Credit Hours: 3**
 - COP 6621 Programming Languages and Translation **Credit Hours: 3**
 - EEL 6706 Testing and Fault Tolerance in Digital Systems **Credit Hours: 3**
 - CAP 6736 Geometric Modeling **Credit Hours: 3**
 - CIS 6900 Independent Study **Credit Hours: 1-19**
 - CIS 6930 Special Topics **Credit Hours: 1-5**
 - CIS 6940 Graduate Instruction Methods **Credit Hours: 1-4**
 - CIS 6946 Internships/Practicums/Clinical Practice **Credit Hours: 0-3**
 - CIS 6971 Thesis: Master's **Credit Hours: 2-19**
- Or other graduate course approved by the Graduate Director

Thesis Option (9 Credit Hours Minimum)



The thesis option requires nine (9) credit hours of thesis in computer engineering related problems, as determined by the Major Professor and documented in the Plan of Work.

- CIS 6971 Thesis: Master's **Credit Hours: 2-19** (9 Credit Hours Minimum)

Non-Thesis Option (9 Credit Hours Minimum)

The non-thesis option requires an additional nine (9) credit hours of graduate level electives selected in consultation with the Graduate Director.

Comprehensive Exam

For students taking the thesis option, the requirement for a comprehensive exam is satisfied by the successful completion and defense of the thesis. Non-thesis option students must pass the comprehensive exam in the semester prior to the semester of graduation.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Computer Science and Engineering, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Engineering

Department: Computer Science and Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The degree of Doctor of Philosophy is conferred in recognition of a candidate's highest level of scholarly competence and demonstrated capability to independently conduct and report significant research in computer science and engineering. This achievement requires more than an accumulation of course credits over a stated period of residence. Scholarly competence is achieved through systematic study and investigation in the chosen discipline at an advanced level. The major professor and at least two committee members will be from the Computer Science and Engineering department. Research capability is developed during the course of study and is achieved through the completion of significant and independent research. The results of this research must be formally presented in a written dissertation and successfully defended before an examining committee. The dissertation must demonstrate the significance of the research as well as the candidate's ability to organize and present her/his results in a professional manner.

Major Research Areas:

An excellent selection of courses and laboratories support graduate studies in algorithms, artificial intelligence, machine learning, data mining, computer architecture, graphics, networks, computer vision, distributed systems, embedded systems, expert systems, formal verification, image processing, pattern recognition, robotics, databases, software engineering, computer security, compilers, programming languages, VLSI design, and CAD.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- The GRE is required for all Ph.D. applicants. The median GRE scores of recently admitted students include 770 on the Quantitative portion and a Verbal Total of 450. For GRE tests taken after August 1, we require a minimum of 161 on the Quantitative portion (81 percentile) and a minimum of 150 (44 percentile) on the Verbal.
- If consideration of an assistantship is desired, the speaking score component of the TOEFL must be 26 or above
- Three letters of recommendation
- Statement of purpose
- The applicant must also have mathematical preparation equivalent to that obtained from courses in Calculus through Differential Equations; knowledge of computer science and computer engineering, including logic design, computer architecture, data structures, operating systems, and analysis of algorithms. Students are assumed to have good programming skills. The majority of students accepted to the major possess an undergraduate degree in Computer Science, Computer Engineering, Electrical Engineering, or Mathematics; however, students who hold an undergraduate degree in a related field are encouraged to apply.

Curriculum Requirements

Total Program hours:

72 minimum (post-bachelor's)

42 minimum (post-master's)



A minimum of 72 semester hours including dissertation hours beyond the baccalaureate degree are required of all Ph.D. students

Post-Bachelor's: 72 hours minimum

- Core – 9 credit hours
- Coursework – 24 credit hours
- Independent Study/Dir Research – Up to 15 hours
- Dissertation – At least 20 credit hours

Post-Master's: 42 hours minimum

- Core – 9 credit hours
- Independent Study/Dir Research – Up to 15 hours
- Dissertation – At least 20 credit hours

Core Requirements (9 Credit Hours)

- COP 6611 Operating Systems **Credit Hours: 3**
- EEL 6764 Principles of Computer Architecture **Credit Hours: 3**
- COT 6405 Introduction to the Theory of Algorithms **Credit Hours: 3**

Coursework (33 Credit Hours)

At least 33 credit hours in coursework excluding independent study and directed research. The exact distribution of these hours in the Computer Science and Engineering discipline will be determined by the student and the supervisory committee to provide the student with a stimulating educational experience.

Departmental Course Options

(examples)

- CAP 5400 Digital Image Processing **Credit Hours: 3**
- CAP 5625 Introduction to Artificial Intelligence **Credit Hours: 3**
- CAP 5771 Data Mining **Credit Hours: 3**
- CAP 6415 Computer Vision **Credit Hours: 3**
- CAP 6455 Advanced Robotic Systems **Credit Hours: 3**
- CAP 6615 Neural Networks **Credit Hours: 3**
- CAP 6736 Geometric Modeling **Credit Hours: 3**
- CDA 5416 Computer System Verification **Credit Hours: 3**
- CNT 6215 Computer Networks **Credit Hours: 3**
- COP 6621 Programming Languages and Translation **Credit Hours: 3**
- EEL 5771 Introduction to Computer Graphics I **Credit Hours: 3**
- EEL 6706 Testing and Fault Tolerance in Digital Systems **Credit Hours: 3**
- CIS 6900 Independent Study **Credit Hours: 1-19**
- CIS 6930 Special Topics **Credit Hours: 1-5**
- CIS 6940 Graduate Instruction Methods **Credit Hours: 1-4**
- CIS 6946 Internships/Practicums/Clinical Practice **Credit Hours: 0-3**
- CIS 6971 Thesis: Master's **Credit Hours: 2-19**



Independent Study/Directed Research (1-15 Credit Hours)

Up to 15 credit hours of independent study/directed research.

- CIS 6900 Independent Study **Credit Hours: 1-19 (1-15 credits for this program)**
- CIS 7910 Directed Research **Credit Hours: 1-19 (1-15 credits for this program)**

Qualifying Examination

Students must pass the Ph.D. Qualifying examinations in Computer Architecture, Operating Systems, and Theory of Algorithms. The qualifying examination is a two-step process. First, students must get a GPA of 3.60 or better in these three courses within one year of enrollment, otherwise they will have to re-take only the necessary course(s) and get a GPA of 3.60 or better using the best three grades. If a student does not meet these requirements by the end of the second year, he or she will be withdrawn from the Ph.D. program. Second, students must take the qualifying exam and pass it. Students are required to take the exam as soon as they meet the requirements of the first step.

Major Research-Area Paper and Future Research Directions

To fulfil this milestone, students are required to write a survey or research paper on his/her area of research as the lead author. A journal or conference paper already published will count towards this requirement. The student is then required to give an oral presentation on the subject to his/her major professor and a doctoral evaluating committee. The oral presentation must also contain a section on future research directions, a draft plan of research activities towards graduation. The presentation will be open to the public. The paper and presentation is to be completed within one year of passing the Qualifying Examinations and will have to be formally approved by his/her major professor the doctoral evaluating committee before applying for Candidacy.

Admission to Candidacy

A student will not be admitted to candidacy until a Doctoral committee has been appointed, and the committee has certified that the student has successfully completed the qualifying examination and the Major Research Area Paper and Future Research Directions presentation, and demonstrated the qualifications necessary to successfully complete the requirements for the degree. The admission to Candidacy form must be approved by the Dean of the college and forwarded to the Dean of Graduate Studies for final approval. The student may elect to enroll in dissertation credits in the semester following approval of the Admission to Candidacy form by Graduate Studies.

The student's progress in the program is monitored by a supervisory doctoral committee, which is usually appointed at an early stage in the student's major. This committee consists of at least five members, one of whom is outside the College of Engineering. The Major Professor will be a member of the Computer Science and Engineering Department. Normally, two more Computer Science and Engineering faculty serve on the committee with a member in another department in the college.

The student must conduct research of sufficient quality that demonstrates an independent and original contribution to the field of computer science and engineering. Students must take at least 20 semester hours of doctoral dissertation credits; the exact number of credits is determined by the candidate's supervisory committee. It is strongly recommended that doctoral students submit journal articles for publication relevant to dissertation research.

Dissertation Hours (At Least 20 Credit Hours)

Students are required to take at least 20 hours of dissertation hours until they accumulate a minimum number of 72 hours in the major.

- CIS 7980 Dissertation: Doctoral **Credit Hours: 2-19**



Dissertation Defense

A doctoral candidate must defend her/his research before her/his committee. The defense is usually open to the university community and conducted in accordance with the university's general rules and regulations. The defense involves a formal presentation of the dissertation followed by a critical exchange between the candidate and the committee. The committee chairman moderates the proceedings and determines procedure, originality of the research, and contributions made by the candidate.



Computer Science, M.S.C.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Engineering

Department: Computer Science and Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The Department of Computer Science and Engineering offers a thesis and non-thesis option for the degree of Master of Science in Computer Science (M.S.C.S.) The thesis option requires students to pursue a more concentrated range of topics. The non-thesis option offers students some experience in many areas of computer science. There is considerable freedom in the choice of the courses.

The breadth of subjects which are part of computer science together with the immense diversity of its applications, make it imperative that students in the Master's major maintain close contact with the Graduate Director, or, if choosing the thesis option, with their major professor in order to achieve a coherent plan of study directed towards a specific goal. In particular, election of courses should only be made with prior consultation and approval of the Major Professor or the Graduate Director.

Major Research Areas:

An excellent selection of courses and laboratories support graduate studies in algorithms, artificial intelligence, machine learning, data mining, computer architecture, graphics, networks, computer vision, distributed systems, embedded systems, expert systems, formal verification, image processing, pattern recognition, robotics, databases, software engineering, computer security, compilers, programming languages, and VLSI design and CAD.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- The GRE is required for all Ph.D. and M.S. applicants. The median GRE scores of recently admitted students include 770 on the Quantitative portion and a Verbal Total of 450. For GRE tests taken after August 1, we require a minimum of 161 on the Quantitative portion (81st percentile) and a minimum of 150 (44th percentile) on the Verbal. If a candidate is admitted to the M.S. major and later decides to join the Ph.D. major, the GRE requirement must be met by the candidate as part of the application process. The GRE will be waived for M.S. degree applicants with an undergraduate degree from an ABET-accredited United States university.
- Three letters of recommendation.
- Statement of purpose.
- The applicant must also have mathematical preparation equivalent to that obtained from courses in Calculus through Differential Equations; knowledge of computer science and computer engineering, including logic design, computer architecture, data structure, operating systems and algorithms. The majority of students accepted to the Major possess an undergraduate degree in Computer Science, Computer Engineering, Electrical Engineering, or Mathematics. However, students who hold an undergraduate degree in a related field are encouraged to apply.

Curriculum Requirements



Total Minimum hours: 30 hours

- **Core Requirements - 9 Credit Hours**
- **Electives - 12 Credit Hours**
- **Non-thesis/Thesis - 9 Credit Hours Minimum**

Core Requirements (9 Credit Hours)

Successful completion with a letter grade "B" or better of the three core graduate-level courses is required.

- COP 6611 Operating Systems **Credit Hours: 3**
- EEL 6764 Principles of Computer Architecture **Credit Hours: 3**
- COT 6405 Introduction to the Theory of Algorithms **Credit Hours: 3**

Electives (12 Credit Hours Minimum)

With prior permission from the Graduate Director, students can take a maximum of 3 hours of Independent Study or Internship, a maximum of three (3) hours of one-hour seminar courses, and up to one graduate level course (3 credit hours) outside of the department.

Students must select at least 12 hours from the list of available graduate elective courses in consultation with the Graduate Director or individual advisor.

Non-thesis students need to take a minimum of 6 credits from the list of electives that are software related in the following topic areas: advanced algorithms, compilers, databases, parallel computing and distributed systems, computer security, data mining, machine learning, programming languages, or software engineering, as determined by the Graduate Director and documented in the Plan of Work.

Examples of Courses:

- CAP 5400 Digital Image Processing **Credit Hours: 3**
 - CDA 5416 Computer System Verification **Credit Hours: 3**
 - CAP 5625 Introduction to Artificial Intelligence **Credit Hours: 3**
 - CAP 5771 Data Mining **Credit Hours: 3**
 - EEL 5771 Introduction to Computer Graphics I **Credit Hours: 3**
 - CNT 6215 Computer Networks **Credit Hours: 3**
 - CAP 6415 Computer Vision **Credit Hours: 3**
 - CAP 6455 Advanced Robotic Systems **Credit Hours: 3**
 - CAP 6615 Neural Networks **Credit Hours: 3**
 - COP 6621 Programming Languages and Translation **Credit Hours: 3**
 - EEL 6706 Testing and Fault Tolerance in Digital Systems **Credit Hours: 3**
 - CAP 6736 Geometric Modeling **Credit Hours: 3**
 - CIS 6930 Special Topics **Credit Hours: 1-5**
 - CIS 6940 Graduate Instruction Methods **Credit Hours: 1-4**
 - CIS 6946 Internships/Practicums/Clinical Practice **Credit Hours: 0-3**
- Or other graduate course approved by the Graduate Director

Thesis Option (9 Credit Hours Minimum)



The thesis option requires nine (9) credit hours of thesis in computer science related problems, as determined by the Major Professor and documented in the Plan of Work.

- CIS 6971 Thesis: Master's **Credit Hours: 2-19** (9 Credit Hours Minimum)

Non-Thesis Option (9 Credit Hours Minimum)

The non-thesis option requires an additional nine (9) credit hours of graduate level electives selected in consultation with the Graduate Director.

Comprehensive Exam

For students taking the thesis option, the requirement for a comprehensive exam is satisfied by the successful completion and defense of the thesis. Non-thesis option students must pass the comprehensive exam in the semester prior to the semester of graduation.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Information Technology, M.S.I.T.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Engineering

Department: Computer Science and Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The Department of Computer Science and Engineering offers a non-thesis option for the degree of Master of Science in Information Technology (M.S.I.T). The MSIT graduate will demonstrate strong information technology skills as well as problem solving skills needed for the deployment of technology solutions to achieve business and organizational goals. The degree is available in an hybrid mode (online and face to face), and provides students with a broad and integrative understanding of both technology and operational and strategic business and organizational applications. There is considerable freedom in the choice of the courses.

The breadth of subjects which are part of information technology together with the immense diversity of its applications, make it imperative that students in the Master's major maintain close contact with the Graduate Director, in order to achieve a coherent plan of study directed towards a specific goal. In particular, election of courses should only be made with prior consultation and approval of the Major Professor or the Graduate Director.

Admissions Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- The GRE is required for all MSIT applicants. We require a minimum of (81 percentile) on the Quantitative portion and a minimum of (44 percentile) on the Verbal. The GRE will be waived for M.S. degree applicants with an undergraduate degree from an ABET-accredited United States university or for those applicants that show a minimum of 3 years of relevant and recent full-time professional experience in the U.S.
- Minimum grade point average (GPA) of "B" (or equivalent) for all coursework completed during the last two years of undergraduate major.
- If consideration of an assistantship is desired, the speaking score component of the TOEFL must be 26 or above.
- Three letters of recommendation.
- Statement of purpose.
- Bachelor's Degree in Information Technology, Computer Science, or a closely related field; or a bachelor's degree in another field, plus satisfactory completion of the courses listed below under "Undergraduate Prerequisites."
- Evidence of completion of a defined subset of the required core courses found in the University of South Florida's Bachelor of Science in Information Technology degree program or their equivalent (see "Undergraduate Prerequisites" below).

Undergraduate Prerequisites

To be successful in this major, an applicant should have certain base knowledge in the discipline demonstrated from undergraduate-level pre-requisite courses including:

- COP 2513 - Object-Oriented Programming for Information Technology



- COP 2512 - Programming Fundamentals for Information Technology
- COP 3515 - Programming Design for Information Technology
- CEN 4031 - Software Engineering Concepts for Information Technology
- COP 4703 - Database Systems for Information Technology
- EEL 4854/4935 - Selected Topics: IT Data Structures & Algorithms for Information Technology

The student should have taken these courses or their equivalent prior to beginning graduate coursework. All prerequisite courses are available online. Professional experience in information technology is typically focused on specific projects or systems, and is not as broad as the treatment of a topic one receives in a course. Therefore, except in unusual circumstances, professional experience cannot substitute for any of the above prerequisite courses.

Curriculum Requirements

Total Minimum Hours: 30 hours

- **Core - 9 Credit Hours**
- **Electives - 21 Credit Hours**

Core Requirements (9 Credit Hours)

- ISM 6218 Advanced Database Management **Credit Hours: 3**
- CIS 6220 Penetration Testing for IT **Credit Hours: 3**
- CEN 6084 Advances in Object Oriented Programming for IT **Credit Hours: 3**

Elective Courses (21 Credit Hours)

With prior permission from the Graduate Director, students can take a maximum of 3 hours of Independent Study or Internship and up to twelve credit hours outside of the major, as follows: three credit hours from the MSCS/MSCE majors; three credit hours outside of the department (e.g. EE, IE, Math); three credit hours on business practice, project management, leadership, entrepreneurship, or similar; three credit hours on big data, data analytics, data mining or similar.

Note: ISM prefix courses are offered by the Department of Information Systems / Decision Sciences (College of Business). They are considered outside the MSIT major.

Select six of the following courses, or other graduate courses as approved by the Graduate Director:

- CIS 6930 Special Topics **Credit Hours: 1-5 (3 credits for this program)** (Human Computer Interaction)
- CTS 6716 Network Programming for IT **Credit Hours: 3**
- CIS 6930 Special Topics **Credit(s): 1-5 (3 credits for this program)** (Networks II)
- CIS 6930 Special Topics **Credit(s): 1-5 (3 credits for this program)** (Introduction to Hadoop and Big Data)
- CIS 6930 Special Topics **Credit(s): 1-5 (3 credits for this program)** (Software Development for Mobile Devices)
- CIS 6082 Cloud Computing **Credit Hours: 3**
- CIS 6624 Practical Cybersecurity **Credit Hours: 3**
- ISM 6136 Data Mining **Credit Hours: 3**
- ISM 6137 Statistical Data Mining **Credit Hours: 3**
- ISM 6145 Seminar on Software Testing **Credit Hours: 3**
- ISM 6155 Enterprise Information Systems Management **Credit Hours: 3**
- ISM 6266 Software Architecture **Credit Hours: 3**
- CAP 6663 IT Robotics Application **Credit Hours: 3**
- CGS 6842 IT and Systems for E-Business **Credit Hours: 3**



- CIS 6900 Independent Study **Credit Hours: 1-19**
- CIS 6946 Internships/Practicums/Clinical Practice **Credit Hours: 0-3**

Comprehensive Exam

The requirement for a comprehensive exam is satisfied by the successful completion of the comprehensive exam, an exam that students will take in the semester prior to the semester in which they intend to graduate.

Thesis / Non-Thesis

This is a non-thesis major.

Graduation Requirements

Students must obtain a letter "B" or better in the core graduate courses, have a GPA of 3.00 or better, and pass the comprehensive exam.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Department of Industrial Systems Engineering

Major



Engineering Management, M.S.E.M.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Engineering

Department: Industrial & Management Systems Engineering

Contact Information: <http://www.grad.usf.edu/majors>

This major is designed to prepare engineers from various disciplines to make the transition to technical management. Courses in the major involve concepts in engineering management, resource management, strategic planning, and productivity. They combine qualitative approaches with quantitative techniques. Courses are available on campus or through distance learning.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- BS in Engineering or equivalent.
- GRE may be required
- Letter of recommendation.
- Resume
- Two years professional experience or internship may be required as part of the major

Curriculum Requirements

Total Minimum Hours: 30 Credit Hours

- **General Core Area - 12 Credit Hours**
- **Quantitative Core Area - 3 Credit Hours**
- **Job Design Core Area - 3 Credit Hours**
- **Electives - 6 Credit Hours Minimum**
- **Thesis Option - 6 Credit Hours**

Up to 6 hours of advanced courses in the student's area of specialty may be taken as electives. A thesis option is available to M.S.E.M. students who are interested in applied research. In the thesis option, 18 credits of core work, 6 credits of electives, and 6 credits of thesis are the minimum required.

Pre-Requisites:

An undergraduate statistics course with a grade of C or higher is a prerequisite for the quantitative core area. Otherwise students must additionally take EGN 3443 Probability & Statistics for Engineers as a prerequisite.



General Core Area: (12 Credit Hours)

- EIN 5182 Principles of Engineering Management **Credit Hours: 3**
- EIN 6386 Management of Technological Change **Credit Hours: 3**
- EIN 5350 Technology and Finance **Credit Hours: 3**
- EIN 6183 Engineering Management Policy and Strategy **Credit Hours: 3**

Note - the Capstone must be taken after all core work requirements have been fulfilled.

Quantitative Core Area (3 Credit Hours)

3 credits must be selected from the following options, as approved by advisor. The other courses may be taken as electives.

- ESI 5306 Operations Research for Engineering Management **Credit Hours: 3**
- ESI 5219 Statistical Methods for Engineering Managers **Credit Hours: 3**
- ESI 6247 Statistical Design Models **Credit Hours: 3**

Job Design Core Area (3 Credit Hours)

3 credits must be selected from the following options, as approved by advisor. The other course may be taken as an elective.

- EIN 6108 EM-Human Relations **Credit Hours: 3**
- EIN 6319 Work Design and Productivity Engineering **Credit Hours: 3**

Electives (12 Credit Hours Minimum)

12 credits minimum must be selected from the following options, as approved by advisor. (Other Graduate Courses may be taken, with approval of the Graduate Director.)

- EIN 6179 Advanced TQM Methods: Six Sigma **Credit Hours: 3**
- EIN 6936 Special Industrial Topics III **Credit Hours: 1-3** (Benchmarking)
- ESI 5522 Computer Simulation **Credit Hours: 3**
- EIN 6217 Construction Safety Engineering **Credit Hours: 3**
- EIN 5201 Creativity in Technology **Credit Hours: 3**
- EIN 5275 Work Physiology and Biomechanics **Credit Hours: 3**
- EIN 5452 Engineering a Lean Enterprise **Credit Hours: 3**
- EIN 6215 Engineering System Safety **Credit Hours: 3**
- ESI 6324 Engineering the Supply Chain **Credit Hours: 3**
- ESI 6605 Engineering Data Mining **Credit Hours: 3**
- EIN 6936 Special Industrial Topics III **Credit(s): 1-3** (Graduate Research Seminar)
- EIN 6433 Human Factors Engineering in Medical Devices **Credit Hours: 3**
- EIN 6112 Information Systems Design for Engineers **Credit Hours: 3**
- ESI 6448 Integer Programming **Credit Hours: 3**
- EIN 6434 Design Controls for Medical Devices **Credit Hours: 3**
- EIN 6435 International Regulations for Medical Devices **Credit Hours: 3**
- EIN 6178 ISO 9000/14000 **Credit Hours: 3**
- ESI 6491 Linear Programming and Network Optimization **Credit Hours: 3**



- EIN 5510 Manufacturing Systems Analysis **Credit Hours: 3**
- EIN 6392 New Product Development **Credit Hours: 3**
- ESI 6420 Non-Linear Programming **Credit Hours: 3**
- EIN 6216 Occupational Safety Engineering **Credit Hours: 3**
- EIN 6430 Overview of Regulated Industries **Credit Hours: 3**
- EIN 6336 Production Control Systems **Credit Hours: 3**
- EIN 6145 Project Management **Credit Hours: 3**
- EIN 6431 Regulated Quality Systems and Control **Credit Hours: 3**
- EIN 6432 Regulated Product Approval Process **Credit Hours: 3**
- ESI 5236 Reliability Engineering **Credit Hours: 3**
- EIN 6935 Special Industrial Topics II **Credit Hours: 1-3** (Strategic Marketing Assessment)
- EIN 6936 Special Industrial Topics III **Credit(s): 1-3** (Strategies in Technical Entrepreneurship)
- ESI 6213 Stochastic Decision Models I **Credit Hours: 3**
- EIN 6934 Special Industrial Topics I **Credit Hours: 1-3** (Tech Venture Strategy)
- EIN 6154 Technical Entrepreneurship **Credit Hours: 3**
- EIN 6106 Technology and Law **Credit Hours: 3**
- EIN 6121 Technology and Markets **Credit Hours: 3**
- EIN 5174 Total Quality Management Concepts **Credit Hours: 3**
- EIN 6177 Total Quality Management Seminar **Credit Hours: 3**
- ENT 6415 Fundamentals of Venture Capital and Private Equity **Credit Hours: 3**

Comprehensive Exam

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Industrial Engineering, M.S.I.E.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Engineering

Department: Industrial and Management Systems Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The department participates in the College's M.S.E. majors. The department offers advanced degrees in areas of study pertinent to the design, evaluation, and operation of a variety of industrial systems, ranging from the analysis of public systems, to the service industry, to the operation of manufacturing concerns. Course topics and research opportunities include engineering analytics, production planning, production control, facilities design, applied engineering statistics, quality control and reliability, operations research, engineering economic analysis, human factors engineering, productivity analysis, manufacturing systems, robotics, automation, and computer applications. The department has advanced laboratory facilities that support class projects and research in microcomputer applications, computer-aided design and manufacturing, flexible automation, quality control, and applications in robotics.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- An undergraduate degree in Industrial Engineering or a related field with a strong background in mathematics with a 3.00/4.00 GPA; non engineering degrees will be required to take supplemental undergraduate courses
- GRE Required
- Three letters of reference
- Statement of purpose including evidence of research potential

Curriculum Requirements

Total Minimum Hours: 30 credit hours minimum

- **Core Requirements - 9 Credit Hours**
- **Electives - 15 Credit Hours**
- **Thesis Option - 6 Credit Hours minimum**
- **Non-Thesis Option - 6 Credit Hours General Electives minimum**

Required Core Courses (9 Credit Hours)

- ESI 6410 Optimization in Operations Research **Credit Hours: 3**
- ESI 6247 Statistical Design Models **Credit Hours: 3**
- ESI 6340 Probabilistic Systems Analysis **Credit Hours: 3**

IE Elective Courses (15 Credit Hours)



- EIN 5350 Technology and Finance **Credit Hours: 3**
- ESI 5522 Computer Simulation **Credit Hours: 3**
- ESI 5236 Reliability Engineering **Credit Hours: 3**
- ESI 5306 Operations Research for Engineering Management **Credit Hours: 3**
- GEB 6527 Lean Six Sigma **Credit Hours: 3**
- EIN 6145 Project Management **Credit Hours: 3**
- ESI 6324 Engineering the Supply Chain **Credit Hours: 3**
- EIN 6336 Production Control Systems **Credit Hours: 3**
- ESI 6448 Integer Programming **Credit Hours: 3**
- ESI 6420 Non-Linear Programming **Credit Hours: 3**
- ESI 6447 Large-scale and Computational Optimization **Credit Hours: 3**
- EIN 6319 Work Design and Productivity Engineering **Credit Hours: 3**
- EIN 6112 Information Systems Design for Engineers **Credit Hours: 3**
- EIN 6934 Special Industrial Topics I **Credit Hours: 1-3 (3 credits for this program)** (Engineering Analytics I)
- EIN 6934 Special Industrial Topics I **Credit(s): 1-3 (3 credits for this program)** (Engineering Analytics II)
- ESI 6635 Advanced Analytics I **Credit Hours: 3**
- ESI 6636 Advanced Analytics II **Credit Hours: 3**

General Elective Courses

In addition, students can choose electives from other department and/or non-departmental courses, with the approval of major advisor or graduate director. Contact the department for information. Also visit <http://imse.eng.usf.edu>

Any College of Engineering 5000+ level course, including IMSE courses, except for the courses listed as IE elective courses above. Examples include:

- EIN 5182 Principles of Engineering Management **Credit Hours: 3**
- EIN 6386 Management of Technological Change **Credit Hours: 3**
- EIN 6934 Special Industrial Topics I **Credit Hours: 1-3 (3 credits for this program)** (Systems Integration)
- EIN 6936 Special Industrial Topics III **Credit Hours: 1-3 (3 credits for this program)** (Advanced Lean Six Sigma)
- EIN 6178 ISO 9000/14000 **Credit Hours: 3**
- EIN 6179 Advanced TQM Methods: Six Sigma **Credit Hours: 3**

Comprehensive Exam

Thesis (6 Credit Hours)

- EIN 6971 Thesis: Master's **Credit Hours: 2-19**



Industrial Engineering, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Engineering

Department: Industrial and Management Systems Engineering

Contact Information: <http://www.grad.usf.edu/majors>

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Although USF only requires Ph.D. students to complete two consecutive semesters as full-time students, the IMSE Dept. policy is for Ph.D. students to complete their total doctoral major as full-time Tampa campus students. Other requirements include:

- GRE Required
- Three letters of reference
- Statement of Purpose including evidence of research potential

Curriculum Requirements

Total Minimum Hours 90 hours post bachelor's

- Core Requirements - 12 Credit Hours
- Electives - 40 Credit Hours minimum
- Directed Research - 9 Credit Hours minimum
- Dissertation - 11 Credit Hours minimum

Minimum of 90 credit hours beyond BS degree. Minimum of 60 credit hours of approved course work and 20 credit hours of dissertation research. Total hours of credit must equal or exceed 90 hours. Contact the department for additional information.

Must have two (2) (at least one accepted, the other submitted) referred journal publications before graduation.

In addition, students may choose electives from other department and/or non-departmental courses, with the approval of major advisor or graduate director. Contact the department for information. Also visit <http://imse.eng.usf.edu>

Core Requirements (12 Credit Hours Minimum)

In addition a minimum of 8 hours of mathematics or statistics is required (the choice of such courses must be approved by the student's doctoral committee). Further requirements may be imposed by the candidate's committee.

Must take the following 4 core courses:

- ESI 6213 Stochastic Decision Models I **Credit Hours: 3**
- EIN 6520 Systems Modeling and Performance Analysis **Credit Hours: 3**



- ESI 6246 Advanced Statistical Design Models **Credit Hours: 3**
- ESI 6491 Linear Programming and Network Optimization **Credit Hours: 3**

Elective Courses (40 Credit Hours Minimum)

- ESI 5522 Computer Simulation **Credit Hours: 3**
- EIN 6119 - Decision Support Systems **Credit(s): 3**
- ESI 6324 Engineering the Supply Chain **Credit Hours: 3**
- EIN 6433 Human Factors Engineering in Medical Devices **Credit Hours: 3**
- EIN 6112 Information Systems Design for Engineers **Credit Hours: 3**
- ESI 6448 Integer Programming **Credit Hours: 3**
- EIN 6435 International Regulations for Medical Devices **Credit Hours: 3**
- EIN 6386 Management of Technological Change **Credit Hours: 3**
- ESI 6420 Non-Linear Programming **Credit Hours: 3**
- EIN 6336 Production Control Systems **Credit Hours: 3**
- EIN 6145 Project Management **Credit Hours: 3**
- ESI 5236 Reliability Engineering **Credit Hours: 3**
- EIN 6319 Work Design and Productivity Engineering **Credit Hours: 3**
- ESI 6635 Advanced Analytics I **Credit Hours: 3**
- ESI 6636 Advanced Analytics II **Credit Hours: 3**

Directed Research (9 Credit Hours)

Qualifying Examination

Dissertation (11 Credit Hours)



Department of Mechanical Engineering

Major



Mechanical Engineering, M.S.M.E.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: Engineering

Department: Mechanical Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The Department offers graduate majors leading to the M.S.M.E. and Ph.D. in Mechanical Engineering. Research opportunities are available in the following areas: Mechanism Design, Kinematics, System Dynamics and Vibrations, Mechanical Controls, Tribology, Mechanical Design, Robotics, Rehabilitation Engineering, Composite Materials, Solid Mechanics, Fluid Dynamics, Thermal Energy Systems, Microelectronic Device Thermal Management, Clean and Renewable Energy Systems, Micro and Nano scale materials and systems, MEMS, Biosensors, Biofluids, Biomedical Engineering, and Engineering Education Cellular Mechanotransduction and Biomaterials, Autonomy, Control, Information, and Systems.

Department facilities include the following laboratories: Computational Fluid Dynamics, Computational Solid Mechanics, Computer-Aided Design, Dynamic Systems, Hydraulics, Rehabilitation Engineering, Robotics, Biofuel cells and Biomimetics, Nanomaterials and Thin Films, Advanced Materials Processing and Characterization, Biofluids and Biosensors, Microelectronic Thermal Management and Heat Transfer, and Compliant Mechanisms.

Accreditation:

The department is ABET accredited.

Major Research areas:

Robotics, Rehabilitation Engineering, Controls, Solid Mechanics, Fluid Dynamics, Micro and Nano scale materials and systems Biomedical Engineering, and Engineering Education.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- B.S. in Mechanical Engineering or a closely related field from an accredited engineering program required.
- GRE required, with minimum percentile rank of 50% on the quantitative portion and a minimum average percentile rank of 50% in verbal and quantitative.
- A minimum grade point average (GPA) of 3.00/4.00 for the last two years of coursework from an ABET accredited engineering major for admission. Graduates of non-ABET accredited majors are evaluated on a case-by-case basis.
- Minimum of two recommendation letters is required.
- A one-page Statement of Purpose/Research Interest must also be included in the application package.
- The following prerequisite courses must be successfully completed before admission to the Ph.D. Program: Calculus I, II, III, Differential Equations, Thermodynamics, Fluid Mechanics, Solid Mechanics, and Machine Design.

Curriculum Requirements



Total Minimum Hours: 30 credit hours

- Core - 6 credit hours
- Other required courses - 6 hours
- Electives - 12 credit hours
- Thesis/non-thesis - 6 credit hours

Core Requirements (6 Credit Hours)

- EML 6105 Advanced Thermodynamics and Statistical Mechanics **Credit Hours: 3**
- EML 6653 Applied Elasticity **Credit Hours: 3**

Other required courses (6 Credit Hours)

All Master's Major students must complete a total of 9 core credit hours from two categories. Students should choose 3 credit hours of course work from each of the following specialization areas:

- EML 6069 Advanced Mathematics for Mechanical Engineers **Credit Hours: 3**
- EML 6060 Advanced Engineering Math II **Credit Hours: 3**

Must successfully complete one of the following four courses:

- EML 6273 Advanced Dynamics of Machinery **Credit Hours: 3**
- EML 6223 Synthesis of Vibrating Systems **Credit Hours: 3**
- EML 6801 Robotic Systems **Credit Hours: 3**
- EML 6311 Advanced Controls **Credit Hours: 3**

Electives (12 Credit Hours)

Minimum of 12 hours of elective coursework at the 6000 level. Out of these 12 hours, minimum of six credit hours of additional coursework is to be chosen from any EML class offered by the department. Independent Study is not considered regular class and is not included in this group.

Comprehensive Exam

For the thesis option, the successful defense of the thesis satisfies the comprehensive exam requirement.

For the non-thesis option, in lieu of the comprehensive exam, a portfolio containing project reports submitted as part of the coursework requirement for two out of three specialization areas (Fluid and Thermal Science; Mechanics, Manufacturing, and Materials; Dynamical Systems and Controls) will be submitted to the Department upon application of graduation. The Graduate Coordinator and Graduate Committee members of the Department will evaluate and approve the portfolio. The portfolio must be successfully completed and approved to satisfy the comprehensive exam requirement for graduation.

Non-thesis / Thesis Option (6 Credit Hours)

Non-thesis – 6 credit hours

Students in the non-thesis option complete an additional six hours of electives, selected in consultation with the Graduate Director.



Thesis Option- 6 credit hours

- EML 6971 Thesis: Master's **Credit Hours: 2-6**
Thesis option M.S.M.E. degree requires a minimum of 6 thesis hours. Thesis option MSME students must present a typed final draft to the Supervisory Committee and Graduate Advisor one week before the final oral examination.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Mechanical Engineering, Ph. D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Engineering

Department: Mechanical Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The Department offers graduate majors leading to the M.S. and Ph.D. in Mechanical Engineering.

Research opportunities are available in the following areas: Mechanism Design, Kinematics, System Dynamics and Vibrations, Mechanical Controls, Tribology, Mechanical Design, Robotics, Rehabilitation Engineering, Composite Materials, Solid Mechanics, Fluid Dynamics, Thermal Energy Systems, Microelectronic Device Thermal Management, Clean and Renewable Energy Systems, Micro and Nano scale materials and systems, MEMS, Biosensors, Biofluids, Biomedical Engineering, Engineering Education, Mechanotransduction and Biomaterials, Autonomy, Control, Information, and Systems.

Department facilities include the following laboratories: Computational Fluid Dynamics, Computational Solid Mechanics, Computer-Aided Design, Dynamic Systems, Hydraulics, Rehabilitation Engineering, Robotics, Biofuel cells and Biomimetics, Nanomaterials and Thin Films, Advanced Materials Processing and Characterization, Biofluids and Biosensors, Microelectronic Thermal Management and Heat Transfer, and Compliant Mechanisms.

Accreditation

The department is ABET accredited.

Major Research Areas

Robotics, Rehabilitation Engineering, Controls, Solid Mechanics, Fluid Dynamics, Micro, and Nanoscale materials and systems
Biomedical Engineering, and Engineering Education.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- M.S. in Mechanical Engineering or a closely related field preferred.
- Students without a M.S. or with an M.S. in another field may also be admitted on a case-by-case basis.
- GRE required, with minimum percentile rank of 60% on the quantitative portion and a minimum average percentile rank of 60% in verbal and quantitative.
- A minimum grade point average (GPA) of 3.00/4.00 for the last two years of coursework from an ABET accredited engineering major for admission. Graduates of non-ABET accredited majors are evaluated on a case-by-case basis.
- A minimum of three recommendation letters is required.
- A one-page Statement of Purpose/Research Interest must also be included in the application package.
- The following prerequisite courses must be successfully completed before admission to the Ph.D. Program: Calculus I, II, III, Differential Equations, Thermodynamics, Fluid Mechanics, Solid Mechanics, and Machine Design.

Curriculum Requirements



Total Minimum Hours:

72 credit hours (post-bacc)

48 credit hours (post-masters)

- **Core – 6 credit hours**
- **Other required courses – 9 credit hours**
- **Electives – 21 credit hours**
- **Dissertation – 20 credit hours**
- **Additional coursework or dissertation – 16 credit hours**

Courses completed for a Master's degree from another institution may count towards a maximum of 24 credit hours of coursework for the Ph.D. degree only if the transcript shows that the degree requirements were similar to USF and the student did not already get credit for the identical courses at USF.

Core Requirements (6 Credit Hours)

- EML 6105 Advanced Thermodynamics and Statistical Mechanics **Credit Hours: 3**
- EML 6653 Applied Elasticity **Credit Hours: 3**

Other Required Courses (9 Credit Hours)

- EML 6069 Advanced Mathematics for Mechanical Engineers **Credit Hours: 3**
- EML 6060 Advanced Engineering Math II **Credit Hours: 3**

Must successfully complete one of the following four courses:

- EML 6273 Advanced Dynamics of Machinery **Credit Hours: 3**
- EML 6223 Synthesis of Vibrating Systems **Credit Hours: 3**
- EML 6801 Robotic Systems **Credit Hours: 3**
- EML 6311 Advanced Controls **Credit Hours: 3**

Electives (21 Credit Hours Minimum)

Minimum of 21 hours of elective coursework at the 6000 level without counting Independent Study or Directed Research or Dissertation Hours.

Qualifying Examination

Students must apply to take the qualifying examination no later than the fourth semester after admission into the doctoral program. In order to take the qualifying examination a doctoral student must satisfy the following requirements:

Satisfactorily complete (C or better) in departmental coursework on Mathematics and two other areas of specialization (1 major and 1 minor) as described below.

- Mathematics:
 - EML 6069 Advanced Mathematics for Mechanical Engineers
 - EML 6060 - Advanced Engineering Math II
- Heat Transfer:
 - EML 6154 Advanced Conduction Analysis
 - EML 6930 Special Problems I (Convection Heat Transfer)
- Fluid Mechanics:



- EML 6713 Advanced Fluid Mechanics
- Thermodynamics:
 - EML 6105 Advanced Thermodynamics and Statistical Mechanics
- Dynamics:
 - a. EML 6273 Advanced Dynamics of Machinery
 - b. EML 6223 Synthesis of Vibrating Systems
- Solid Mechanics:
 - a. EML 6653 Applied Elasticity
- Materials:
 - a. EML 6930 Special Problems I (Advanced Materials)
- Controls:
 - a. EML 6311 - Advanced Controls

No student will be allowed to take the examination if the cumulative GPA of all courses taken at USF is below 3.00, have not chosen a major professor and formed a supervisory committee, or is holding conditional or provisional admission status in the major.

Examinations will be given on Mathematics, and student's chosen major and minor areas of specialization. A student is required to pass the written examination in all three (3) areas (Mathematics, major area of specialization, minor area of specialization) for advancement to candidacy. Students will be given a maximum of two attempts to pass the qualifying examination. Failure in the second year will result in being dropped from the doctoral program.

Dissertation (20 Credit Hours Minimum)

- EML 7980 Dissertation: Doctoral **Credit Hours: 2-12**
20 credit hours minimum

Additional Coursework or Dissertation (16 Credit Hours)

Students will select additional coursework or Dissertation hours to complete the remaining 16 credit hours.

Graduate Handbook

<https://www.usf.edu/engineering/me/graduate/index.aspx>



Department of Medical Engineering

Major



Biomedical Engineering, M.S.B.E.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Pharmacy

Also offered as a Bachelor's/Master's Pathway

Also offered as a Concurrent Degree

Contact Information

College: Engineering

Department: Medical Engineering

Contact Information: <http://www.grad.usf.edu/majors>

Biomedical Engineering is a highly interdisciplinary Major that combines engineering and the medical sciences. The student works with an advisor to develop a graduate Major that draws on courses from engineering, medicine, public health, and the life sciences. Current active areas of research include: biomechanics, biomaterials, medical imaging, neuroengineering, tissue engineering, sensors, cellular-level drug delivery, and rehabilitation engineering. In addition to USF Health, participating institutions include the James Haley Veterans Administration Hospital, Florida Orthopedics Institute, and Tampa General Hospital. For more information, please contact the BME Major Advisor.

Major Research Areas: Biomechanics, Biomaterials, Neuroengineering, Photo Sensors, Cellular-level drug discovery and Tissue Engineering

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE with preferred Minimum scores of Quantitative greater than 75% and Analytical Writing 4 or better;
- An undergraduate Bachelor's degree in Engineering or Science;
- Two (2) letters of recommendation; and
- A statement of purpose
- CV

Note: Exceptionally qualified students with bachelor's degrees in other disciplines may be admitted into the BME M.S. Major on a case-by-case evaluation of their credentials.

Curriculum Requirements

Total Minimum Hours: 30 credit hours

- **Core - 6 Credit Hours**
- **Additional Required Courses - 9 Credit Hours**
- **Electives or Concentration - 15 Credit Hours**
- **Optional Thesis - 6 Credit Hours** (*may apply towards electives*)



Core Requirements (6 Credit Hours)

- GMS 6605 Basic Medical Anatomy **Credit Hours: 3**
- PHC 6051 Biostatistics II **Credit Hours: 3**

Additional Required Courses (6 Credit Hours)

- BME 6000 Biomedical Engineering **Credit Hours: 3**
- GMS 6440 Basic Medical Physiology **Credit Hours: 3**
or
- BME 6410 Engineering Physiology **Credit Hours: 3**
- BME 6931 Selected Topics in Biomedical Engineering **Credit Hours: 1-3 (3 credits for this program)**

General Track Electives (15 Credit Hours)

Students may either opt for the General Track of the Concentration in Pharmacy, completing 15 hours as noted:

Students select from additional approved courses to complete the 30 hour requirement. A minimum of 16 hours must be at the 6000 level. In addition, all of the elective courses must consist of engineering-prefix courses, although the Thesis Committee (thesis option) or the BME Major Advisor (non-thesis option) may approve courses in relevant areas such as chemistry, physics, pharmacy, communications sciences & disorders, public health or medicine, in their place.

Concentration in Pharmacy (15 Credit Hours)

Students may select from the following options, or other pharmacy courses, as approved by their Pharmacy and BME Advisors:

- PHC 6146 Health Services Planning and Evaluation **Credit Hours: 3**
- PHA 6119 Micro-/Nanoscale Drug Delivery Systems **Credit Hours: 3**
- PHA 6118 Nanomaterials, BioMEMS, and Nanodevices in Medicine **Credit Hours: 3** (Online)
- PHA 6147 Nanotechnology and Risk Management **Credit Hours: 3** (Online)
- PHA 6148 Nanoformulations and Nanopharmaceuticals **Credit Hours: 3** (Online)
- PHA 6xxx - Additional course in pharmacy **Credit(s): 3** (Online)

Thesis Option (6 Credit Hours)

Research for the Master's Thesis in Biomedical Engineering. Students may count up to six hours total maximum toward the M.S. degree. students must have an approved Master's committee for registration.

Thesis option students can count up to six hours of thesis research towards the 15 credits of elective requirements.

- BME 6971 Research for Master's Thesis **Credit Hours: 2-6** (6 Credits required for this program)

Comprehensive Exam

Students in the non-thesis track will complete a comprehensive exam. For students in the thesis track, the thesis and oral defense serve as the comprehensive exam.



Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway

Concurrent Degree

Also available as a Concurrent Degree



Biomedical Engineering, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Concurrent Degree

Contact Information

College: Engineering

Department: Medical Engineering

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. in Biomedical Engineering at the University of South Florida prepares individuals to contribute in this highly interdisciplinary field both as individuals and as members of interdisciplinary teams. Graduates are prepared to solve complex problems in areas such as diagnostic instrumentation, artificial organs, prosthetic devices, rehabilitation, and health care system design and operations, biomechanics, biomaterials, imaging, neuroengineering, tissue engineering, sensors, cellular-level drug delivery. The doctoral major capitalizes on USF's strong programs in Engineering and in the Health Sciences as well as the contiguously located H. Lee. Moffitt Cancer Center and Research Institute, and the James Haley Veterans Administration Hospital.

Students in the Major may choose to concentrate in one of several nationally recognized areas of Biomedical Engineering strength at USF including:

- Medical Imaging
- Rehabilitation Engineering
- Biomechanics and Biomaterials
- Molecular, Cellular and Tissue Engineering
- Drug and Gene Delivery
- Neuroengineering

The Biomedical Engineering Program at USF provides students with an integrated knowledge of engineering, biomedical science and other appropriate disciplines to allow participation in and advancement of the interdisciplinary field of Biomedical Engineering. The major also facilitates biomedical engineering research at USF through interactions with USF faculty and with industry and other health care institutions and catalyzes the growth of biomedical product companies throughout the region by the development, dissemination, and commercialization of new biomedical technologies. Overall, the major strives to develop and promote technologies and processes that will lead to better health care and improved quality of life.

Major Research Areas: Neuroengineering, biomechanics, biomaterials, medical imaging, sensors, cellular-level drug delivery, and rehabilitation engineering and tissue engineering

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Successful applicants to the Ph.D. degree program in biomedical engineering will typically have presented the following preferred qualifications:

- GRE required with preferred scores: Verbal greater than 50% percentile and Quantitative greater than 75th percentile and Analytical Writing greater than 4.0.
- An undergraduate GPA of greater than 3.50 (out of a possible 4.00) based on official transcripts.



- Completion of a Master's degree in biomedical engineering or a related field.
- Evidence of sustained interest in biomedical engineering.
- A statement of purpose and CV.
- Three (3) Letters of recommendation.

Note: Admissions decisions will be made using multiple measures indicated above. We strongly encourage applicants to contact specific faculty conducting research related to the student's interests. Such direct contact with individual faculty members can greatly strengthen an application.

Curriculum Requirements

Total Minimum Hours: 90 hours

For students with an *approved* master's degree 60 hours minimum post-master's

For students without a master's degree 90 hours minimum post-bachelor's

- **Core Courses – 6 Credit Hours**
- **Additional Required Courses - 9 Credit Hours**
- **Specialization Courses – 15 Credit Hours**
- **Additional Electives or Directed Research for students without a master's degree – 30 Credit hours**
- **Dissertation – 30 Credit hours**

Core Requirements (6 Credit Hours)

- GMS 6605 Basic Medical Anatomy **Credit Hours: 3**
- PHC 6051 Biostatistics II **Credit Hours: 3**

Additional Required Courses (9 Credit Hours)

- BME 6000 Biomedical Engineering **Credit Hours: 3**
- GMS 6440 Basic Medical Physiology **Credit Hours: 3**
or
- BME 6410 Engineering Physiology **Credit Hours: 3**
- BME 6931 Selected Topics in Biomedical Engineering **Credit Hours: 1-3 (3 credits in this program)** (Biomedical Engineering II or other advisor-approved elective)

Specialization Courses (15 Credit Hours)

A minimum of 15 graduate credit hours selected from one of these areas of specialization. Directed Research courses in these areas can count as a part of these credits:

- *Medical Imaging*
- *Rehabilitation Engineering*
- *Biomechanics and Biomaterials*
- *Cardiovascular Engineering*
- *Neuroengineering*



- *Tissue Engineering*

Additional Electives or Directed Research for Students Without A Master's Degree (30 Credit Hours)

Students without a master's degree will complete the required coursework for the master's degree.

Students with an approved master's degree will complete additional electives or directed research hours.

Qualifying Exam

Ph.D. Qualifying Examination, preferably to be completed by the end of the second year of study. The dissertation committee will evaluate a written dissertation proposal and an oral defense. Poor performance on the qualifying exam based on the judgment of the Committee may result in the student failing the exam. If a student does not pass on the first attempt, he/she may request in writing to repeat the Exam. Students who fail the Qualifying Examination the second time will be dismissed by the Major.

Dissertation (30 Credit Hours)

Thirty (30) credits of dissertation research are required. Six (6) hours of Directed Research may be substituted for six (6) Dissertation hours. As with other engineering Ph.D. degrees, evidence of the significance of the conducted research is provided by publication in appropriate refereed journals; with a minimum of 1 publication in a peer-reviewed journal, with the student as primary author. The expectation is that Ph.D. students will have three (3) or more publications. The required journal publication must be based on your Dissertation research. Presentation at a conference or publication in a proceeding (even if refereed) is not sufficient.

- BME 7980 Ph.D. Dissertation **Credit Hours: 2-19**

Other Information

Graduate Assistantships and Fellowships

Financially competitive teaching and research graduate assistantships and fellowships will be offered to incoming students. Of special importance are the research opportunities and support available through affiliated institutions including the H. Lee Moffitt Cancer Center and Research Institute, the James Haley VA Hospital. In addition, particularly outstanding applicants will be nominated for university fellowships including Presidential Fellowships which provide competitive stipends plus tuition, fees and Health Insurance renewable for five years.

Results

Doctoral graduates of this major have been prepared for and are successfully engaged in research careers in Government, Corporate, and University Laboratories. In addition, since much of Biomedical Engineering research translates directly into biomedical devices, drugs, and instrumentation, graduates have also been directly involved in technology transfer, including the establishment of new Biomedical Engineering related businesses.

Concurrent Degree

Also available as a Concurrent Degree



College of Graduate Studies

College of Graduate Studies

GS - Programs

University of South Florida
Office of Graduate Studies (College of Graduate Studies)
4202 E. Fowler Ave ALN226
Tampa, FL 33620

Web address: <http://www.grad.usf.edu/>

Phone: 813-974-2846

Fax: 813-974-5762

College Dean: Dwayne Smith, Ph.D.

Associate Dean: Ruth Bahr, Ph.D.

Mission Statement:

The University of South Florida Office of Graduate Studies serves as the University hub of leadership for graduate education producing global leaders, one scholar at a time.

College Information:

The College of Graduate Studies is housed in the Office of Graduate Studies and serves as the College for newly developed interdisciplinary programs. In the past programs have included the Applied Behavior Analysis (MA), Cancer Biology (Ph.D.), Entrepreneurship in Applied Technologies (MS), and Global Sustainability (MA), which are now housed in other colleges.



Dean's Office

Major



Cybersecurity, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations

Digital Forensics
Computer Security Fundamentals
Cyber Intelligence*
Information Assurance

**Cyber Intelligence requires 33 minimum total hours*

Contact Information

College: Graduate Studies
Department: Cyber Florida
Contact Information: <http://www.grad.usf.edu/majors>

The Master of Science in Cybersecurity is an interdisciplinary major that utilizes talent across the Colleges of Business, Engineering, Arts & Sciences, and Behavioral and Community Sciences. The major prepares students for leadership, managerial and domain-specific roles in Cybersecurity and for employment in managerial and operational positions that require quick analytical thinking, decision-making under uncertainty regarding critical resources, and domain-specific technical skills for managing secure operations. Specifically, based on the design of the concentrations and the core of this major, the major is also expected to prepare students for

1. intelligence positions that require innovative, analytical, decision-making, and technical skills for providing cybersecurity intelligence,
2. information assurance positions that require secure management of information and data transferred, used, stored, and processed in information systems,
3. law enforcement positions that are required to deal more and more with cyber-crimes, and
4. cybersecurity positions that require deep technical skills in the security domain.

Because this is a graduate-level major, to ensure that students possess the foundational knowledge for academic success, students admitted to this major are most likely to be successful if they have academic or work experience in the areas of C/C++ programming, computer networks, operating-system design, algorithms, data structures, and computer organization. An undergraduate degree in computer science, computer engineering, MIS, or IT is recommended for admission. Note: For the Information Assurance Concentration it is recommended that students have a background in accounting information systems, database management, and systems analysis and design.

Major Research Areas:

Cyber, Cybersecurity, Cyber Security, Information Assurance, Secure Software, Information, Analytics, Intelligence, Computer, Network, IT, Software, Testing, Security, Analytic Communication, Data Communications, Cryptography, Information Security, Risk Management, Business Continuity, Disaster Recovery, Digital Forensics, National Security

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

Applicants also must submit the following with their application:



- A 250-500 word essay in which the student describes her or his academic and professional background, reasons for pursuing this degree, and professional goals pertaining to cybersecurity
- Two letters of recommendation, at least one of which should come from a faculty member familiar with the applicant's academic performance and potential. If the applicant is unable to provide the letter from a former professor, with approval from the program's admission coordinator, letters from other professional sources will be accepted
- Current Resume or CV
- Scores from the GRE General Test. Applicants with degrees from accredited U.S. universities, however, may request a waiver of the GRE requirement.

The graduate admissions committee may request a video or phone admission interview or additional documentation, if necessary.

Curriculum Requirements

Total Minimum Hours: 30 credit hours

- **Core Requirements – 9 credit hours**
- **Additional Required Course – 3 credit hours**
- **Concentrations – 15 credit hours**
- **Practicum – 3 credit hours**

Core Requirements (9 Credit Hours)

- EEL 6787 Data Network, Systems, and Security **Credit Hours: 3**
- ISM 6577 Decision Processes for Business Continuity and Disaster Recovery **Credit Hours: 3**
- ISM 6328 Information Security & Risk Management **Credit Hours: 3**

Additional Required Courses (3 Credit Hours)

- MAT 5932 Selected Topics **Credit Hours: 1-4**

Concentration Requirements (15 Credit Hours Minimum)

Students must select from the following concentrations:

Digital Forensics (15 Credit Hours)

Area of emphasis on forensics following attacks on critical infrastructure systems.

- CJE 6688 Cybercrime and Criminal Justice **Credit Hours: 3**
- CJE 6627 Digital Evidence Recognition and Collection **Credit Hours: 3**
- CJE 6624 Introduction to Digital Evidence **Credit Hours: 3**
- CJE 6625 Network Forensic Criminal Investigations **Credit Hours: 3**
- CJE 6626 Digital Forensic Criminal Investigations **Credit Hours: 3**

Computer Security Fundamentals (15 Credit Hours)

Area of emphasis in operating secure critical infrastructure systems.



Students select from the following options to complete the 12 hour requirement:

- EEL 6764 Principles of Computer Architecture **Credit Hours: 3**
- COP 6611 Operating Systems **Credit Hours: 3**
- COT 6405 Introduction to the Theory of Algorithms **Credit Hours: 3**
- CIS 6930 Special Topics **Credit Hours: 1-5 (3 credits for this program)** (Computer Systems Security) (New Course Number Pending)

For the remaining 3 hours students may select a course from the other concentrations.

Cyber Intelligence (18 Credit Hours)

Area of emphasis in methodologies for analyzing threats against critical systems

- LIS 6107 Advanced Professional & Technical Communication for Analysts **Credit Hours: 3**
- LIS 6700 Information Strategy and Decision-Making **Credit Hours: 3**
- LIS 6703 Core Concepts in Intelligence **Credit Hours: 3**
- LIS 6702 Advanced Intelligence Analytic Methods **Credit Hours: 3**
- LIS 6709 Cyber Intelligence **Credit Hours: 3**
- LIS 6670 Advanced Cyber Intelligence **Credit Hours: 3**

Information Assurance (15 Credit Hours)

Area of emphasis in securing critical information and systems. The concentration requires students to take five out of the following six courses:

- ISM 6124 Advanced Systems Analysis and Design **Credit Hours: 3**
- ISM 6145 Seminar on Software Testing **Credit Hours: 3**
- ISM 6218 Advanced Database Management **Credit Hours: 3**
- ISM 6316 Project Management **Credit Hours: 3**
- BUL 5842 Risk Management and Legal Compliance **Credit Hours: 3**
- ACG 6457 Accounting Systems Audit, Control, and Security **Credit Hours: 3**

Or any other elective pre-approved by the Muma College of Business Information Assurance Concentration Director.
The information below applies to all concentrations in the major:

Comprehensive Exam

During the semester in which the student is scheduled to graduate, the student will be required to submit an electronic portfolio demonstrating completion of core major competencies in cybersecurity and in the area of concentration. This competency-based portfolio will substitute for the written comprehensive exam because the portfolio permits the capstone assessment to align exactly with the degree program's objectives. Each objective in the portfolio is reviewed and rated by graduate faculty for Content (demonstrating knowledge of accepted practices, procedures, and trends in the field) and Critical Thinking (ability the student's ability to analyze a problem, organize a response, synthesize perspectives, and draw practical, testable conclusions)

Non-Thesis

Because the primary aim of the M.S. in Cybersecurity is to train highly skilled practitioners for the workforce, the Degree does not include a research thesis requirement.



Practicum (3 Credit Hours)

Satisfactory completion of a three (3) credit hour applied learning experience (practicum) is a core degree requirement for all students pursuing the M.S. in Cybersecurity. The practicum experience is arranged and managed through the coordinator for the student's concentration area. The student will register for practicum credit in her concentration area's home department.

Until each department receives final approval for a "practicum" or "field work" course number, some departments will develop a learning plan with the student for the practicum and use the "Independent Study" course mechanism.

- For Information Assurance: ISM 6940 Practicum for Information Assurance
- For Computer Security Fundamentals: CAP 6940 IT Graduate Practicum
- For Digital Forensics: CJE 6945 Practicum for Digital Forensics
- For Cyber Intelligence: LIS 6946 Supervised Field Work



College of Marine Science

College of Marine Science

MS - Programs

University of South Florida
College of Marine Science
140 7th Avenue S, MSL119
St. Petersburg, FL 33701

Web address: <http://www.marine.usf.edu/>

Email: marinescience@usf.edu

Phone: 727-553-1130

Fax: 727-553-1189

College Dean: Thomas K. Frazer, Ph.D.

Associate Dean: Gary Mitchum, Ph.D.

Associate Dean of Academic Affairs: David F. Naar, Ph.D.

College Structure and Location:

The College of Marine Science (CMS) was formed during 2000 from the previous Department of Marine Science, initiated in 1967 with three founding faculty members. The Florida Board of Regents declared it a University Center of Excellence in 1978 and approved the Marine Science Ph.D. degree program in 1982. The CMS at the University of South Florida is constituted as a graduate-level research major that forms the basis for educational opportunities at the Ph.D. and M.S. degree levels and for public service to the State of Florida.

Located on the beautiful waterfront of Tampa Bay adjacent to the USF St. Petersburg campus, CMS is administratively part of the USF Tampa campus and reports to the Provost of USF. The College is focused on interdisciplinary research in marine science. Our ranked faculty, support personnel, and graduate students work together toward a vision of understanding the unified global ocean system. The College seeks to build new interdisciplinary research teams in collaboration with our local marine science research partners, including the Florida Fish and Wildlife Research Institute, the U.S. Geological Survey, NOAA, SRI St. Petersburg, and Mote Marine Lab.

Mission Statement:

The primary mission of the College is to conduct basic and applied research in ocean science. Here, ocean science is defined by application of the traditional fields of science to the biology, chemistry, geology, and physics of the marine environment and the interactions between the marine environment and the adjoining atmosphere and land systems – presently and throughout earth's history. Included in the primary ocean science mission is the development of new technologies and tools for exploring the coupled ocean-atmosphere-land systems. The College expects its faculty to develop research majors of outstanding caliber and to fully engage the national and international scientific communities, through the reporting of research results in the most respected oral and written venues, and by professional service. Integral to the ocean science research mission is the education of graduate students.

The College recruits, trains, and graduates productive, creative scientists at the Ph.D. and M.S. levels that are prepared to make independent contributions to ocean science. The faculty are expected to develop outstanding graduate education programs that will afford students the opportunity to participate in all aspects of research. The College recognizes that graduate education requires strong mentoring along with traditional classroom instruction. An ancillary but important mission of the College is education outreach for students at all levels and for the public at large. Our outreach programs have significantly expanded our educational responsibilities, and



they are intended to motivate all generations to become scientifically literate citizens and to understand the environment in which they live. The College pursues innovative avenues for educational outreach. Efforts are made to attract more junior and senior level undergraduates into both the ocean science core courses and into advanced courses for which they have pre-requisites. Historically, this is a way in which students have made career decisions to engage in ocean science. In this manner the College maintains close ties with the student body in other University of South Florida colleges and campuses.

Research Facilities:

The College facilities include specialized laboratories equipped for studies in: Scanning and transmission electron microscopy; Trace metal analysis; Water quality; Organic and isotope geochemistry, Physical chemistry, Optical oceanography, Satellite imagery; Sedimentology; Geophysics; Physical Oceanography; Micropaleontology; Physiology; Benthic Ecology; Microbiology; Planktology; and Ichthyology. Additionally, the complex includes the Center for Ocean Technology, which provides instrumental manufacturing and prototyping support to the faculty and students.

The College's students and faculty have conducted research in the Antarctic, Arctic, Atlantic, Indian, and Pacific Oceans, as well as the Bering, Mediterranean, and Caribbean Seas. The College has access to 5 research vessels in conjunction with the Florida Institute of Oceanography (FIO) and the U.S. geological Survey: The RV Weatherbird II (115 ft), the RV Bellows (71 ft), the RV Gilbert (42 ft), the RV Fish Hawk (38 ft), and the RV Price (24 ft). Ship time on other vessels in the U.S. fleet of oceanographic vessels, as well as foreign research vessels, is generally obtained through federal funding.

Major Research Areas:

Faculty major research areas as listed at: <https://www.marine.usf.edu/about-us/directory/faculty-directory/>



Department of Marine Science

Major



Marine Science, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Biological Oceanography
Chemical Oceanography
Geological Oceanography
Interdisciplinary
Marine Resource Assessment
Physical Oceanography

Contact Information

College: Marine Science

Contact Information: <http://www.grad.usf.edu/majors>

Website: <http://www.marine.usf.edu/>

Email: Marinescience@usf.edu

The College of Marine Science (CMS) offers M.S. and Ph.D. degrees in Marine Science. This research-based major has a low student-to-faculty ratio, with an average of 100 graduate students under the direction of ~ 30 full-time faculty. Students in the Marine Science major may elect a concentration in biological, chemical, geological, or physical oceanography, or Marine Resource Assessment through course work and thesis research. CMS graduates are well prepared for positions in academia, industry, government agencies, and non-governmental organizations at local to international levels.

Biological Oceanography

Biological Oceanographers seek to understand the life histories and population dynamics of marine organisms and how they interact with their environment over space and time. Scientists in the College of Marine Science study the full breadth of biological oceanography including microbiology, phytoplankton, zooplankton, benthos, coral reefs, fishes, and marine mammals. Our biological oceanographers utilize a variety of techniques including SCUBA, shipboard samplers, acoustics, molecular biology, and mathematical modeling to understand the oceans and their inhabitants. Scientists in our college also use the latest in remote sensing technology to study vast regions of the Earth's oceans, and have developed new technology, capable of identifying and quantifying harmful algal blooms and related processes.

Chemical Oceanography

Chemical oceanographers seek to understand the ways in which various chemical forms are cycled within the oceans, and the reactions that influence biogeochemical cycles. Ocean chemists improve our understanding of the basic conditions under which ocean life thrives in seawater, and help predict the effects of anthropogenic and natural climate change on ocean composition. Research programs in the College of Marine Science include wide ranging topics such as the role and variability of nutrients in seawater, the distribution and cycling of both biologically-essential and toxic trace metals, the oceans' CO₂ system, dissolved organic matter, molecular organic compounds, radionuclides and stable isotopes, and the distribution of chemical pollutants and their interactions with marine organisms and ecosystems. Faculty and students utilize a wide variety of state-of-the-art instrumentation and technology for conducting this research.



Geological Oceanography

Geological oceanographers in the College of Marine Science conduct research from the continental margins to the deep-ocean seafloor. Their work extends from modern environments to millions of years before present to understand and predict Earth surface and interior processes. Primary research themes include: (1) paleoceanography and paleoclimatology; (2) coastline and continental shelf development and processes including effects of storms and sea-level fluctuations; (3) the health of modern coral reefs; (4) carbonate depositional processes; (5) anthropogenic influences on estuaries; (6) mathematical descriptions of geologic phenomena; and (7) plate tectonics. Our geological oceanography group has a variety of modern well-equipped laboratories and field equipment, including one of the best seafloor mapping capabilities in the US. Fully integrated with these field instruments is the computational capability to generate state-of-the-art data depictions and imagery. Our group also works closely with scientists from the US Geological Survey's Center for Coastal and Marine Science Center, a major federal laboratory located nearby.

Physical Oceanography

Physical oceanography involves the study of water movement in the ocean. Energy is introduced to the ocean through wind and solar heating, and these combine with the rotation of the Earth and gravitational effects to drive ocean circulation, tides, and waves. Our physical oceanographers also investigate how the Earth's oceans are directly coupled with the atmosphere, from local weather patterns to the global climate system. Physical oceanographers in the CMS carry out research on a variety of topics using the latest technology. Computer models, real time data, satellite remote sensing, and in situ data from moored arrays, coastal tide gauges, and research cruises are used to study a wide range of research problems. Topics include tide and current prediction in Tampa Bay, circulation on the West Florida Shelf and in the Gulf of Mexico, El Niño phenomena, and the potential for global climate change.

Marine Resource Assessment

The College of Marine Science offers an interdisciplinary concentration in Marine Resource Assessment (MRA) as part of its M.S. and Ph.D. majors. This concentration provides training in the emerging field of ecosystem-based management. Its mission is to train a new generation of scientists that can effectively address issues concerning the sustainability of the world's living natural resources. The MRA concentration addresses the national shortage of graduates possessing the skills required for managing living marine resources by teaching a quantitative approach to ecosystem analysis and living resource assessment. The MRA concentration is designed to produce resource assessment scientists who can introduce relevant ecosystem-level variables into the traditional, single-species assessment process, complementing and enhancing the development of science-based management policies that protect living marine resources.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Meeting these criteria shall not be the only basis for admission. Complete and up-to-date application instructions can be found at <http://www.marine.usf.edu/students/how-to-apply>

- Bachelor's degree or equivalent from an accredited university (Preferable majors include biology, chemistry, geology, physics, and math).
- Have completed all of the coursework listed on our website (<http://www.marine.usf.edu>) under "Undergraduate Preparation".
- Have taken the Graduate Record Examination (GRE) within 5 years preceding the application. Preferred minimum scores are as follows: Verbal = 153 (59th percentile), Quantitative = 148 (32nd percentile). Preferred minimum scores for Marine Resource Assessment concentration are: Verbal = 156(71st percentile), Quantitative = 155 (60th percentile).
- Have the commitment of a Marine Science faculty member to serve as advisor during the student's graduate studies.



Required Application Materials

- research interest essay (use template from Marine Science website) -
- a resume or curriculum vitae
- three letters of recommendation
- official transcripts of grades
- GRE exam scores

Curriculum Requirements

Total Minimum Hours - 32 hours

- **Core Requirements - 12 Credit Hours**
- **Concentration - 14 Credit Hours**
- **Thesis - 6 Credit Hours**

A committee, consisting of a major advisor and at least 2 other members of the graduate faculty, will be appointed to supervise and guide the major of each student.

Core Requirements (12 Credit Hours)

Core courses completed with a grade of "B" or better:

- OCB 6050 Biological Oceanography **Credit Hours: 3**
- OCC 6050 Chemical Oceanography **Credit Hours: 3**
- OCG 6051 Geological Oceanography **Credit Hours: 3**
- OCP 6050 Physical Oceanography **Credit Hours: 3**

Concentration Requirements (14 Credit Hours)

Students select one of the following concentrations and complete 14 hours of electives within the concentration subject area (or other courses as approved by the Graduate Director). Note: At least 8 of these credit hours must be in formal courses to satisfy the USF requirement of 20 hours of formal coursework.

Biological Oceanography (BOC)
Chemical Oceanography (COG)
Geological Oceanography (GOG)
Interdisciplinary (IDY)
Marine Resource Assessment (MRA)*
Physical Oceanography (POG)

*Students in Marine Resource Assessment Concentration

* Students in Marine Resource Assessment Concentration area are required to take 3 courses from the following list (totaling 9 credit hours) as part of their concentration requirements:

- Population Dynamics **Credit(s): 3**



- Fish Biology **Credit(s): 3**
- Dynamics of Marine Ecosystems **Credit(s): 3**
- Applied Multivariate Statistics **Credit(s): 3**

Elective Requirements

Electives are taken within each concentration area (see above)

Comprehensive Exam Requirements

In lieu of a standard Comprehensive Exam, M.S. students must only pass their thesis defense. M.S. students planning to remain in CMS and enter the Ph.D. after completion of their M.S. are invited and encouraged to take the Integrated Marine Science Exam (IMSE) after their first or second year in the M.S. Or they can wait until they are in the Ph.D.

Thesis Requirements (6 Credit Hours)

- A minimum of 6 credits of OCE 6971 (Thesis credit hours)
- A written thesis
- A successful thesis defense examination

Other Requirements

- Other coursework as required by thesis advisory committee



Marine Science, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Biological Oceanography
Chemical Oceanography
Geological Oceanography
Interdisciplinary
Marine Resource Assessment
Physical Oceanography

Contact Information

College: Marine Science

Contact Information: <http://www.grad.usf.edu/majors>

Website: <http://www.marine.usf.edu/>

Email: Marinescience@usf.edu

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Chemical Oceanography

Chemical oceanographers seek to understand the ways in which various elements are cycled within the oceans, and the reactions that influence biogeochemical cycles. Ocean chemists improve our understanding of the basic conditions under which ocean life thrives in seawater, and help predict the effects of anthropogenic and natural climate change on ocean composition. Research programs in the College of Marine Science include such wide ranging topics as the role and variability of nutrients in seawater, the distribution and cycling of both biologically-essential and toxic metals, the oceans' CO₂ system, dissolved organic matter, molecular organic compounds, radionuclides and stable isotopes and the distribution of chemical pollutants and their interactions with marine organisms and ecosystems. Faculty and students utilize a wide variety of state-of-the art instrumentation and technology for conducting this research. .

Geological Oceanography



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1. paleoceanography and paleoclimatology
2. coastline and continental shelf development and processes including effects of storms and sea-level fluctuations
3. the health of modern coral reefs
4. carbonate depositional processes
5. anthropogenic influences on estuaries
6. mathematical descriptions of geologic phenomena and
7. plate tectonics.

Our geological oceanography group has a variety of modern well-equipped laboratories and field equipment, including one of the best seafloor mapping capabilities in the US. Fully integrated with these field instruments is the computational capability to generate state-of-the-art data depictions and imagery. Our group also works closely with scientists from the US Geological Survey's Center for Coastal and Marine Science Center, a major federal laboratory located nearby.

Physical Oceanography

Physical oceanography involves the study of water movement in the ocean. Energy is introduced to the ocean through wind and solar heating, and these combine with the rotation of the Earth and gravitational effects to drive ocean circulation, tides, and waves. Our physical oceanographers also investigate how the Earth's oceans are directly coupled with the atmosphere, from local weather patterns to the global climate system. Physical oceanographers in the CMS carry out research on a variety of topics using the latest technology. Computer models, real time data, satellite remote sensing, and in situ data from moored arrays, coastal tide gauges, and research cruises are used to study a wide range of research problems. Topics include tide and current prediction in Tampa Bay, circulation on the West Florida Shelf and in the Gulf of Mexico, El Niño phenomena, and the potential for global climate change.

Marine Resource Assessment

The College of Marine Science offers an interdisciplinary concentration in Marine Resource Assessment as part of its M.S. and Ph.D. majors. This concentration provides training in the emerging field of ecosystem-based management. Its mission is to train a new generation of scientists that can effectively address issues concerning the sustainability of the world's living natural resources. The MRA concentration addresses the national shortage of graduates possessing the skills required for managing living marine resources by teaching a quantitative approach to ecosystem analysis and living resource assessment. The concentration is designed to produce resource assessment scientists who can introduce relevant ecosystem-level variables into the traditional, single-species assessment process, complementing and enhancing the development of the science-based management policies that protect living marine resources.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Meeting these criteria per se shall not be the only basis for admission. Complete application instructions can be found on the college website: <http://www.marine.usf.edu/students/how-to-apply>

- Bachelor's degree or equivalent from an accredited university (Preferable majors include biology, chemistry, geology, physics or math)
- Have completed all of the coursework listed on our website (<http://www.marine.usf.edu>) under "Undergraduate Preparation"
- Have taken the Graduate Record Examination (GRE) within 5 years preceding application. Preferred minimum scores are as follows: Verbal = 135 (59th percentile), Quantitative = 148 (32nd percentile). Preferred minimum scores for Marine Resource Assessment concentration are: Verbal = 156 (71st percentile), Quantitative = 155 (60th percentile).



- Have the commitment of a Marine Science faculty member to serve as advisor during the student's graduate studies.

Required Application Materials

- research interest statement (use template from Marine Science website)
- a resume or curriculum vitae
- three letters of recommendation
- official transcripts of grades
- GRE exam scores

Curriculum Requirements

Total Minimum Hours Required: 90 hours beyond the Bachelor's

- **Core Requirements - 12 Credit Hours**
- **Concentration - 12 Credit Hours Minimum**
- **Electives**
- **Dissertation - 16 Credit Hours Minimum**

Students must complete a minimum of 90 credit hours beyond the Bachelor's degree, (12 hours of core requirements, 16 hours of dissertation, and 62 hours split between coursework and research as determined by the committee).

A committee, consisting of a major advisor and at least four other members of the graduate faculty, is appointed to supervise and guide the major of the candidate. One member shall be from a department outside of the College of Marine Science.

Core Requirements (12 Credit Hours)

Core courses completed with a grade of "B" or better

- OCB 6050 Biological Oceanography **Credit Hours: 3**
- OCC 6050 Chemical Oceanography **Credit Hours: 3**
- OCG 6051 Geological Oceanography **Credit Hours: 3**
- OCP 6050 Physical Oceanography **Credit Hours: 3**

Concentration Requirements

Students select one of the following concentrations. There is no minimum credit requirement except for the Marine Resource Assessment Concentration:

Biological Oceanography (BOC)
Chemical Oceanography (COG)
Geological Oceanography (GOG)
Interdisciplinary (IDY)
Marine Resource Assessment (MRA)*
Physical Oceanography (POG)

*Students in the Marine Resource Assessment Concentration



*Students in the Marine Resource Assessment Concentration area are required to take three courses from the following list (totaling nine credit hours) as part of their concentration requirements:

- Population Dynamics **Credit(s): 3**
- Fish Biology **Credit(s): 3**
- Dynamics of Marine Ecosystems **Credit(s): 3**
- Applied Multivariate Statistics **Credit(s): 3**

Elective Requirements

Electives are taken within each concentration area (see above)

Comprehensive Qualifying Exam Requirements

There will be an Integrated Marine Science Exam (IMSE) administered early each Fall semester. The exam aims to judge a student's ability, upon successful completion of the four core classes (B- or better), to integrate the concepts covered in these classes. All students will take the same exam, at the same time, and questions will be determined by a committee to be appointed by the Dean. All Ph.D. students are expected to take this exam no later than the beginning of their third year (to allow for students who take 2 years to finish the core classes because of other course requirements or if they do not start in the fall term). M.S. students who anticipate continuing in the major to obtain their Ph.D. are encouraged to take this exam, which will fulfill this requirement as long as they enter the Ph.D. major within 7 years of successfully completing the exam. The IMSE is a written exam, followed by optional oral exam if the student does not perform satisfactorily on the written exam. If the student fails the exam, he/she has a second chance to pass the exam in the following year. If a student fails the exam twice, he/she may not proceed in the Ph.D. major.

After passing the IMSE, students are expected to form their dissertation committee, have their research proposal approved by the committee, and to take and pass a Ph.D. Candidacy Exam (PCE) administered by the dissertation committee. The qualifying exam is meant to test the students' in-depth knowledge in their area of concentration and/or dissertation research. The PCE must consist of a 2-4 hour oral exam, with an optional written exam (which could be prior to or after the oral exam) at the discretion of the student's major advisor. The student is expected to take and pass the PCE no later than the start of their fourth year. A student has two chances to pass the PCE in order to become a Ph.D. candidate and must do so prior to beginning their fifth year. Students failing the first time must take the exam again within one year of the first try. If a student fails the exam twice, he/she may not proceed in the Ph.D. major.

Dissertation Requirements (16 Credit Hours)

- A minimum of 16 credits of OCE 7980 (Dissertation credit hours). Following admission to candidacy, the student must enroll in OCE 7980 when engaged in research, data collection, or writing activities relevant to the dissertation. The student is required to accumulate a minimum of 6 credits during each previous 12 month period (previous 3 terms, e.g., Fall, Spring, Summer) until the degree is granted.
- A written dissertation
- A successful dissertation defense examination

Other Requirements

Other coursework as required by dissertation advisory committee

Graduate Certificate



Teaching & Communicating Ocean Sciences Broader Impacts Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered partially online.

Description

The Teaching and Communicating Ocean Sciences Broader Impacts Graduate Certificate program is intended to develop, practice and advance students skill set to lead broader impact activities and compete for competitive grant writing. Course activities will include practice in outdoor natural environments, labs and classrooms. Students will develop syllabus and practice teaching a component of an undergraduate STEM course, and a pre-college STEM program.

Course Location/Delivery

Partial, Campus (St. Pete)

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

- OCE 6940C Experiential Learning in Marine Science **Credit Hours: 1-4 (3 credits for this program)**
- OCE 6948 - Scientist in the Classroom **Credit(s): 3**
- OCE 6949C Developing and Teaching a STEM Course **Credit Hours: 1-4 (3 credits for this program)**

Choose one of the following (3 Credit Hours)

*Other courses as approved by the Certificate Director

Electives

- OCE 6950 Teaching the Broader Impacts of Ocean Sciences **Credit Hours: 1-4 (3 credits for this program)**



- OCE 6921 Professional Development I **Credit Hours: 2**

Time Limit

5 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



College of Nursing

College of Nursing

NR - Programs

University of South Florida
College of Nursing
12901 Bruce B. Downs Blvd. MDC22
Tampa, FL 33612

Web address: <https://health.usf.edu/nursing>

Email: nurstudent@health.usf.edu

Phone: 813-974-2191

Fax: 813-974-5418

Interim Dean Usha Menon, Ph.D., R.N., F.A.A.N.

Vice Dean, Graduate Programs Denise Maguire, Ph.D., R.N., C.N.L., F.A.A.N

Associate Dean Graduate Clinical Programs Tracey Taylor, D.N.P., ACNP-BC, RN

Associate Dean, Ph.D. Program Theresa Beckie, Ph.D., M.N., R.N., F.A.H.A., F.A.A.N.

Director, Student Affairs Brocdyl Joseph Porta, Ed.D.

Accreditation:

The baccalaureate, master's, and DNP programs at the USF College of Nursing are accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791. In addition, the Nurse Anesthesia program is accredited by the Council of Accreditation of Nurse Anesthesia Educational Programs, 222 South Prospect Avenue, Suite 304, Park Ridge, IL 60068-4041. (847) 692-7050.

Mission Statement:

USF College of Nursing provides innovation and leadership in preparing 21st-century nurses to demonstrate excellence in research, education, and clinical care while promoting health and wellness in our community and around the world.

Major Research Areas:

Consistent with its mission of preparing 21st-century nurses to improve health care throughout the world, the College of Nursing faculty and students pursue scientific inquiry across a wide range of topics. Faculty and students are challenged to analyze problems, discover new findings, as well as develop and test models for implementing evidence-based guidelines. Research is conducted collaboratively with colleagues throughout USF Health and other USF colleges such as Engineering, Computer Sciences, etc., to study cutting-edge questions related to: biobehavioral mechanisms of health; caregiver support; chronic illnesses such as cardiovascular health, cancer prevention and management, COPD complementary therapies to manage health and illness; digital solutions for health promotion and symptom management; precision health; and veterans' health. The College of Nursing also houses a biobehavioral lab with 2,000 dedicated square feet of space. It contains state-of-the-art equipment for conducting assays, such as inflammatory markers, stress hormones, proteomics, microbiome, and genetics.



College Requirements

For specific degree requirements for the M.S., CRNA, D.N.P., and Ph.D., degree programs in Nursing, refer to the individual listings in the Catalog. The GRE is required only for the M.S. and D.N.P. in Nurse Anesthesia, and for the Ph.D. in Nursing, degree programs.

Progression Policy

1. Graduate Clinical Programs

Audience: All graduate clinical nursing programs (MS, DNP, NED)

1.1 Students must earn the grade of 'B' (84%) or higher in each required nursing course in their respective nursing concentration. An unsatisfactory ('U') or any grade below a 'B' is not acceptable. Please note, the grades earned are not rounded.

1.2 Students must maintain an overall grade point average (GPA) of 3.00 in order to be considered in academic "good standing" and earn a degree.

1.3 Students enrolled in the Nurse Anesthesia Major MUST obtain a 'B' or better in each Nurse Anesthesia Core course as defined in the DNP in Nurse Anesthesia Handbook, on the first attempt. Students that do not earn a 'B' or better in the Nurse Anesthesia Core courses on the first attempt will be recommended for dismissal from the Nurse Anesthesia Program.

1.4 Students earning a grade below a 'B' or receives a 'U' in a required nursing course, must submit a plan of improvement to the Academic Progression Review committee. If and when the committee approves the proposed plan, the student must register and repeat the course the next time it is offered. This includes non-core Nurse Anesthesia courses as defined in the DNP in Nurse Anesthesia Handbook.

1.5 Students that earn two (2) grades below a 'B' and/or 'U' will be recommended for dismissal to the Office of Graduate Studies from the College of Nursing.

1.6 Unsuccessful course attempts, including situations where a student participates through the withdrawal deadline and does not pay for the courses (i.e. Cancelled for Financial Reasons), will count toward the progression policy for the maximum number of withdrawals

1.7 Students are limited to a total of two course withdrawals (including withdrawals with cause, excluding military duty).

1.8 Students withdrawing in excess of the stated policy will be recommended for dismissal to the Office of Graduate Studies from the College of Nursing.

**Note; This change was approved by the entities and dates as follows:*

DNP/MCC via APG sub-committee: October 4, 2019

CON Faculty Council: October 18, 2019

USF Graduate Council: October 21, 2019

2. Ph.D. students only:

2.1. All Ph.D. students must earn the grade of 'B-' or higher in each required course in their respective nursing major. An unsatisfactory ('U') or any grade below a 'B minus' is not acceptable.

2.2. Ph.D. students must also maintain an overall grade point average of 3.00 in order to be considered in academic "good standing". Students also must meet any special conditions of their admissions. No grade below 'B-' will be accepted toward a Ph.D. graduate degree. All grades will be counted in computing the overall grade point average. Students must have an overall



GPA of 3.00 at the completion of their respective major, or they will not be awarded a degree from the University of South Florida. Unsuccessful course attempts include any withdrawal from a course or cancellation for financial reasons, except for approved "withdrawals with cause" will count toward progression policy.

2.3. If a student earns a grade below a 'B-' or receives a 'U' in a required course, she/he must repeat the course. The course must be taken in the next semester that it is offered and the student must earn a 'B' or higher. Any student, who earns below a 'B-' (or 'U') in two or more required courses or earns below a 'B-' (or 'U') in a required course twice, will be dismissed from the College. Unsuccessful course attempts, including situations where a student participates through the Withdrawal deadline and does not pay for the courses (aka: Cancelled for Financial Reasons), will count toward the progression policy. The Dean of the College of Nursing, or designee, will notify students who are dismissed in writing. Students may petition for re-admission pending approval of their respective Concentration Director. A petition must be submitted to the Vice Dean of Graduate Programs.

The Dean of the College of Nursing, or her designee (Associate Dean of Research), will notify students who are dismissed, in writing. Students may petition for re-admission pending approval of their respective Director of their concentration. A petition must be submitted to the Associate Dean of Research and the Chairperson of the Student Affairs Committee.

Clinical Performance

Patient safety and welfare are the most critical criteria of the clinical rotation. If at any time during the clinical rotation the student places the patient in an actual or potentially hazardous or unsafe situation or the faculty judges the student to be deficient in clinical competence for patient care responsibility, the student will fail the course regardless of previous clinical performance. Students who receive an unsatisfactory grade for their clinical performance may be dismissed from the major, regardless of academic standing in other classes. (enacted Fall 2004)

Human Research Conduct

The protection of the rights of human subjects is the most critical criteria of any research study involving human subjects. If at any time during the conduction of a human subject study, a student violates the rights of the participants, the study will be stopped. Permission to continue with the study will be dependent upon an investigation by the University of South Florida Institutional Review Board, the student's research advisor and the

Dean of the College of Nursing. (enacted Fall 2004)

Withdrawal Policy Withdrawals are limited to 1 per course, with a limit of 2 per undergraduate or graduate major. Withdrawals are defined as officially withdrawing from any class after the drop/add period and before the final withdrawal date as outlined in the Academic Calendar. Any student withdrawing in excess of the stated policy may be dismissed from the College of Nursing unless the College has pre-approved a documented medical and/or emergent situation.

Grading Scale

Grading scale effective spring 2014 for all nursing courses (*note – this does not change the University grading scale referenced in the Academic Policy Section of the Catalog*):

98-100=A+
94-97=A
90-93=A-
87-89=B+
84-86=B
80-83=B-
77-79=C+



74-76=C
70-73=C-
67-69=D+
64-66=D
60-63=D-
Below 60=F



Dean's Office

Graduate Certificate



Advanced Pain Management Fellowship Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered partially online.

This partially on-line program consists of five courses to be delivered sequentially over a one-year period. The concepts presented in each course will establish a framework of knowledge intended to impart the certified registered nurse anesthetist with the necessary background to understand and treat pain utilizing effective and relevant evidence based guidelines.

Location/Delivery:

The Certificate is partially online with a required two day simulation/cadaver experience at USF CAMLS. This experience most often occurs in April every year.

Admission Requirements:

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

1. Masters or Doctoral degree from an accredited institution
2. Board Certified CRNA with an appropriate graduate degree from an accredited university
3. Minimum GPA of 3.00 on all course work
4. Minimum of two years experience as a CRNA

Application Process

To learn about the application process, and to access the application, please review our application process.

In addition, to the application forms please submit:

1. A curriculum vitae
2. Transcripts from a graduate CRNA program
3. Copy of active NBCRNA card
4. Letter of Reference from a Clinical Colleague

*Note: Applications will be reviewed and students will be accepted until the maximum capacity for the graduate certificate program has been reached.

Credit Toward Graduate Degree

Credit hours from this Certificate may be eligible to apply toward a graduate degree. Check with the department for information.

Time Limit

Three semesters

Pre-Requisites (0 credit hours)

Board certified CRNA with an appropriate graduate degree from an accredited university.



Curriculum Requirements (15 credit hours)

- NGR 6470 Assessment, Radiology, and Psychology of Pain **Credit Hours: 3**
Taught in the spring as part of the five-course sequence for the certificate. The course is presented in eight separate modules.
- NGR 6471 Concepts of Pain Pathophysiology **Credit Hours: 3**
Taught in the fall as part of the five-course sequence for the certificate. The course is presented in eight separate modules.
- NGR 6472 Pharmacology of Pain Management **Credit Hours: 3** (online)
Taught in the fall as part of the five course sequence for the certificate. The course is presented in eight separate modules.
- NGR 6473C Interventional Procedures/Simulations in Pain Management **Credit Hours: 3** (Partially online)
Students must come to campus for a weekend simulation activity at the Center for Advanced Medical Learning and Simulation - CAMLS.
Taught in the spring as part of the five-course sequence for the Certificate. The course is presented in eight modules. Students must have taken NGR 6470 and NGR 6471 before enrolling in this class.
- NGR 6474C Pain Management Clinical Residency **Credit Hours: 3**
Pain Management Clinical Residency will be taught in the summer as part of the five-course sequence of the Advanced Pain Management Fellowship certificate. The course is presented in eight modules.
Most modules are divided into three sections to include an overview, content, and discussion. The overview includes a summary of activities to be presented. This is accomplished through a module activity plan, module description, and learning outcomes. The content section includes reading assignments, video presentations provided by USF faculty, and other resources in the form of on-line presentations aimed at reinforcing concepts and knowledge base. The discussion section provides thoughtful and critical questions that students must address in a discussion board format.

Contact

Contact Information: <http://www.grad.usf.edu/cert>



Nursing Education (Post Master's) Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

The goal of this graduate certificate is to prepare nurses to teach in a variety of educational and health care settings: schools of nursing; staff development departments, and/or client education programs. Upon completion of the Post-Master's Nursing Education Graduate Certificate individuals are prepared to assume beginning faculty positions and/or assume education positions in health care institutions and/or the community.

Location/Delivery

The Certificate Program is coordinated through the Tampa campus. Didactic courses are offered online. Practicum experience locations vary.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements. Applicant must have an M.S. in Nursing or Health related field from an accredited university.

Application Process

To learn about the application process, and to access the application, please review our application process. In addition, to the application forms please submit:

- Official transcripts
- A resume
- Letter of Intent
- Three letters of recommendation

Note: Application deadline is summer for students to start in fall semester.

Credit Toward Graduate Degree

N/A

Time Limit / Average time to Completion

The approximate time to complete the Certificate is three years.

Pre-Requisites

Validation of coursework in Pathophysiology, Pharmacology, and Health Assessment

Curriculum Requirements (13 Credit Hours)

- NGR 6713 Foundations of Nursing Education **Credit Hours: 3**



- NGR 6710 Teaching Strategies in Nursing Education **Credit Hours: 3**
- NGR 6718 Evaluation Strategies for Nursing Education **Credit Hours: 3**
- NGR 6947 Clinical Education/Clinical Practice Practicum in Nursing Education **Credit Hours: 2**
- NGR 6940 Classroom/Online Teaching Practicum **Credit Hours: 2**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Department of Nursing

Major



Nurse Anesthesia, D.N.P.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the D.N.P. in Nursing.

Contact Information

College: Nursing

Contact Information: <http://www.grad.usf.edu/majors>

The major in nursing leading to a Doctor of Nursing Practice degree prepares its graduates for careers as nurse Anesthetists. Successful completion of the Doctor of Nursing Practice's Nurse Anesthesia degree program qualifies students to take appropriate national certification examinations and apply for state licensure.

Graduate Major Objectives:

1. Develop, implement and evaluate new evidence based practice approaches to caring for patients in the peri-anesthetic environment.
2. Ensure accountability for quality care and patient safety for varied patient populations, displaying sensitivity to various cultural norms in the application of scientific principles of care.
3. Demonstrate the ability to apply appropriate analytics for the evaluation and application of scientific evidence to inform clinical practice.
4. Utilize technological information systems to evaluate outcomes of care, healthcare delivery and quality improvement.
5. Provide the leadership necessary to develop health care policy in order to improve patient safety, improve health care financing, reducing the barriers to pain management and improving patient access to care.
6. Develop trans-disciplinary teams who collaboratively address the health care needs of individuals and populations.
7. Analyze epidemiological, bio-statistical, environmental and occupational data for the development, implementation and evaluation of programs of population health.
8. Provide clinical practice incorporating bio/psycho/social, cultural, economic, ethical and scientific principles.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major and requirements listed in the introductory portion of the college catalog section.

- Recommended science GPA of 3.00.
- Required Undergraduate Coursework includes: Pathophysiology (3 credits), Pharmacology (3 credits), Anatomy and Physiology (6 credits), Health Assessment (3 credits), Chemistry (3 credits), Statistics (3 credits) – with a grade of B or Better. If prerequisite science coursework is greater than ten years old, repeating or supplementing with a refresher course at the undergraduate level is highly recommended.
- Competitive score (performance score at or above the 50th percentile on each of the three sub tests) on Graduate Record Examination (GRE), taken within five years of application
- Current unencumbered license as a registered nurse and/or advanced practice nurse in the United States upon matriculation. Current license as a registered nurse and/or advanced practice nurse in the state of Florida, or a compact multi-state license allowing practice in the state of Florida, before the first clinical course.



- Three letters of recommendation, indicating potential for graduate study, from persons who can attest to the applicant's academic ability, clinical competence, and commitment. The Nurse Anesthesia Major requires one letter from each of the following: current nursing supervisor, CRNA or physician anesthesiologist, current or prior nursing faculty.
- Personal statement of goals
- Current resume or curriculum vitae
- A minimum of two current years of experience as an RN in an aggressive adult and/or pediatric Intensive Care Unit (ICU) must be completed prior to matriculation into the program.
- Current Basic Life Support (BLS), Advanced Cardiac Life Support (ACLS) certifications are required.
- Critical Care Registered Nurse (CCRN) Certification is highly recommended.

"A critical care area is defined as one where, on a routine basis, the registered professional nurse manages one or more of the following: invasive hemodynamic monitors (such as pulmonary artery catheter, CVP, arterial); cardiac assist devices; mechanical ventilation; and vasoactive infusions. Examples of critical care units may include but are not limited to: Surgical Intensive Care, Cardiothoracic Intensive care, Coronary Intensive Care, Medical Intensive Care, and Pediatric Intensive Care. Those who have experiences in other areas may be considered provided they can demonstrate competence with managing unstable patients, invasive monitoring, ventilators, and critical care pharmacology."

- Council on Accreditation of Nurse Anesthesia Programs.

- Current Basic Life Support (BLS), Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life support (PALS) Certifications must be maintained while in program.
- A personal interview with the CRNA Program Panel is required
- Statement of good physical, mental and emotional health to be verbally provided during interview.

Curriculum Requirements

The D.N.P. in Nurse Anesthesia requires completion of the credit hours required by the major. Sequencing of courses is particularly important and academic advisors work with students to design full-time program plans in the major. The classes contain the principles and practices in all applications of anesthesia. The Nurse Anesthesia major is independent of the USF academic calendar. During certain rotations in the clinical phase, weekends, nights, and 24-hour rotations will be expected.

Total Minimum Hours - 94 Credit Hours Post-bachelors

- **Shared Core Requirements - 15 Credit Hours**
- **Additional Required Courses - 74 Credit Hours**
- **Practicum - 1 Credit Hour**
- **Doctoral Project - 4 Credit Hours**

Shared Core Requirements (15 Credit Hours)

- NGR 6673 Epidemiology for Advanced Nursing **Credit Hours: 3**
- NGR 7848 Fundamentals of Statistics for Clinicians **Credit Hours: 3**
- NGR 7874 Informatics and Patient Care Technology **Credit Hours: 3**
- NGR 7766 Health Systems Leadership and Interprofessional Practice **Credit Hours: 3**
- NGR 7892 Health Care Policy and Clinical Prevention for Improving Population Health **Credit Hours: 3**

Additional Required Courses (74 Credit Hours)

- NGR 6002C Advanced Health Assessment Across the Lifespan **Credit Hours: 4**



- NGR 6152 Advanced Physiology and Pathophysiology **Credit Hours: 4**
- NGR 6157 Advanced Physiology and Pharmacology for Nurse Anesthetists **Credit Hours: 4**
- NGR 6400 Chemistry, Biochemistry and Physics for Nurse Anesthesia **Credit Hours: 3**
- NGR 6404 Advanced Anatomy and Physiology for Nurse Anesthetists **Credit Hours: 4**
- NGR 6420 Foundations & Methods of Nurse Anesthesia Practice **Credit Hours: 4**
- NGR 6422 Principles of Nurse Anesthesia through the Lifespan **Credit Hours: 3**
- NGR 6423 Theoretical Foundations of Nurse Anesthesia: Advanced Principles I **Credit Hours: 3**
- NGR 6424 Theoretical Foundations: Anesthesia Advanced Practice II **Credit Hours: 3**
- NGR 6431 Nurse Anesthesia Clinical Residency I **Credit Hours: 1** (1 Credit Hour for this program)
- NGR 6432 Nurse Anesthesia Clinical Residency II **Credit Hours: 2**
- NGR 6433 Nurse Anesthesia Clinical Residency III **Credit Hours: 4**
- NGR 6434 Nurse Anesthesia Clinical Residency IV **Credit Hours: 4**
- NGR 6435 Nurse Anesthesia Clinical Residency V **Credit Hours: 3**
- NGR 6436 Nurse Anesthesia Clinical Residency VI **Credit Hours: 4**
- NGR 6440L Nurse Anesthesia Simulation Lab I: Introduction to Clinical Practicum **Credit Hours: 2**
- NGR 6441L Nurse Anesthesia Simulation Lab II **Credit Hours: 2**
- NGR 6442L Nurse Anesthesia Simulation Lab III: Special Procedures **Credit Hours: 1** (1 Credit Hour for this program)
- NGR 6460 Nurse Anesthesia Pharmacology **Credit Hours: 3**
- NGR 6471 Concepts of Pain Pathophysiology **Credit Hours: 3**
- NGR 6472 Pharmacology of Pain Management **Credit Hours: 3**
- NGR 6491 Nurse Anesthesia Practice Comprehensive **Credit Hours: 2** (*taken twice for 4 credits total*)
- NGR 6492 Nurse Anesthesia Role: Practice Management, Quality Improvement, and Patient Safety **Credit Hours: 3**
- NGR 6803 Research and Evidence-Based Practice **Credit Hours: 3**

Comprehensive Qualifying Examination

Comprehensive competency testing is done through two mechanisms. Currently this requirement is typically fulfilled during the final semester of study and consists of:

- One is a comprehensive oral boards examination which is evaluated by a faculty panel.
- The other mechanism is through the Self-Evaluation Exam (SEE) which is created by the NBCRNA for Nurse Anesthetists who oversees national certification and professional licensure. The SEE is required twice during the major.

Practicum (1 Credit Hour Minimum)

- NGR 7945 Doctor of Nursing Practice Practicum **Credit Hours: 1-7** (1 Credit Hour for this program)

Doctoral Project (4 Credit Hours Minimum)

- NGR 7974 Doctor of Nursing Practice Project **Credit Hours: 1-3** (4 Credit Hours for this program)

Dissertation

This is a clinical program; no dissertation is required

Course Sequence



The following is the scheduled course sequence. This is subject to change pending faculty availability. Students should confirm the sequence as part of their advising and Program of Study.

Total Credit Hours: 94

Estimated Clinical Hours: 3600

Summer Semester 1

- NGR 7892 Health Care Policy and Clinical Prevention for Improving Population Health online
- NGR 7874 Informatics and Patient Care Technology online
- NGR 7766 Health Systems Leadership and Interprofessional Practice online

Semester Total 9

Fall Semester 2

- NGR 6404 Advanced Anatomy and Physiology for Nurse Anesthetists
- NGR 6157 Advanced Physiology and Pharmacology for Nurse Anesthetists
- NGR 6002C Advanced Health Assessment Across the Lifespan
- NGR 6400 Chemistry, Biochemistry and Physics for Nurse Anesthesia

Semester Total 15

Spring Semester 3

- NGR 6152 Advanced Physiology and Pathophysiology
- NGR 6460 Nurse Anesthesia Pharmacology
- NGR 6420 Foundations & Methods of Nurse Anesthesia Practice
- NGR 6440L Nurse Anesthesia Simulation Lab I: Introduction to Clinical Practicum
- NGR 6492 Nurse Anesthesia Role: Practice Management, Quality Improvement, and Patient Safety

Semester Total 16

Summer Semester 4

- NGR 6422 Principles of Nurse Anesthesia through the Lifespan
- NGR 6423 Theoretical Foundations of Nurse Anesthesia: Advanced Principles I
- NGR 6441L Nurse Anesthesia Simulation Lab II
- NGR 6431 Nurse Anesthesia Clinical Residency I
- NGR 6673 Epidemiology for Advanced Nursing online

Semester Total 12

Fall Semester 5

- NGR 6424 Theoretical Foundations: Anesthesia Advanced Practice II
- NGR 6442L Nurse Anesthesia Simulation Lab III: Special Procedures
- NGR 7848 Fundamentals of Statistics for Clinicians online
- NGR 6432 Nurse Anesthesia Clinical Residency II
- NGR 6803 Research and Evidence-Based Practice online

Semester Total 12

Spring Semester 6



- NGR 6471 Concepts of Pain Pathophysiology - online
 - NGR 7974 Doctor of Nursing Practice Project - proposal development
 - NGR 6433 Nurse Anesthesia Clinical Residency III
- Semester Total 9

Summer Semester 7

- NGR 6472 Pharmacology of Pain Management - online
 - NGR 7974 Doctor of Nursing Practice Project - Implementation/Analysis
 - NGR 6434 Nurse Anesthesia Clinical Residency IV
- Semester Total 9

Fall Semester 8

- NGR 6491 Nurse Anesthesia Practice Comprehensive
 - NGR 7945 Doctor of Nursing Practice Practicum
 - NGR 6435 Nurse Anesthesia Clinical Residency V
- Semester Total 6

Spring Semester 9

- NGR 6491 Nurse Anesthesia Practice Comprehensive
 - NGR 6436 Nurse Anesthesia Clinical Residency VI
- Semester Total 6



Nursing (BSN to MSN), M.S.N.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Adult-Gerontology Acute Care Nursing
Adult-Gerontology Primary Care Nursing
Adult-Gerontology Primary Care / Occupational Health Nursing ()
Family Health Nursing
Nursing Education
Pediatric Health Nursing
Psychiatric-Mental Health Nursing

Also offered as a Concurrent Degree

Contact Information

College: Nursing

Contact Information: <http://www.grad.usf.edu/majors>

The major in Nursing leading to a Master of Science in Nursing (M.S.N.) degree prepares its graduates for careers as nurse practitioners and nurse educators. Students choose from a variety of nursing specialty options in advanced practice roles and enroll in a prescribed set of core courses central to all specialty options as well as courses specific to their concentration. Successful completion of the master's practitioners program qualifies students to take appropriate national certification examinations and apply for licensure as an APRN in Florida and other states. Nurse Educator graduates are eligible for national certification from the National League of Nursing, and the American Association of the Colleges of Nursing.

Master's Program Goals

The Master's Program prepares graduates:

- for advanced practice with diverse populations at the individual, family and community level
- to use patient-care and communication technologies to enhance and coordinate the delivery of high quality, culturally appropriate care
- to translate research outcomes, resolve problems, and disseminate results in the educational and clinical practice settings
- to utilize organizational and systems leadership skills in the promotion of culturally responsive, high quality and safe patient care
- to analyze and intervene at the system level through the policy development process
- to understand health professions' scope of practice employing collaborative strategies to design, coordinate and evaluate care
- to develop a more extensive and in-depth understanding of current and evolving practice issues, interprofessional and collaborative practice models, innovative health care strategies, nursing, and the related sciences; and in turn how to integrate this knowledge into education and practice.
- to critique, advocate, and integrate the knowledge created by researchers, translationalists, and theoretical scholars
- to use data from technology systems to evaluate and enhance health care delivery.

Major Research Areas



Nursing, Health, Healthcare, Practice, Clinical Prevention, Health Assessment, Health Management, Acute Care, Nursing Education

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below. Certain concentrations are highly competitive. Admission criteria include:

- Bachelor's in Nursing or RN with Bachelors in relevant field.
- Current unencumbered license as a registered nurse and/or an advanced practice nurse in the United States upon matriculation. Current license as a registered nurse and/or an advanced practice nurse in the State of Florida before the first clinical course.
- Three letters of recommendation, indicating potential for graduate study, from persons who can attest to the applicant's academic ability, clinical competence, and commitment. Optimally, these letters will be from a healthcare provider (such as an APRN, PA or MD), nursing professors, and clinical supervisors.
- Current resume or curriculum vita.
- A personal interview with a designated faculty member is required
- Applicants to the M.S.N. program are required to complete both a NursingCAS application and a USF Graduate Studies Application.
- It is recommended, but not required, to submit competitive GRE scores.
- Applicants interested in the Adult Gerontology Acute Care concentration must have at least one year of ICU /acute care work experience prior to matriculation to meet professional practice requirement for clinical placements.
- Registered nurses who have a bachelor's degree in another discipline will be required to complete the following bridge courses with a letter grade of "B/S" or greater and a GPA of 3.00 or better before progression:
 - NUR 3805 - Nursing as a Profession **Credit(s): 3**
 - NUR 4169C - Evidence Based Practice for Baccalaureate Nurses **Credit(s): 3**
 - NUR 4634C - Population Health **Credit(s): 3**
 - NUR 4828C - Foundations of Nursing Leadership & Management **Credit(s): 3**
 - NUR 4895 - Educational Role of Nurse in Healthcare **Credit(s): 3**

Note - to view information on the Undergraduate Courses, refer to the Undergraduate Catalog.

Please note before starting the application process, international students may have additional restrictions stipulating course delivery format for their program of choice. Please refer to USF World for further information on these requirements.

Curriculum Requirements

Total Minimum Credit Hours - 40

- **Core - 24 credit hours minimum**
- **Additional Required Course - 3 Credit Hours***
- **Concentration - 16 credit hours minimum**

*not required for Nursing Education Concentration

Students must complete the Major core requirements and then the requirements as specified for the Concentration. Concentration hours vary, so in some instances students will graduate with more than the 42 hour minimum for the major. Minimum hours required for the major and selected concentration must be satisfied for degree completion.

Sequencing of courses is particularly important and core requirement courses below must be successfully completed prior to beginning clinical coursework. All foundational level clinical courses in the advanced practice nursing tracks must be completed in sequence per an



approved program plan unless otherwise approved by faculty.

Core Requirement (24 Credit Hours)

- NGR 6803 Research and Evidence-Based Practice **Credit Hours: 3**
- NGR 6638 Health Promotion, Clinical Prevention, and Population Health for Advanced Practice Nurses **Credit Hours: 3**
- NGR 6733 Organizational and Systems Leadership and Quality Improvement for Advanced Practice Nurses **Credit Hours: 3**
- NGR 6893 Systems and Populations in Healthcare **Credit Hours: 3**
- NGR 6002C Advanced Health Assessment Across the Lifespan **Credit Hours: 4 ***
- NGR 6152 Advanced Physiology and Pathophysiology **Credit Hours: 4 ***
- NGR 6172 Pharmacotherapeutics for Advanced Practice Nursing **Credit Hours: 4 ***

Note: Courses with a "C" in the course number designate a combined didactic and clinical format

Additional Required Course (3 Credit Hours)

- NGR 6064C Advanced Diagnostics & Procedures **Credit Hours: 3** *this course is not required for the Nursing Education Concentration

**M.S.N. students must have between 540 to 720 post-baccalaureate supervised clinical hours at the time of graduation, depending on the concentration. All clinical placements will be in Florida and may be anywhere in the state.

Concentrations:

Students can select from the following Concentrations:

Acute-Gerontology Acute Care Nursing Concentration (21 credit hours)

- NGR 6210 Clinical Management of the Acutely III Adult **Credit Hours: 4**
- NGR 6210L Clinical Management of the Acutely III Adult Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6232 Clinical Management of Acute and Critically III Adults and Older Adults **Credit Hours: 4**
- NGR 6232L Clinical Management of Acute and Critically III Adults and Older Adults Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6211 Acute Care of Adults and Older Adults: Special Topics **Credit Hours: 4**
- NGR 6211L Acute Care of Adults and Older Adults: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)

Adult-Gerontology Primary Care/Occupational Health Nursing Concentration (35 credit hours)

- NGR 6207 Health Management of Adults and Older Adults I **Credit Hours: 3**
- NGR 6207L Health Management of Adults and Older Adults I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6244 Health Management of Adults and Older Adults II **Credit Hours: 3**
- NGR 6244L Health Management of Adults and Older Adults II Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6291 Health Management of Adults and Older Adults: Special Topics **Credit Hours: 3**
- NGR 6291L Health Management of Adults and Older Adults: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6650 Occupational Health Nursing I **Credit Hours: 2**
- NGR 6651 Occupational Health Nursing II **Credit Hours: 2**



- PHC 6355 Principles of Occupational Safety **Credit Hours: 3**
- PHC 6364 Industrial Hygiene Aspects of Plant Operations **Credit Hours: 2**
- PHC 6934 Selected Topics in Public Health **Credit Hours: 1-6**
Occupational Health and Safety Foundations (3 credit hours)
- PHC 6356 Industrial Hygiene **Credit Hours: 2**
- PHC 6351 Occupational Medicine for Health Professionals **Credit Hours: 3**

Adult-Gerontology Primary Care Nursing Concentration (18 credit hours)

- NGR 6207 Health Management of Adults and Older Adults I **Credit Hours: 3**
- NGR 6207L Health Management of Adults and Older Adults I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6244 Health Management of Adults and Older Adults II **Credit Hours: 3**
- NGR 6244L Health Management of Adults and Older Adults II Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6291 Health Management of Adults and Older Adults: Special Topics **Credit Hours: 3**
- NGR 6291L Health Management of Adults and Older Adults: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)

Family Health Nursing Concentration (25 credit hours)

- NGR 6207 Health Management of Adults and Older Adults I **Credit Hours: 3**
- NGR 6207L Health Management of Adults and Older Adults I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6244 Health Management of Adults and Older Adults II **Credit Hours: 3**
- NGR 6244L Health Management of Adults and Older Adults II Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6301 Primary Care of Children and Adolescents I **Credit Hours: 3**
- NGR 6301L Primary Care of Children and Adolescents I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6342 Reproductive Health for the Young to Middle Aged Adult **Credit Hours: 1**
- NGR 6234 Reproductive Health for the Middle Aged to Older Adult **Credit Hours: 1**
- NGR 6613 Health Management of Families: Special Topics **Credit Hours: 3**
- NGR 6613L Health Management of Families: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)

Nursing Education Concentration (16 credit hours)

- NGR 6713 Foundations of Nursing Education **Credit Hours: 3**
- NGR 6710 Teaching Strategies in Nursing Education **Credit Hours: 3**
- NGR 6718 Evaluation Strategies for Nursing Education **Credit Hours: 3**
- NGR 6947 Clinical Education/Clinical Practice Practicum in Nursing Education **Credit Hours: 2** 120 Practicum Hours
- NGR 6940 Classroom/Online Teaching Practicum **Credit Hours: 2** 120 Practicum Hours
- NGR 6719 Clinical Case Studies in Nursing Education **Credit Hours: 3**
- Cognate **Credit(s): 3**

Pediatric Health Nursing Concentration (18 credit hours)

- NGR 6301 Primary Care of Children and Adolescents I **Credit Hours: 3**
- NGR 6301L Primary Care of Children and Adolescents I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6302 Primary Care of Children and Adolescents II **Credit Hours: 3**
- NGR 6302L Primary Care of Children and Adolescents II Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6339 Primary Care of Children and Adolescents: Special Topics **Credit Hours: 3**
- NGR 6339L Primary Care of Children and Adolescents: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)



Psychiatric/Mental Health Concentration (26 credit hours)

- NGR 6240 Adult Health for Specialty Care Nursing **Credit Hours: 3**
- NGR 6500 Theoretical Foundations for Advanced Psychiatric Nursing **Credit Hours: 3**
- NGR 6501 Psychopathology for Advanced Psychiatric Nursing **Credit Hours: 3**
- NGR 6502 Treatment Modalities for Advanced Psychiatric Nursing **Credit Hours: 3**
- NGR 6500L Psychiatric APN Practicum: Psychiatric Care Outpatient **Credit Hours: 1-6**
- NGR 6501L Psychiatric APN Practicum: Psychiatric Care in the Inpatient Setting **Credit Hours: 1-4**
- NGR 6538 Psychopharmacology **Credit Hours: 3**
- NGR 6700C Advanced Practice Nurse Transitions **Credit Hours: 5**

Comprehensive Exam

Prior to clearance for the degree, candidates must perform satisfactorily on a comprehensive examination. Students must be 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.

Comprehensive Exam for Nurse Practitioner Concentrations

Comprehensive exams are specific to each concentration and all students must pass their comprehensive exam in no more than three attempts to fulfil the MS degree requirements. For students who do not meet the three-attempt threshold, an additional comprehensive evaluation to determine student competency in the discipline will be applied.

Comprehensive Exam for Nursing Education Concentration

The comprehensive exam consists of three parts: a written take-home examination, a portfolio, and a self-evaluation based on the NLN Core Competencies found in the Scope of Practice for Academic Nurse Educators, 2012. Students unsuccessful on the written take home exam will be provided a second attempt. If unsuccessful after the retake, an oral exam will be scheduled.

Adherence to Degree/Program Plans

Admitted students are expected to meet with their academic advisor to determine the appropriate course sequence to meet the curriculum requirements. In some concentrations, the concentration director will develop the program plan with the student and forward the program plan to the academic advisor. Once a program plan is determined, students are expected to adhere to this plan unless special permission is obtained. As not all courses are offered each semester, a student who deviates from the program plan understands that delay in graduation can be expected. Priority is given to students who maintain initial degree plans.

Clinical and/or site placements are based on preceptor and/or site availability. While every effort is made to assign students to preceptor/clinical sites near their residence, it is not always possible, and thus, students will need to be flexible. Students may find it useful to meet with the concentration director to understand speciality course focus and/or clinical course demands and plan accordingly.

Concurrent Degree

Also available as a Concurrent Degree



Nursing (RN to MSN), M.S.N.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

- Adult-Gerontology Acute Care Nursing
- Adult-Gerontology Primary Care Nursing
- Adult-Gerontology Primary Care / Occupational Health Nursing
- Family Health Nursing
- Nursing Education
- Pediatric Health Nursing
- Psychiatric-Mental Health Nursing

Also offered as a Concurrent Degree

Contact Information

College: Nursing

Contact Information: <http://www.grad.usf.edu/majors>

The major in Nursing leading to a Master of Science in Nursing (M.S.N.) degree prepares its graduates for careers as nurse practitioners and nurse educators. Students choose from a variety of nursing specialty options in advanced practice roles and enroll in a prescribed set of core courses central to all specialty options as well as courses specific to their concentration. Successful completion of the master's practitioners program qualifies students to take appropriate national certification examinations and apply for licensure as an APRN in Florida and other states. Nurse Educator graduates are eligible for national certification from the National League of Nursing, and the American Association of the Colleges of Nursing.

Master's Program Goals

The Master's Program prepares graduates:

- for advanced practice with diverse populations at the individual, family and community level
- to use patient-care and communication technologies to enhance and coordinate the delivery of high quality, culturally appropriate care
- to translate research outcomes, resolve problems, and disseminate results in the educational and clinical practice settings
- to utilize organizational and systems leadership skills in the promotion of culturally responsive, high quality and safe patient care
- to analyze and intervene at the system level through the policy development process
- to understand health professions' scope of practice employing collaborative strategies to design, coordinate and evaluate care
- to develop a more extensive and in-depth understanding of current and evolving practice issues, interprofessional and collaborative practice models, innovative health care strategies, nursing, and the related sciences; and in turn how to integrate this knowledge into education and practice.
- to critique, advocate, and integrate the knowledge created by researchers, translationalists, and theoretical scholars
- to use data from technology systems to evaluate and enhance health care delivery.

Major Research Areas

Nursing, Health, Healthcare, Practice, Clinical Prevention, Health Assessment, Health Management, Acute Care, Nursing Education



Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below. Certain concentrations are highly competitive. Admission criteria include:

- Bachelor's in Nursing or RN with Bachelors in relevant field.
- Current unencumbered license as a registered nurse and/or an advanced practice nurse in the United States upon matriculation. Current license as a registered nurse and/or an advanced practice nurse in the State of Florida before the first clinical course.
- Three letters of recommendation, indicating potential for graduate study, from persons who can attest to the applicant's academic ability, clinical competence, and commitment. Optimally, these letters will be from a healthcare provider (such as an APRN, PA or MD), nursing professors, and clinical supervisors.
- Current resume or curriculum vita.
- A personal interview with a designated faculty member is required
- Applicants to the M.S.N. program are required to complete both a NursingCAS application and a USF Graduate Studies Application.
- It is recommended, but not required, to submit competitive GRE scores.
- Applicants interested in the Adult Gerontology Acute Care concentration must have at least one year of ICU /acute care work experience prior to matriculation to meet professional practice requirement for clinical placements.
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 - NUR 4169C - Evidence Based Practice for Baccalaureate Nurses Credit(s): 3
 - NUR 4634C - Population Health Credit(s): 3
 - NUR 4828C - Foundations of Nursing Leadership & Management Credit(s): 3
 - NUR 4895 - Educational Role of Nurse in Healthcare Credit(s): 3

Note - to view information on the Undergraduate Courses, refer to the Undergraduate Catalog.

Please note before starting the application process, international students may have additional restrictions stipulating course delivery format for their program of choice. Please refer to USF World for further information on these requirements.

Curriculum Requirements

Total Minimum Credit Hours - 40

- **Core - 24 credit hours minimum**
- **Additional Required Course - 3 Credit Hours***
- **Concentration - 16 Credit hours minimum**

*not required for Nursing Education Concentration

Students must complete the Major core requirements and then the requirements as specified for the Concentration. Concentration hours vary, so in some instances students will graduate with more than the 42 hour minimum for the major. Minimum hours required for the major and selected concentration must be satisfied for degree completion.

Sequencing of courses is particularly important and core requirement courses below must be successfully completed prior to beginning clinical coursework. All foundational level clinical courses in the advanced practice nursing tracks must be completed in sequence per an approved program plan unless otherwise approved by faculty.

Core Requirements (24 Credit Hours)

- NGR 6803 Research and Evidence-Based Practice **Credit Hours: 3**



- NGR 6638 Health Promotion, Clinical Prevention, and Population Health for Advanced Practice Nurses **Credit Hours: 3**
- NGR 6733 Organizational and Systems Leadership and Quality Improvement for Advanced Practice Nurses **Credit Hours: 3**
- NGR 6893 Systems and Populations in Healthcare **Credit Hours: 3**
- NGR 6002C Advanced Health Assessment Across the Lifespan **Credit Hours: 4**
- NGR 6152 Advanced Physiology and Pathophysiology **Credit Hours: 4**
- NGR 6172 Pharmacotherapeutics for Advanced Practice Nursing **Credit Hours: 4**

Note: Courses with a "C" in the course number designate a combined didactic and clinical format

Additional Required Courses (3 Credit Hours)

- NGR 6064C Advanced Diagnostics & Procedures **Credit Hours: 3** *this course is not required for the Nursing Education Concentration

**M.S.N. students must have between 540 to 720 post-baccalaureate supervised clinical hours at the time of graduation, depending on the concentration. All clinical placements will be in Florida and may be anywhere in the state.

Concentrations

Students can select from the following Concentrations:

Acute-Gerontology Acute Care Nursing Concentration (21 credit hours)

- NGR 6210 Clinical Management of the Acutely III Adult **Credit Hours: 4**
- NGR 6210L Clinical Management of the Acutely III Adult Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6232 Clinical Management of Acute and Critically III Adults and Older Adults **Credit Hours: 4**
- NGR 6232L Clinical Management of Acute and Critically III Adults and Older Adults Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6211 Acute Care of Adults and Older Adults: Special Topics **Credit Hours: 4**
- NGR 6211L Acute Care of Adults and Older Adults: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)

Adult-Gerontology Primary Care /Occupational Health (35 Credit Hours)

- NGR 6207 Health Management of Adults and Older Adults I **Credit Hours: 3**
- NGR 6207L Health Management of Adults and Older Adults I Clinical **Credit Hours: 3**
- NGR 6244 Health Management of Adults and Older Adults II **Credit Hours: 3**
- NGR 6244L Health Management of Adults and Older Adults II Clinical **Credit Hours: 3**
- NGR 6291 Health Management of Adults and Older Adults: Special Topics **Credit Hours: 3**
- NGR 6291L Health Management of Adults and Older Adults: Special Topics Clinical **Credit Hours: 3**
- NGR 6650 Occupational Health Nursing I **Credit Hours: 2**
- NGR 6651 Occupational Health Nursing II **Credit Hours: 2**
- PHC 6355 Principles of Occupational Safety **Credit Hours: 3**
- PHC 6364 Industrial Hygiene Aspects of Plant Operations **Credit Hours: 2**
- PHC 6934 Selected Topics in Public Health **Credit Hours: 1-6**
Occupational Health and Safety Foundations (3 Credit Hours)
- PHC 6356 Industrial Hygiene **Credit Hours: 2**
- PHC 6351 Occupational Medicine for Health Professionals **Credit Hours: 3**



Adult-Gerontology Primary Care Nursing Concentration (18 credit hours)

- NGR 6207 Health Management of Adults and Older Adults I **Credit Hours: 3**
- NGR 6207L Health Management of Adults and Older Adults I Clinical **Credit Hours: 3**
- NGR 6244 Health Management of Adults and Older Adults II **Credit Hours: 3**
- NGR 6244L Health Management of Adults and Older Adults II Clinical **Credit Hours: 3**
- NGR 6291 Health Management of Adults and Older Adults: Special Topics **Credit Hours: 3**
- NGR 6291L Health Management of Adults and Older Adults: Special Topics Clinical **Credit Hours: 3**

Family Health Nursing Concentration (25 credit hours)

- NGR 6207 Health Management of Adults and Older Adults I **Credit Hours: 3**
- NGR 6207L Health Management of Adults and Older Adults I Clinical **Credit Hours: 3**
- NGR 6244 Health Management of Adults and Older Adults II **Credit Hours: 3**
- NGR 6244L Health Management of Adults and Older Adults II Clinical **Credit Hours: 3**
- NGR 6301 Primary Care of Children and Adolescents I **Credit Hours: 3**
- NGR 6301L Primary Care of Children and Adolescents I Clinical **Credit Hours: 3**
- NGR 6342 Reproductive Health for the Young to Middle Aged Adult **Credit Hours: 1**
- NGR 6234 Reproductive Health for the Middle Aged to Older Adult **Credit Hours: 1**
- NGR 6613 Health Management of Families: Special Topics **Credit Hours: 3**
- NGR 6613L Health Management of Families: Special Topics Clinical **Credit Hours: 3**

Nursing Education Concentration (16 Credit Hours)

- NGR 6713 Foundations of Nursing Education **Credit Hours: 3**
- NGR 6710 Teaching Strategies in Nursing Education **Credit Hours: 3**
- NGR 6718 Evaluation Strategies for Nursing Education **Credit Hours: 3**
- NGR 6947 Clinical Education/Clinical Practice Practicum in Nursing Education **Credit Hours: 2** 120 Practicum Hours
- NGR 6940 Classroom/Online Teaching Practicum **Credit Hours: 2** 120 Practicum Hours
- NGR 6719 Clinical Case Studies in Nursing Education **Credit Hours: 3**
- Cognate **Credit Hours: 3**

Pediatric Health Nursing Concentration (18 credit hours)

- NGR 6301 Primary Care of Children and Adolescents I **Credit Hours: 3**
- NGR 6301L Primary Care of Children and Adolescents I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6302 Primary Care of Children and Adolescents II **Credit Hours: 3**
- NGR 6302L Primary Care of Children and Adolescents II Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6339 Primary Care of Children and Adolescents: Special Topics **Credit Hours: 3**
- NGR 6339L Primary Care of Children and Adolescents: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)

Psychiatric/Mental Health Concentration (26 credit hours)

- NGR 6240 Adult Health for Specialty Care Nursing **Credit Hours: 3**
- NGR 6500 Theoretical Foundations for Advanced Psychiatric Nursing **Credit Hours: 3**
- NGR 6501 Psychopathology for Advanced Psychiatric Nursing **Credit Hours: 3**



- NGR 6502 Treatment Modalities for Advanced Psychiatric Nursing **Credit Hours: 3**
- NGR 6500L Psychiatric APN Practicum: Psychiatric Care Outpatient **Credit Hours: 1-6**
- NGR 6501L Psychiatric APN Practicum: Psychiatric Care in the Inpatient Setting **Credit Hours: 1-4**
- NGR 6538 Psychopharmacology **Credit Hours: 3**
- NGR 6700C Advanced Practice Nurse Transitions **Credit Hours: 5**

Comprehensive Examination

Prior to clearance for the degree, candidates must perform satisfactorily on a comprehensive examination. Students must be 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.

Comprehensive Exam for Nurse Practitioner Concentrations

Comprehensive exams are specific to each concentration and all students must pass their comprehensive exam in no more than three attempts to fulfil the MS degree requirements. For students who do not meet the three-attempt threshold, an additional comprehensive evaluation to determine student competency in the discipline will be applied.

Comprehensive Exam for Nursing Education Concentration

The comprehensive exam consists of three parts: a written take-home examination, a portfolio, and a self-evaluation based on the NLN Core Competencies found in the Scope of Practice for Academic Nurse Educators, 2012. Students unsuccessful on the written take home exam will be provided a second attempt. If unsuccessful after the retake, an oral exam will be scheduled.

Adherence to Degree/Program Plans

Admitted students are expected to meet with their academic advisor to determine the appropriate course sequence to meet the curriculum requirements. In some concentrations, the concentration director will develop the program plan with the student and forward the program plan to the academic advisor. Once a program plan is determined, students are expected to adhere to this plan unless special permission is obtained. As not all courses are offered each semester, a student who deviates from the program plan understands that delay in graduation can be expected. Priority is given to students who maintain initial degree plans.

Clinical and/or site placements are based on preceptor and/or site availability. While every effort is made to assign students to preceptor/clinical sites near their residence, it is not always possible, and thus, students will need to be flexible. Students may find it useful to meet with the concentration director to understand speciality course focus and/or clinical course demands and plan accordingly.

Concurrent Degree

Also available as a Concurrent Degree



Nursing Science, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Nursing

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. prepares scholars to

- Enact the evolving roles and responsibilities of a nurse scientist;
- Use innovative research approaches to advance nursing science;
- Contribute to team science and interdisciplinary collaborations;
- Conduct original research that informs practice and health policy;
- Contribute to a global, inter-professional or interdisciplinary community of scholars;
- Provide leadership to community, professional, and scientific organizations; and
- Disseminate research findings to professional audiences and identify implications for policy, nursing practice and the profession.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- B.S. in Nursing from an accredited program (for post-baccalaureate program)*
- M.S. in Nursing from an accredited program (for post-masters program)*
- Clinical doctorate from an accredited program (for post-clinical doctorate program)*
- Clear potential for research contributions
- Curriculum Vitae
- Demonstrated commitment to doctoral study and scholarly productivity
- Evidence of potential for leadership in nursing profession
- GRE
- Licensure as a registered nurse if performing clinical work
- Three letters of recommendation
- Written Statement of professional goals including research focus
- Prerequisite NGR 7848 or equivalent prior to full-time enrollment
- Applicants to the Ph.D. program are required to complete both a NursingCAS application and a USF Graduate Studies Application.

**Applicants with degrees in other fields may also be considered*

Curriculum Requirements



There are three points of entry to the Ph.D. in Nursing Science: post-bachelor's (B.S.-Ph.D); post master's (M.S.-Ph.D.), and Clinical Doctorate (DNP-Ph.D.)

For students entering with a baccalaureate degree, the majority of work can be completed in four to five years by full-time students. For students entering with a master's degree, the majority of work can be completed in three to four years by full-time students. Students entering with a clinical doctoral degree can complete the majority of work in two to three years by full-time students. Specific requirements are determined on an individual basis by the student's supervisory committee. NOTE: Students are to meet with curriculum advisor for individual program planning.

Total Minimum Program Hours:

87 credit hours (post- baccalaureate)

57 credit hours (post master's)

45 credit hours (post clinical doctorate)

- **Core – 33 Credit hours**
- **Content area and additional coursework – 30 credit hours***
- **Advanced Directed Research – 3 credit hours ****
- **Cognate – 9 credit hours ****
- **Dissertation – 12 credit hours**

**Post- bachelor's requirement only*

*** Post- bachelor's and post-master's requirement only*

Core Requirements (33 credit hours)

- NGR 7111 Disciplinary Perspectives in Nursing Science **Credit Hours: 3**
- NGR 7125 Model Development for Nursing **Credit Hours: 3**
- NGR 7810 Design, Measurement, and Analysis in Nursing Research I **Credit Hours: 3**
- NGR 7812 Design, Measurement, and Analysis in Nursing Research II **Credit Hours: 3**
- NGR 7813 Design, Measurement, and Analysis in Nursing Research III **Credit Hours: 3**
- NGR 7814 Design, Measurement, and Analysis in Nursing Research IV **Credit Hours: 3**
- NGR 7881 Responsible Conduct of Nursing Research **Credit Hours: 2**
- NGR 7930 Scientific Inquiry Forum **Credit Hours: 1**
Required each semester prior to candidacy (4 credit hours minimum)
- NGR 7837 Innovative Programs in Biobehavioral Research **Credit Hours: 3**
- NGR 7838 Innovative Programs in Symptom Management Research **Credit Hours: 3**
- NGR 7954 Communicating Nursing Science **Credit Hours: 3**

Content Area and Additional Coursework (30 credit hours) *(Post-Bachelor's only)

For students entering with a baccalaureate degree, a minimum of 30 hours of graduate coursework is required in addition to the core Ph.D. requirements. The additional coursework must be a 6000 or 7000 level course and approved by the student's supervising committee. These 30 hours should provide students with the foundational knowledge to conduct their proposed research.



Advanced Directed Research (3 Credit Hours Minimum) ** (Post-Bachelor's and Post-Master's only)

Specialized individual participation in research activity, including but not limited to pilot studies and other investigative activities.

Cognate (9 Credit Hours)** (Post-Bachelor's and Post-Master's Only)

Students select a cognate area to further support the student's area of expertise in nursing and the research problem that will be addressed by the dissertation research. Examples of appropriate areas of study for the cognate might be organizational administration, health policy, physiology, cognitive psychology, organizational psychology, gerontology, epidemiology, biostatistics, informatics, , entrepreneurship, applied anthropology, or educational measurement.

Qualifying Examinations

The qualifying examination is to be completed as soon as all coursework is completed. The purpose of the qualifying examination is to assess the student's level of scholarship and research skills and to determine if the student possesses the critical and analytical skills necessary to undertake the dissertation research. The qualifying examination consists of a written exam covering core and specialty content related to the student's dissertation proposal.

Dissertation (12 Credit Hours)

Students must complete 12 dissertation hours. In the last semester of dissertation hours the student is required to successfully defend their dissertation research.

- NGR 7980 Dissertation: Doctoral **Credit Hours: 2-12**



Nursing, D.N.P.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations

- Adult-Gerontology Acute Care Nursing
- Adult-Gerontology Primary Care Nursing
- Adult-Gerontology Primary Care/Oncology
- Adult-Gerontology Primary Care/Occupational Health
- Family Health Nursing
- Pediatric Health Nursing

Available as a Concurrent Degree

This major shares core requirements with the D.N.P. in Nurse Anesthesia.

Contact Information

College: Nursing

Contact Information: <http://www.grad.usf.edu/majors>

The Nursing major prepares graduates for advanced independent clinical practice. Nursing practice, as defined by the American Association of Colleges of Nursing (AACN [2004]), refers to any nursing intervention that influences health care outcomes for individuals or populations. Objectives for the major are based upon recommendations for essential curriculum elements as identified by the AACN and the National Organization of Nurse Practitioner Faculties (NONPF).

D.N.P. Major Goals:

Prepare graduates:

- for practice at the most advanced level in a focused area of nursing practice
- to use information systems and technology to optimize the delivery of health care
- to apply knowledge of the cultural and socioeconomic dimensions of health to prevent disease and promote health for individuals, families, and populations
- to lead sustainable organizational and health system level changes to improve health care delivery and health outcomes
- to direct and develop new and innovative strategies to address current and evolving practice issues in an increasingly complex health care environment
- to critically appraise, synthesize, apply, and translate the knowledge created by researchers and theoretical scholars to improve health care quality and safety
- to use practice information systems and databases to support and inform decision making, improvement efforts, and the evaluation of health outcomes for individuals, families and populations

Admission Information



Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below. Please note before stating the application process, international students may have additional restrictions stipulating course delivery format for their program of choice. Please refer to USF World for further information on these requirements.

All applicants must have the following:

1. Submission of the following documents:
 - a. Three letters of recommendation, indicating potential for graduate study, from persons who can attest to the applicant's academic ability, clinical competence, and commitment. (Optimally, these letters will be from a nursing faculty or clinical supervisor.)
 - b. Personal statement of goals
 - c. Current resume or curriculum vitae
 - d. Sealed official transcripts from *all institutions of higher education* attended
2. A personal interview with a designated faculty member may also be required.
3. The equivalent bachelors and/or graduate degrees in nursing from a foreign institution.
4. Current unencumbered license as a registered nurse and/or advanced practice nurse in the United States upon matriculation. Current license as a registered nurse and/or advanced practice nurse in the State of Florida, or a compact multi-state license allowing practice in the State of Florida, before the first clinical course.
5. Applicants to the Nursing Major are required to complete both a NursingCAS application and a USF Graduate Studies Application.
6. Applicants interested in to the Adult Gerontology Acute Care concentration are strongly encouraged to must have at least one year of ICU/acute care experience prior to matriculation to meet professional practice requirements for clinical placements.
7. Applicants interested in to the Oncology/Adult Gerontology Primary Care concentration are strongly encouraged to have at least one year of previous and/or current oncology-specific experience prior to matriculation to meet professional practice requirements for clinical placements.

Post-Bachelor's Applicants with a B.S. (in Nursing) applying to the D.N.P. must also have:

1. A bachelor's degree in nursing from a CCNE or ACEN and an accredited institution and satisfying at least one of the following criteria:
 - o "B" average or better in all work attempted while registered as an undergraduate student work for a degree, or:
 - o "B" average or better in all work attempted while registered as an upper division undergraduate student working for a baccalaureate degree.
2. Completion of a 3 credit hour or equivalent length undergraduate level statistics course with a grade of B or better.

Post-Master's Applicants with a M.S. (in Nursing) applying to the D.N.P. must also have:

1. A Master's degree in nursing from a CCNE or ACEN and an accredited institution.
2. Minimum 3.00 GPA at the graduate level
3. Licensure as an Advanced Practice Nurse
4. National certification in area of advanced practice

*It is recommended, but not required, to submit competitive GRE scores.

Curriculum Requirements

Total Minimum Hours: 30 credit hours post masters, 75 credit hours post-bacc



The program follows a standard plan and course sequence for part-time or full-time enrollment. The specific sequence of courses for each admission cycle is determined upon admission to the program and students will be provided their specific program plan upon accepting their offer of admission.

Post-Master's – 30 hours minimum:

- **Shared Core Requirements – 15 Credit Hours**
- **Practice Management - 3 Credit Hours**
- **Practicum - 8 Credit hours**
- **Doctoral Project - 4 Credit hours**

Post-Bachelor's – 75 hours minimum:

- **Shared Core Requirements - 15 Credit Hours**
- **Additional Required Courses – 27 Credit Hours**
- **Concentrations – 18 Credit Hours minimum**
- **Practice Management - 3 Credit Hours**
- **Practicum - 8 Credit hours**
- **Doctoral Project - 4 Credit hours**

Shared Core Requirements (30 Credit Hours Minimum)

- NGR 6673 Epidemiology for Advanced Nursing **Credit Hours: 3**
- NGR 7848 Fundamentals of Statistics for Clinicians **Credit Hours: 3**
- NGR 7874 Informatics and Patient Care Technology **Credit Hours: 3**
- NGR 7766 Health Systems Leadership and Interprofessional Practice **Credit Hours: 3**
- NGR 7892 Health Care Policy and Clinical Prevention for Improving Population Health **Credit Hours: 3**

Practice Management Requirement (3 Credit Hours)

- NGR 7767 Practice Management, Quality Improvement, and Patient Safety **Credit Hours: 3**

Post-Bachelor's:

In addition to the Core and Practice Management Requirements, Post-Bachelor's students (B.S.-D.N.P.) must also complete the following:

- Additional Required Courses



- Concentration

Additional Required Courses (27 credit hours)

Sequencing of courses is particularly important and core requirement courses below must be successfully completed prior to beginning clinical coursework. All foundational level clinical courses in the advanced practice nursing tracks must be completed in sequence per an approved program plan unless otherwise approved by faculty.

- NGR 6002C Advanced Health Assessment Across the Lifespan **Credit Hours: 4**
- NGR 6152 Advanced Physiology and Pathophysiology **Credit Hours: 4**
- NGR 6733 Organizational and Systems Leadership and Quality Improvement for Advanced Practice Nurses **Credit Hours: 3**
- NGR 6803 Research and Evidence-Based Practice **Credit Hours: 3**
- NGR 6064C Advanced Diagnostics & Procedures **Credit Hours: 3**
- NGR 6172 Pharmacotherapeutics for Advanced Practice Nursing **Credit Hours: 4**
- NGR 6638 Health Promotion, Clinical Prevention, and Population Health for Advanced Practice Nurses **Credit Hours: 3**
- NGR 6893 Systems and Populations in Healthcare **Credit Hours: 3**

Concentrations

Students select one of the following concentrations:

Adult-Gerontology Acute Care (21 Credit Hours)

- NGR 6210 Clinical Management of the Acutely III Adult **Credit Hours: 4**
- NGR 6210L Clinical Management of the Acutely III Adult Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6211 Acute Care of Adults and Older Adults: Special Topics **Credit Hours: 4**
- NGR 6211L Acute Care of Adults and Older Adults: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6232 Clinical Management of Acute and Critically III Adults and Older Adults **Credit Hours: 4**
- NGR 6232L Clinical Management of Acute and Critically III Adults and Older Adults Clinical **Credit Hours: 3** (180 Clinical Hours)

Adult-Gerontology Primary Care Nursing (18 Credit Hours)

- NGR 6207 Health Management of Adults and Older Adults I **Credit Hours: 3**
- NGR 6207L Health Management of Adults and Older Adults I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6244 Health Management of Adults and Older Adults II **Credit Hours: 3**
- NGR 6244L Health Management of Adults and Older Adults II Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6291 Health Management of Adults and Older Adults: Special Topics **Credit Hours: 3**
- NGR 6291L Health Management of Adults and Older Adults: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)

Adult-Gerontology Primary Care /Occupational Health (35 Credit Hours)

- NGR 6650 Occupational Health Nursing I **Credit Hours: 2**
- NGR 6651 Occupational Health Nursing II **Credit Hours: 2**
- PHC 6355 Principles of Occupational Safety **Credit Hours: 3**
- PHC 6364 Industrial Hygiene Aspects of Plant Operations **Credit Hours: 2**
- PHC 6356 Industrial Hygiene **Credit Hours: 2**



- PHC 6351 Occupational Medicine for Health Professionals **Credit Hours: 3**
- PHC 6934 Selected Topics in Public Health **Credit Hours: 1-6**
Occupational Health and Safety Foundations (3 credit hours) (proposed PHC 6931)

Adult-Gerontology Primary Care / Oncology (35 Credit Hours)

- NGR 6207 Health Management of Adults and Older Adults I **Credit Hours: 3**
- NGR 6207L Health Management of Adults and Older Adults I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6220 Pathobiology of Neoplasia **Credit Hours: 3**
- NGR 6221 Oncology Nursing Concepts **Credit Hours: 3**
- NGR 6222L Practicum I in Advanced Oncology Nursing Practice **Credit Hours: 3**
- NGR 6223L Practicum II in Advanced Oncology Nursing **Credit Hours: 3**
- NGR 6244 Health Management of Adults and Older Adults II **Credit Hours: 3**
- NGR 6224L Practicum III in Advanced Oncology Nursing Practice **Credit Hours: 3**
- NGR 6225 Oncology Special Topics **Credit Hours: 2**
- NGR 6244L Health Management of Adults and Older Adults II Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6291 Health Management of Adults and Older Adults: Special Topics **Credit Hours: 3**
- NGR 6291L Health Management of Adults and Older Adults: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)

Family Health (25 Credit Hours)

- NGR 6207 Health Management of Adults and Older Adults I **Credit Hours: 3**
- NGR 6207L Health Management of Adults and Older Adults I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6234 Reproductive Health for the Middle Aged to Older Adult **Credit Hours: 1**
- NGR 6244 Health Management of Adults and Older Adults II **Credit Hours: 3**
- NGR 6244L Health Management of Adults and Older Adults II Clinical **Credit Hours: 3**
(180 Clinical Hours)
- NGR 6301 Primary Care of Children and Adolescents I **Credit Hours: 3**
- NGR 6301L Primary Care of Children and Adolescents I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6342 Reproductive Health for the Young to Middle Aged Adult **Credit Hours: 1**
- NGR 6613 Health Management of Families: Special Topics **Credit Hours: 3**
- NGR 6613L Health Management of Families: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)

Pediatric Health (18 Credit Hours)

- NGR 6301 Primary Care of Children and Adolescents I **Credit Hours: 3**
- NGR 6301L Primary Care of Children and Adolescents I Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6302 Primary Care of Children and Adolescents II **Credit Hours: 3**
- NGR 6302L Primary Care of Children and Adolescents II Clinical **Credit Hours: 3** (180 Clinical Hours)
- NGR 6339 Primary Care of Children and Adolescents: Special Topics **Credit Hours: 3**
- NGR 6339L Primary Care of Children and Adolescents: Special Topics Clinical **Credit Hours: 3** (180 Clinical Hours)

Comprehensive Qualifying Exam

All D.N.P. students must satisfactorily complete a proposal, a scholarly report/manuscript, a poster presentation, and a portfolio. In addition, post bachelor's (B.S.-D.N.P.) students must take a comprehensive exam in their Special Topics course to prepare them for their NP licensure exam at the state level. Post Master's (M.S.-D.N.P.) students take their state NP licensure exam prior to matriculation.



Practicum (8 Credit Hours Minimum)

- NGR 7945 Doctor of Nursing Practice Practicum **Credit Hours: 1-7** (8 credits for this program) *

*D.N.P. students must have a minimum of 1,000 post-baccalaureate supervised clinical hours at the time of graduation. Project and Practicum must be completed in Florida.

Doctoral Project (4 Credit Hours Minimum)

- NGR 7974 Doctor of Nursing Practice Project **Credit Hours: 1-3** 4 Credits for this program

Dissertation

This is a clinical degree that does not require a dissertation.

Concurrent Degree

Also available as a Concurrent Degree



College of Pharmacy

Taneja College of Pharmacy

RX - Programs

University of South Florida
Taneja College of Pharmacy
12901 Bruce B. Downs Blvd.
Tampa, FL 33612

Web address: <https://health.usf.edu/pharmacy>

Phone: 813-974-5699

Fax: 813-905-9890

College Dean: Kevin Sneed, Pharm.D.

Associate Dean for Academic Affairs: Amy H. Schwartz, Pharm.D.

Associate Dean, Graduate Programs: Shyam Mohapatra, Ph.D., M.B.A.

Accreditation:

The Taneja College of Pharmacy (COP) is accredited by the Accreditation Council for Pharmacy Education (ACPE). Additional information can be found on the USF and COP websites.

Mission Statement:

The USF Taneja College of Pharmacy's mission is to Revolutionize Health by:

- Innovation of patient centered healthcare through education, research, and service
- Empowerment of students, professionals, and patients as catalysts for change at all levels of health.

Vision

By 2019, USF Taneja College of Pharmacy will achieve interprofessional excellence in:

- Geriatrics
- Personalized Medicine
- Informatics
- Leadership

Values

- Innovation
- Leadership
- Diversity



- Interprofessional collaboration
- Interdisciplinary research
- Evidence-based applications
- Teamwork
- Life-long learning

Research Facilities

The Taneja College of Pharmacy has established alliances and affiliations with a number of Centers and Institutes at USF in its efforts to:

1. Provide research and educational opportunities (faculty and students);
2. Foster and promote interdisciplinary research;
3. Advance research, innovation and academic entrepreneurship in emerging technologies.

The Centers with which the COP has established affiliations are as follows:

- Byrd Alzheimer's Institute
- Center for Advanced Medical Learning and Simulation (CAMLs)
- The Florida Center of Excellence for Drug Discovery and Innovation (CDDI)
- USF Nanomedicine Research Center

Major Research Areas

Faculty research areas are accessible through the following web link:

<http://health.usf.edu/pharmacy/research/index.htm>

College Information:

The USF Taneja College of Pharmacy (COP) was established in 2010 to offer the Doctor of Pharmacy (Pharm.D.) degree. The COP mission aligns with the USF Mission by:

1. providing a competitive professional program in pharmacy;
2. producing knowledge, promoting intellectual development, and certifying student success in a global environment; and
3. providing interdisciplinary education, research, and service through health-related disciplines.

The Doctor of Pharmacy didactic and experiential curriculum encompasses interprofessional, patient-centered pharmaceutical care, translational research opportunities, and community-focused service learning in an effort to produce competent pharmacy practitioners. The COP plans to maximize the advantages associated with being part of Florida's leading metropolitan research university through collaborations with other disciplines and programs across the USF campus.

COP founded its Office of Graduate Programs in 2013. The vision for graduate education at COP included developing cutting-edge research training and education including both didactic (on-line and in-class) in several areas of Pharmacy, creating a diverse learning environment for students and faculty and creating advanced learning opportunities using the emerging technologies.

Consistent with USF's mission, the strategic goals of OGP include:

1. to enhance domestic and international recruitment, enrollment, and retention of graduate students that reflects diversity,
2. to strive to enhance the academic experience of and the quality of life for graduate students,
3. to pursue research funding and conduct and publish research that leads to opportunities for graduate student success,



4. to partner with the other USF Colleges and SUS institutions to develop creative initiatives that promote graduate student research, and
5. to serve as a leader in promoting interdisciplinary graduate programs.

A Master of Science in Pharmaceutical Nanotechnology was approved and OGP plans to develop additional initiatives for Graduate Certificates and a Ph.D. degree program in addition to concurrent degree programs at the COP.



Dean's Office

Major



Pharmaceutical Nanotechnology, M.S.

Priority Admission Application Deadlines: <https://www.grad.usf.edu/majors>

Concentrations:

Biomedical Engineering
Drug Discovery, Delivery, Development & Manufacturing

Also offered as a Concurrent Degree

Contact Information

College: Pharmacy

Contact Information: <https://www.grad.usf.edu/majors>

The Master's of Science (M.S.) in Pharmaceutical Nanotechnology is designed to train students in the skills they will need to understand the burgeoning technological advances in science at the nanoscale and how new nanomaterials and processes can be applied to drug delivery, diagnosis, treatment monitoring, tissue regeneration, personalized medicine and more. This major aims to bridge the gap between nanotechnology and medicine, providing students with advanced knowledge, skills and practical experience within the principles, technology and applications within this exciting and innovative area.

Major Research Areas:

Nano, Nanotechnology, Nano Pharmacy, Nano Pharmaceutics, Nano Pharmaceutical

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Bachelor's degree preferably in the biomedical, biological, chemical sciences or engineering
- GRE, MCAT, PCAT, or DAT standardized test scores. May be waived if the overall undergraduate GPA is 3.80 or higher.
- Minimum of two (2) letters of recommendation (preferably from previous professors or employers within the field of science; – all must be fairly recent – within the last five years of coursework or employment).
- A resume
- Professional Statement
- Interview (Optional, at program's discretion)
- A course-by-course evaluation from a foreign transcript evaluation
- Final determination for admission will be made by Graduate Director based on GPA, GRE, MCAT, PCAT or DAT scores, letters of recommendations, resume and personal statement combined.

Curriculum Requirements

Total Minimum Hours – 32 credit hours

- **Core Requirements - 11 credit hours**
- **Concentration/Track – 13 credit hours minimum**



- **Capstone (3 hours) or Thesis (8 hours)**

Core Requirements (11 Credit Hours)

- PHA 6146 Introduction to Nanotechnology **Credit Hours: 3**
- PHA 6119 Micro-/Nanoscale Drug Delivery Systems **Credit Hours: 3**
- PHA 6118 Nanomaterials, BioMEMS, and Nanodevices in Medicine **Credit Hours: 3**
- PHA 6797 Scientific Writing and Communication **Credit Hours: 1**
- PHA 6277 Ethics in Pharmaceutical Practice and Research **Credit Hours: 1**

Students select from the following Tracks or Concentrations:

General Track (18 Credit Hours)

- Electives 18
- Plus the Capstone requirement

Entrepreneurship Track (18 Credit Hours)

The one-semester internship in a matched industry, institute or center must be approved by the Associate Dean of Graduate Programs. The Internship will culminate in a final project, which will be presented at the end of the Capstone course. Students must receive an evaluation of Satisfactory or higher from their internship supervisor to successfully complete the Internship course.

- PHA 6621 Graduate Program Internship in Pharmaceutical Sciences **Credit Hours: 6**
- PHA 6225 Invention, Innovation and Entrepreneurship **Credit Hours: 3**
- Electives 9
- Plus the Capstone requirement

Research Track (13 Credit Hours)

- Electives - 13
- Plus the thesis requirement

Biomedical Engineering Concentration (18 Credit Hours)

- GMS 6440 Basic Medical Physiology **Credit Hours: 3**
or
- BME 6410 Engineering Physiology **Credit Hours: 3**
- GMS 6605 Basic Medical Anatomy **Credit Hours: 3**
- PHC 6051 Biostatistics II **Credit Hours: 3**
- BME 6000 Biomedical Engineering **Credit Hours: 3**
- BME 6931 Selected Topics in Biomedical Engineering **Credit Hours: 1-3 (3 credits for this program)**
- Electives 3
- Plus the Capstone requirement



Drug Discovery, Delivery, Development & Manufacturing Concentration (13 Credit Hours)

- PHA 6124 Principles of Pharmacokinetics and Pharmacodynamics I **Credit Hours: 3**
- PHA 6147 Nanotechnology and Risk Management **Credit Hours: 3**
- PHA 6185 Drug Discovery and Frontier **Credit Hours: 3**
- Electives 4
- Plus the thesis requirement

Approved Electives

- PHA 6124 Principles of Pharmacokinetics and Pharmacodynamics I **Credit Hours: 3**
 - PHA 6147 Nanotechnology and Risk Management **Credit Hours: 3**
 - PHA 6148 Nanoformulations and Nanopharmaceuticals **Credit Hours: 3**
 - PHA 6185 Drug Discovery and Frontier **Credit Hours: 3**
 - PHA 6222 Pharmacy Practice Management **Credit Hours: 3**
 - PHA 6225 Invention, Innovation and Entrepreneurship **Credit Hours: 3**
 - PHA 6245 Pharmaceutical Informatics **Credit Hours: 3**
 - PHA 6449 Pharmacogenomics--Current and Future Prospects **Credit Hours: 3**
 - PHA 6618 Principles of Geriatric Medicine **Credit Hours: 3**
 - PHA 6622 Advanced Geriatric Pharmacy Care **Credit Hours: 3**
 - PHA 6756 - Bioengineering and Nano-biomedical Prospects **Credit(s): 3**
 - PHA 7930 Special Topics in Pharmacy **Credit Hours: 1-6 (1-3 credits in this program)**
 - GMS 6010 Personalized Medicine **Credit Hours: 3**
 - GMS 6183 Clinical Research Methods **Credit Hours: 3**
 - GMS 6201 Basic Medical Biochemistry **Credit Hours: 3**
 - GMS 6440 Basic Medical Physiology **Credit Hours: 3**
 - GMS 6505 Basic Medical Pharmacology **Credit Hours: 3**
 - GMS 6605 Basic Medical Anatomy **Credit Hours: 3**
 - PHA 6336 Tissue Engineering and Regenerative Medicine **Credit Hours: 3**
 - PHC 6319 Modern Human Diseases, Diagnosis, and Treatment **Credit Hours: 3**
- *Other graduate courses may be approved by the Program Director to serve as electives.

Capstone (3 Credit Hours)

As part of the Capstone course, students will also submit and present an e-portfolio outlining their understanding of Pharmaceutical Nanotechnology as a whole with artifacts from previous courses that demonstrate their learning throughout the program. Students must successfully complete PHA 6533, including submission and presentation of e-Portfolio.

- PHA 6952 Graduate Program Capstone in Pharmacy **Credit Hours: 3**

Thesis (8 Credit Hours Minimum)

Students will conduct original research in a lab approved by the Associate Dean of Graduate Programs and submit a final Committee-Approved Thesis, including oral defense, following guidelines from the Office of Graduate Studies. Students must submit a final Committee-Approved Thesis, including oral defense, following ETD guidelines from the Office of Graduate Studies (<http://www.grad.usf.edu/ETD-res-main.php>).



- PHA 6971 Master's Thesis **Credit Hours: 1 (8 credits for this program)** (to be taken over the final three semesters in a 3-3-2 credit hour sequence unless otherwise approved by the Program Director)

Comprehensive Exam

For non-thesis students, successful completion and presentation of the e-Portfolio in the Capstone course will be used in lieu of a comprehensive exam. For thesis students, the final Committee-Approved thesis, including defense, will be used in lieu of a comprehensive exam.

Concurrent Degree

Also available as a Concurrent Degree

Graduate Certificate



Nanopharmaceutics Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

The Graduate Certificate in NanoPharmaceutics is designed for students who are interested in Nanotechnology without having to fully commit to the Master's Degree offered in this field through the College of Pharmacy; or as a precursor to admission into the Master's Degree in Pharmaceutical Nanotechnology. This graduate certificate offers students the opportunity to study within technological advances in sciences at the nanoscale and how new nanomaterials and processes can be applied to drug delivery, diagnosis, treatment monitoring, tissue regeneration, personalized medicine and more within this exciting and innovative field of study. This certificate can also provide a nice addition to other engineering, bioengineering, medicine, biomedicine, chemistry, biology or other sciences degree programs.

Location/Delivery

This certificate is offered at USF Tampa and fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Applicants must have an advanced degree from an accredited institution, or a bachelor's degree from an accredited institution and either be currently enrolled in the biomedical sciences (M.D., D.O., Ph.D., Pharm.D. or equivalent, or have extensive clinical experience.

Application Process

To learn about the application process, and to access the application, please review our application process.

In addition, to the application forms please submit:

- Departmental Approval Form (Please print, sign, and submit this form with all other documents to our office).
- Official transcripts
- A resume
- Letter of Interest

GRE and PCAT scores can be used to demonstrate qualitative and quantitative skills.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Three years

Pre-Requisites

None



Curriculum Requirements (16 Credit Hours)

- PHA 6146 Introduction to Nanotechnology **Credit Hours: 3**
- PHA 6119 Micro-/Nanoscale Drug Delivery Systems **Credit Hours: 3**
- PHA 6118 Nanomaterials, BioMEMS, and Nanodevices in Medicine **Credit Hours: 3**
- PHA 6225 Invention, Innovation and Entrepreneurship **Credit Hours: 3**
- PHA 6147 Nanotechnology and Risk Management **Credit Hours: 3**
- PHA 6277 Ethics in Pharmaceutical Practice and Research **Credit Hours: 1**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Pharmacy Entrepreneurship, Leadership & Management Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

Pharmacy Entrepreneurship, Leadership and Management is a necessary tenet for the success of future pharmacists, regardless of their professional environment, but specific to individuals interested in owning and/or operating their own pharmacy. This certificate provides a clear extension and continuation of the cross-disciplinary, integrated approach to learning and teaching undertaken in the PharmD and Master of Pharmacy programs offered at the College of Pharmacy. It is for pharmacists or future pharmacists who wish to develop exceptional entrepreneurial, leadership and management skills relevant to Pharmacy. This program provides students, interns or established pharmacists with an opportunity to build upon their existing study or professions to fast-track the completion of a Graduate Certificate in Entrepreneurship, Leadership and Management in Pharmacy. For registered pharmacists, who wish to update their pharmacy practice knowledge, and current PharmD students, the track consists of two compulsory units of study plus two elective subjects. The coursework that comprises this graduate certificate is designed to augment the students' foundation of knowledge in the field of Entrepreneurship, Leadership and Management in Pharmacy.

Course Location/Delivery

Online, Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

GRE & PCAT scores can be used to demo qualitative & quantitative skills

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Contact program for information.

Requirements of this Certificate (12 Credit Hours)

- PHA 6222 Pharmacy Practice Management **Credit Hours: 3**
- PHA 6225 Invention, Innovation and Entrepreneurship **Credit Hours: 3**

Electives



- GMS 6010 Personalized Medicine **Credit Hours: 3**
- PHA 6449 Pharmacogenomics--Current and Future Prospects **Credit Hours: 3**
- PHA 6146 Introduction to Nanotechnology **Credit Hours: 3**
- PHA 6336 Tissue Engineering and Regenerative Medicine **Credit Hours: 3**
- PHA 7684 Advanced Pharmacy Practice Experience Elective **Credit Hours: 6**
- GMS 6183 Clinical Research Methods **Credit Hours: 3**
- PHA 6797 Scientific Writing and Communication **Credit Hours: 1**
- PHA 6277 Ethics in Pharmaceutical Practice and Research **Credit Hours: 1**

Time Limit

2 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Pharmacy Update & Practice Management Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

There is burgeoning information on advances in pharmaceutical sciences, pharmacy practice and pharmacy management with changing health care emphasis and regulations. It is important that future Pharmacists be able to specifically deal with bureaucrats, healthcare professionals and the general public in implementing personalized medicine. The courses in the graduate certificate are structure to provide a review of the current literature and develop broad technical skills in addition to providing the organizational competencies required for success by graduates in the integrative pharmaceutical sciences. This graduate certificate is designed to complement the educational activities of the College of Pharmacy by expanding training in integrative pharmacy to a diverse array of healthcare professionals who are interested in advancing their understanding of the recent developments in pharmaceutical sciences and their impact on clinical practice and pharmacy management.

Course Location/Delivery

Online, Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Requirements of this Certificate (12 Credit Hours)

- PHA 6119 Micro-/Nanoscale Drug Delivery Systems **Credit Hours: 3**
- PHA 6449 Pharmacogenomics--Current and Future Prospects **Credit Hours: 3**
- PHA 6222 Pharmacy Practice Management **Credit Hours: 3**
- GMS 6183 Clinical Research Methods **Credit Hours: 3**

Time Limit

2 Years

Credit Toward Graduate Degree



The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Pre-Professional Pharmacy Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

This graduate certificate is for post-bachelor pre-professional students, master's level science majors, and other advanced students who have an interest in attaining biomedical science foundations to gain additional perspective into the growing clinical nature of the pharmacy profession. Participants will extend their knowledge in the areas of biochemistry and intermediary metabolism, the physiology of the human body, microbiological and immunological activity, and the principles involved in drug action. Students that complete this graduate certificate shall be well prepared for the basic science coursework that they will encounter during their first year in a doctor of pharmacy curriculum.

Location/Delivery

This certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

- Applicants must hold an earned bachelor's degree from an accredited institution, preferably in any of the biological sciences or chemistry, with a minimum 3.0 GPA.
- PCAT, GRE, and MCAT scores are not required for admission to the certificate program but can be submitted to demonstrate qualitative and quantitative skills. Test scores will be required for admission to the graduate program

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

TwoYears

Pre-Requisites

None

Curriculum Requirements (15 Credit Hours)

At least THREE courses (9 Credits) from the following (or four totaling 12 or all five courses totalling 15 credits):

- GMS 6141 Basic Medical Immunology and Microbiology **Credit Hours: 3**
- GMS 6201 Basic Medical Biochemistry **Credit Hours: 3**
- GMS 6440 Basic Medical Physiology **Credit Hours: 3**
- GMS 6505 Basic Medical Pharmacology **Credit Hours: 3**
- GMS 6605 Basic Medical Anatomy **Credit Hours: 3**



If only three or four of the requirements are taken from the core listed above, you then must take ONE OR TWO (3-6 credits) respectively from the following list only to total 15 credit hours for Graduate Certificate Completion:

- PHA 6146 Introduction to Nanotechnology **Credit Hours: 3**
- PHA 6119 Micro-/Nanoscale Drug Delivery Systems **Credit Hours: 3**
- PHA 6449 Pharmacogenomics--Current and Future Prospects **Credit Hours: 3**
- GMS 6010 Personalized Medicine **Credit Hours: 3**
- GMS 6183 Clinical Research Methods **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Teaching in Pharmacy Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This Teaching In Pharmacy (TIP) Graduate Certificate is an effort to assist in the recruitment, motivation, and preparation of clinical educators who can inspire students to advance the profession of pharmacy. There is a difference between experts in a particular field of study; those who are well versed and able to function in their prospective field versus a teacher of that practiced knowledge. One expertise does not translate into the other field. There is a difference between adaptive experts, whose metacognitive skills allow the transfer of knowledge from one setting to another, and routine experts, whose expertise allows them to function well in standard settings but doesn't serve them well when conditions differ. This graduate certificate in Teaching in Pharmacy will aid PharmD, M.S. and Ph.D. students and current pharmacists seeking additional skills to advance themselves in teaching their expertise with the ability to adapt their knowledge into teaching materials and applications for students' dissemination. This Graduate Certificate will also provide specific instruction into the specialized field of Adult Education and college teaching.

Course Location/Delivery

Online, Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

GRE & PCAT scores can be used to demo qualitative & quantitative skills

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Consult with the department.

Requirements of this Certificate (15 Credit Hours)

- ADE 6385 The Adult Learner **Credit Hours: 3**
- PHA 6797 Scientific Writing and Communication **Credit Hours: 1**
- ADE 6161 Curriculum Construction in Adult Education **Credit Hours: 3**
- PHA 6708 Teaching in Pharmacy **Credit Hours: 3**

Electives

Select 3-5 Crs:



- PHA 6132
- PHA 6198
- PHA 6277 Ethics in Pharmaceutical Practice and Research **Credit Hours: 1**
- GMS 6183 Clinical Research Methods **Credit Hours: 3**

Time Limit

2 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Department of Pharmacy

Major



Pharmacy, Pharm.D.

Priority Admission Application Deadlines: <https://www.grad.usf.edu/majors>

Concentration:

Pharmacy and Health Education

Also offered as a Bachelor's/Master's Pathway

Also offered as a Concurrent Degree

Contact Information

College: College of Pharmacy

Department: Department of Pharmacy

Contact information: <https://www.grad.usf.edu/majors>

The USF College of Pharmacy (COP) curriculum is very similar to that offered by other schools and colleges across the state of Florida and the country. This is purposeful as there are standards that must be upheld by all pharmacy programs to remain in accordance with national accreditation, financial aid and state regulatory requirements. The USF COP Mission, Vision and Goals serve to guide curricular content as well as other COP endeavors. The integration of technology, student engagement in the educational process, and interprofessional activities serve as the foundation for each course. The faculty will utilize a variety of instructional methods to foster student attainment of course objectives.

All students will be enrolled on a full-time basis. Several courses may be taught predominantly on-line, however the majority of courses will include classroom contact. Lectures will be limited so that peer and faculty interactions can be maximized. For many courses, students may be required to listen to lectures on-line, or complete activities and/or assignments in preparation for class. The emphasis of the USF COP is the comprehension and assimilation of knowledge, with subsequent demonstration of competency (skills and abilities).

Accreditation

Accredited by the Accreditation Council for Pharmacy Education (ACPE).

Major Research Areas

<http://health.usf.edu/pharmacy/research/index.htm>

Admission Information

All applications undergo a holistic review process whereby careful consideration is given to all the credentials presented by applicants. By utilizing this process, applicants' academic record along with experiences and attributes are assessed for potential academic and clinical success.

Must meet University Admission and English Proficiency requirements, as well as requirements for the major listed below:

- PharmCAS Application
- At least two letters of recommendation recommendation (it is recommended one letter be from a biological or physical science professor)
- US Citizen or US Permanent Resident
- ≥ 2.75 Overall GPA (preferred)
- Completion of prerequisite coursework



- Official College Transcripts
- PCAT is required. While 65th percentile composite PCAT score is preferred, we will consider applicants with lower scores that may have other strong academic indicators providing evidence of success. PCAT scores older than 3 years will NOT be accepted.
- College Interviews - offered on a rolling basis
- Criminal background check and drug screen

Curriculum Requirements:

Minimum Total Hours: 154 credit hours

- **Core Requirement: 101 credit hours**
- **Concentration (Optional): 5 credit hours**
- **Required Electives: 4 credit hours**
- **Internship/Field Experience: 49 credit hours**

Core Requirements - 101 Credit Hours

- PHA 6114C Drug Delivery Systems I **Credit Hours: 3** (with lab)
- PHA 6115C Drug Delivery Systems II **Credit Hours: 3** (with lab)
- PHA 6124 Principles of Pharmacokinetics and Pharmacodynamics I **Credit Hours: 3**
- PHA 6129 Clinical Pharmacokinetics and Pharmacodynamics **Credit Hours: 3**
- PHA 6130C Translational Pharmacogenomics - Principles and Clinical Applications **Credit Hours: 3**
- PHA 6233C Jurisprudence **Credit Hours: 3**
- PHA 6243 Medical Informatics and Technology **Credit Hours: 2**
- PHA 6261 Healthcare Administration and Economics **Credit Hours: 3**
- PHA 6270 Healthcare and Medication Safety **Credit Hours: 2**
- PHA 6451 Clinical Biochemistry **Credit Hours: 2**
- PHA 6562 Physiologic Basis of Disease **Credit Hours: 4**
- PHA 6575 Introduction to Principles of Drug Action **Credit Hours: 3**
- PHA 6577 Biochemical and Molecular Principles of Drug Action **Credit Hours: 4**
- PHA 6618C Principles of Geriatric Pharmacotherapy **Credit Hours: 3**
- PHA 6740 Grant Writing and Clinical Research **Credit Hours: 2**
- PHA 6755 Medical Microbiology and Immunology **Credit Hours: 2**
- PHA 6760 Non-Prescription and Herbal Therapies **Credit Hours: 3**
- PHA 6782C Pharmacotherapeutics I **Credit Hours: 5**
- PHA 6783C Pharmacotherapeutics II **Credit Hours: 5**
- PHA 6784C Pharmacotherapeutics III **Credit Hours: 5**
- PHA 6787C Pharmacotherapeutics IV **Credit Hours: 5**
- PHA 6792C Drug Information/Literature Evaluation **Credit Hours: 2**
- PHA 6795 Research Methods and Biostatistics **Credit Hours: 3**
- PHA 6804C Pharmaceutical Calculations **Credit Hours: 2**
- PHA 6870C Pharmaceutical Skills I **Credit Hours: 2**
- PHA 6871C Pharmaceutical Skills II **Credit Hours: 3**
- PHA 6872C Pharmaceutical Skills III **Credit Hours: 3**
- PHA 6873C Pharmaceutical Skills IV **Credit Hours: 3**



- PHA 6874C Pharmaceutical Skills V **Credit Hours: 3**
- PHA 6875C Pharmaceutical Skills VI **Credit Hours: 3**
- PHA 6898 Foundations of Public Health **Credit Hours: 3**
- PHA 6915C Pharmacy Longitudinal Research Project **Credit Hours: 1**
- PHA 7928 Professional Forum **Credit Hours: 1**

Concentration Option Requirements

Students have the option of completing the Concentration, and/or electives, as noted below:

Pharmacy and Health Education Concentration (5 Credit Hours Minimum)

Students in the concentration must also take the Academia section for PHA7684 in the Field Experience requirements.

- HSC 6261 Teaching Essentials **Credit Hours: 2**
- HSC 6261L Teaching Essentials Lab **Credit Hours: 1**

Required Student-Selected Course (pick one of the following):

- PHA 6877C Critical Care Pharmacotherapy **Credit Hours: 2**
- PHA 6780C Oncology Pharmacy Practice **Credit Hours: 2**
- PHA 6907 Directed Independent Study **Credit Hours: 2-3 ***
- PHA 6935 Special Topics in Pharmacy **Credit Hours: 1-5 ***
- PHA 6915 - Pharmacy Longitudinal Research Project **Credit(s): 4 ***
- PHA 6707C Developing the Next Generation of Pharmacy Faculty **Credit Hours: 3**
or other graduate course approved by the concentration coordinator

Electives (4 Credit Hours Minimum)

Students complete at least 4 hours that must be taken from didactic courses, approved by the Curriculum Committee.

- PHA 6780C Oncology Pharmacy Practice **Credit Hours: 2 ***
- PHA 6877C Critical Care Pharmacotherapy **Credit Hours: 2 ***
- PHA 6916 Directed Independent Research **Credit Hours: 3 (2 credits for this program) ***
- PHA 6177C Advanced Compounding and Industrial Pharmacy **Credit Hours: 3**
- PHA 6185 Drug Discovery and Frontier **Credit Hours: 3**
- PHA 6223C Pharmacy Leadership **Credit Hours: 2**
- PHA 6352 Herbal Medicines and Alternative Therapy **Credit Hours: 2**
- PHA 6428C Advanced Topics in Metabolic Syndrome Treatment **Credit Hours: 2**
- PHA 6531 Clinical Toxicology **Credit Hours: 2**
- PHA 6592C Advanced Cardiology Pharmacotherapy **Credit Hours: 2**
- PHA 6598 Current Perspectives in Mental Health **Credit Hours: 2**
- PHA 6602 Pediatric Pharmacotherapy **Credit Hours: 3**
- PHA 6615C Ambulatory Care Pharmacy Practice Elective **Credit Hours: 2**
- PHA 6730C Drugs of Abuse, Addiction, and Law Enforcement **Credit Hours: 2**
- PHA 6771C Clinical Nutrition in Pharmacy Practice **Credit Hours: 2**
- PHA 6786 Travel Medicine **Credit Hours: 3**



- PHA 6907 Directed Independent Study **Credit Hours: 2-3**
- PHA 6879 Death and Dying for Healthcare Professionals **Credit Hours: 2-3**
- PHA 6603C Internal Medicine Elective **Credit Hours: 3**
- PHA 6935 Special Topics in Pharmacy **Credit Hours: 1-5**

Internship/Field Experience

Introductory Pharmacy Practice Experiences (IPPE)(49 Hours Minimum)

- PHA 6940 Introductory Pharmacy Practice Experience I **Credit Hours: 1**
- PHA 6945 IPPE Community Pharmacy Practice I **Credit Hours: 1**
- PHA 6946 IPPE Community Pharmacy Practice II **Credit Hours: 1**
- PHA 6947 IPPE - Institutional Pharmacy Practice I **Credit Hours: 4**
- PHA 7626 Advanced Health-System Pharmacy Practice Experience **Credit Hours: 6**
- PHA 7627 Advanced Community Pharmacy Practice Experience **Credit Hours: 6**
- PHA 7644 Geriatrics Patient Care Pharmacy Practice Experience **Credit Hours: 6**
- PHA 7692 Advanced Ambulatory Pharmacy Practice Experience **Credit Hours: 6**
- PHA 7694 Advanced Adult Medicine Pharmacy Practice Experience **Credit Hours: 6**
- PHA 7684 Advanced Pharmacy Practice Experience Elective **Credit Hours: 6**

Comprehensive Qualifying Exam

Doctoral Candidacy:

In lieu of the comprehensive Qualifying Exam, students must satisfactorily complete the internship and field experience.

Other Requirements

End of Semester (EoS) Exams- At the end of each semester there is a cumulative computer-based exam of key concepts from that semester.

End of Year (EoY) Exam- during the Spring semester for each academic year Pharmaceutical Skills courses will hold a case based Objective Structured Clinical Exam (OSCE).

Co-curricular Activities- Students have requirements beyond the didactic and experiential coursework. These activities complement the coursework to meet accreditation requirements.

Graduation Requirements

A minimum cumulative grade point average (CGPA) of 2.50

- Successful completion of the following within 7 years from the original date of admission:
 - All Didactic
 - Attend all MPJE and NAPLEX reviews
 - All Experiential Education



- Professionalism (proficiency in professionalism, clinical skills, effective judgment and decision making)
- Timely Submission of the application for graduation
 - Graduate application fee due at time of submission

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway

Concurrent Degree

Also available as a Concurrent Degree



College of Public Health

College of Public Health

PH - Programs

University of South Florida
College of Public Health
13201 Bruce B. Downs Blvd MDC56
Tampa, FL 33612

Web address: <http://health.usf.edu/publichealth/index.htm>

Email: coph-grad@health.usf.edu

Phone: 813-974-6505

Fax: 813-974-8121

College Dean: Donna Petersen, Sc.D., M.H.S., CPH

Vice Dean: Tricia Penniecook, M.D., M.P.H.

Associate Dean: Janice Zgibor, Rph, Ph.D., CPH, FACE

Accreditation:

The College is accredited by the Council on Education for Public Health and the concentration of Occupational Exposure Science (Industrial Hygiene) in the M.S.P.H. degree is accredited by the Applied Science Accreditation Commission of ABET, <http://www.abet.org>. The M.H.A. and concurrent M.H.A./M.P.H are accredited by the Commission on Accreditation of Healthcare Management Education. For the concentration in Nutrition and Dietetics in the M.P.H degree the USF Dietetic Internship has been granted Candidacy Status for Accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) <http://www.eatrightpro.org/resources/acend>. The concentration in Genetic Counseling in the M.S.P.H. degree is accredited by the Accreditation Council for Genetic Counseling.

College Requirements

Attendance Policy

All Instructors teaching undergraduate and graduate courses are required to take attendance on the first day of class and to drop students who do not attend the first day of class. Students who experience extenuating circumstances that are beyond their control and who are unable to attend a first class meeting must notify the instructor or the department prior to the first class meeting to request waiver of the first class attendance requirement. Although Instructors are authorized to affect the drop, students are fundamentally responsible for knowing their registration status, and the student must insure that his/her registration status reflects the drop by the end of the drop/add period.

Graduate Assistantships

Graduate assistants may perform research, teaching functions, assist in the production of seminars and workshops, or other work related to their specific disciplines. Graduate assistants are paid a biweekly stipend and may qualify to receive in-state tuition waivers.



Assistantships are awarded on a competitive basis. Students must have a GPA of 3.00 or better in their upper division coursework, must be degree-seeking and enrolled full time.



Dean's Office

Major



Health Administration, M.H.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Concurrent Degree

Contact Information

College: Public Health

Contact Information: <http://www.grad.usf.edu/majors>

The M.H.A. program prepares students for public and private sector leadership positions in health services and related organizations, such as hospitals, health systems, physician group practices, and health insurance plans. Students develop knowledge and skills in contemporary management methods and policy decision making, integrating a population health management approach. The curriculum develops skills in basic business disciplines with application to health services, a clinical and community perspective and professional skills. The M.H.A. program serves early to mid-career professionals, including those seeking transition into and advancement within the health care industry, as well as recent graduates of undergraduate programs.

Accreditation:

The College is accredited by the Council on Education in Public Health. Accredited by the Commission on Accreditation of Healthcare Management Education (CAHME).

Major Research Areas:

Health services management, Healthcare financial management, Health economics, Quantitative methods in health services, Health insurance, Health law, Quality management, Performance improvement, Community health assessment, Organizational theory and behavior applied to health settings, Health information management, Health policy, and Strategic planning and marketing.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below. Meeting these criteria per se shall not be the only basis for admission.

- Public health course prerequisites:
 - Suggested/preferred undergraduate majors: Life sciences, social sciences, business, or health professions. Prerequisite undergraduate courses: Microeconomics or equivalent (prerequisite must be completed prior to enrolling in [PHC 6430 Health Economics I](#)) and Accounting (prerequisite must be completed prior to enrolling in [PHC 6160 Health Care Financial Management](#))
- Work experience: Preferred, but not required.

Curriculum Requirements

Total Minimum Hours: 54 Credit hours

- **Core – 9 Credit hours**
- **Management and Policy – 21 Credit hours**
- **Finance, Economics, and Decision Making Skills – 18 Credit hours**



- **Culminating Requirements – 6 Credit hours**

Core Requirements (9 Credit Hours)

- PHC 6588 History and Systems of Public Health **Credit Hours: 1**
- PHC 6756 Population Assessment: Part 1 **Credit Hours: 5**
- PHC 6757 Population Assessment: Part 2 **Credit Hours: 3**

Management and Policy (21 Credit Hours)

- PHC 6148 Strategic Planning and Health Care Marketing **Credit Hours: 3**
- PHC 6147 Managing Quality in Health Care **Credit Hours: 3**
- PHC 6151 Health Policy and Politics **Credit Hours: 3**
- PHC 6180 Health Services Management **Credit Hours: 3**
- PHC 6181 Organizational Behavior in Health Services **Credit Hours: 3**
- PHC 6420 Health Care Law, Regulation and Ethics **Credit Hours: 3**
- PHC 6435 Comparative Health Insurance Systems **Credit Hours: 3**

Finance, Economics and Decision Making Skills (18 Credit Hours)

- PHC 6160 Health Care Financial Management **Credit Hours: 3**
- PHC 6760 Research Methods in Public Health Programs **Credit Hours: 3**
- PHC 6161 Health Finance Applications **Credit Hours: 3**
- PHC 6191 Quantitative Analysis in Health Services **Credit Hours: 3**
- PHC 6196 Information Systems in Health Care Management **Credit Hours: 3**
- PHC 6430 Health Economics I **Credit Hours: 3**

Comprehensive Exam

The internship report serves in lieu of the final comprehensive exam.

Culminating Requirements (6 Credit Hours)

(The MHA Internship report provides the final comprehensive exam)

- PHC 6941 Master of Health Administration Internship **Credit Hours: 2**
- PHC 6917 Master of Health Administration Internship Report **Credit Hours: 2**
- PHC 6166 Advanced Seminar in Health Care Management **Credit Hours: 2**

Concurrent Degree

Also available as a Concurrent Degree



Public Health, Dr.P.H.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

- Advanced Practice Leadership in Public Health
- Public Health and Clinical Laboratory Science and Practice

Contact Information

College: Public Health

Contact Information: <http://www.grad.usf.edu/majors>

The **Doctor of Public Health (Dr.P.H.)** is a professional, practice-oriented research degree that is granted in recognition of the attainment of a broad set of practice, analytic, and evaluative skills, including demonstrated public health leadership skills. The Dr.P.H. prepares individuals for leadership roles in practice-based settings such as health departments, non-profit organizations, health services, international agencies, and community-based organizations. Accordingly, the emphasis of the Dr.P.H. is placed on fostering advanced expertise in developing, implementing, and evaluating evidence-based public health practice.

The Dr.P.H. degree offers two concentrations: Advanced Practice Leadership in Public Health, and Public Health and Clinical Laboratory Science and Practice. Each of these has an applied curriculum that develops the student's skillset in community engagement, leadership and management, communication and education, and evidence-based public health. Students complete doctoral projects implemented in organizations during the program of study.

Mode of Delivery:

The USF College of Public Health Dr.P.H. degree is completed through a combination of distance-learning and blended courses that include on-campus learning via three one-week Dr.P.H. Institutes. Students are expected to attend an Institute in the first semester of their admission, and then in the subsequent two summer semesters. This combination of delivery formats allows working professionals to broaden their grasp of public health leadership, practice, and research without interrupting their careers.

Accreditation:

The College of Public Health is accredited by the Council on Education in Public Health (CEPH).

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- M.P.H., M.H.A., M.S.P.H., or other relevant Master's degree from an accredited institution with a minimum GPA of 3.00.
- Minimum of three letters of Recommendation public health leadership
- Detailed personal statement of less than five pages that describes why you wish to obtain a Dr.P.H. degree in Public Health. This document should explain the applicant's public health background, current public health practice interests, demonstration of public health leadership, and how the Dr.P.H. is expected to affect the applicant's current practice.
- Two years advanced work experience in public health
- Resume or curriculum vitae
- Applicants must also be fully prepared to attend three Dr.P.H. Institutes on-campus.
- Students seeking acceptance into the Public Health Laboratory Science and Practice concentration must work at a health laboratory. Admission also depends on the availability of a Faculty Advisor who can advise the student in their area of interest. The final decision on admission is made by the faculty of the College.



- Completed USF Office of Graduate Studies application, and completed SOPHAS application, with fees paid for each.

Applicants to the Dr.P.H. degree are initially required to complete a SOPHAS application. Once that application is verified by SOPHAS, we will invite the applicant to submit a shortened USF Office of Graduate Studies application. Applicants must meet the University requirements (see Graduate Admissions) as well as the requirements of the major. However, these criteria are not the only basis for admission.

Pre-Requisites

Students are expected to come into the Dr.P.H. degree program with foundational public health knowledge. Students who have an M.P.H. or M.H.A. degree from a CEPH-accredited institution meet this requirement. Students with other degrees meet this requirement if they have taken the equivalent of the M.P.H. core coursework at a CEPH-accredited institution, or if they take the courses at USF listed below.

Pre-Requisite Public Health Core Courses - 9 credit hours

PHC 6588 History and Systems of Public Health

PHC 6756 Population Assessment I

PHC 6757 Population Assessment II

Financial Aid

Students seeking financial aid should contact the USF financial aid office for federal guidelines. Dr.P.H. students are not eligible for a doctoral fellowship in the College of Public Health, as it requires admission to a fully on-campus degree program. Dr.P.H. students are eligible for current student scholarships and awards that are announced each year. Please see the College of Public Health Scholarship and Award webpage.

Curriculum Requirements

Total minimum hours - 43 credits post-master's

- Core Requirements - 13 Credit hours
- Concentration - 12 Credit hours
- Electives - 12 Credit hours
- Culminating Requirements/Doctoral Project - 6 Credit Hours

At least 13 hours have to be completed at the 7000 level. A maximum of 12 hours can be transferred into the major, if the coursework was completed post-masters.

Core Requirements (13 Credit Hours)

- PHC 7982 Introduction to Doctoral Training in Public Health **Credit Hours: 1**
- PHC 7103 Transforming Public Health Practice **Credit Hours: 3**
- PHC 7154 Evidence-informed Public Health I **Credit Hours: 3**
- PHC 7149 Practical Applications II: Public Health Leadership **Credit Hours: 1**
- PHC 7934 Writing for Scholarly Publication in Health Science **Credit Hours: 3**
- HSC 7268 Professional Foundations III: Joining the Academy **Credit Hours: 2**

Concentration Requirements (12 Credit Hours)

Students select one of the following concentrations

Advanced Practice Leadership in Public Health (APR) – 12 hours



- PHC 7932 Practical Applications I: Policy, Advocacy and Public Health **Credit Hours: 1**
- PHC 7466 Health Disparities and Cultural Competency in Public Health **Credit Hours: 1**
- PHC 7119 Organizational Behavior in Public Health Systems **Credit Hours: 3**
- PHC 7504 Innovative Education in Public Health **Credit Hours: 1**
- PHC 6411 Introduction to Social Marketing for Public Health **Credit Hours: 3**
- PHC 7156 Evidence-Informed Public Health II **Credit Hours: 3**

Public Health and Clinical Laboratory Science and Practice (LSP) – 12 hours

- PHC 7565 Public Health Laboratory Management I **Credit Hours: 3**
- PHC 7563 - Public Health Laboratory Management II **Credit(s): 3**
- PHC 7564 - Public Health Laboratory Microbiology **Credit(s): 3**
- PHC 7085 Public Health Laboratory Bioinformatics **Credit Hours: 3**

Electives (12 Credit Hours Minimum)

Consult with department for available options.

Culminating Requirements (6 Credit Hours Minimum)

These lead to a field-based doctoral project that influences public health majors, policies, or systems:

- Applied Practice Experiences
- Qualifying Exam

Applied Practice Experiences

All Dr.P.H. students will engage in applied practice experiences to advance their leadership and professional skills in public health. Within their courses, students will select at least five Dr.P.H. foundational and concentration competencies and propose projects in a public health or related organization that will develop these competencies, with advice from a practice-based mentor in the proposed setting. These studies will be jointly planned by the student, the mentor, and the Faculty Advisor, and may consist of one project, or several projects, depending on the scope and competency goals. The final practice experience deliverables must be approved by the Faculty Advisor, verifying that the student has demonstrated achievement of the proposed competencies.

Doctoral Project Committee

The student will be assigned one or more Faculty Advisor(s) at the time of admission. The Faculty Advisor(s) will guide the student through the program of study in the initial stages. Within the second year of the major, the student should establish a doctoral project committee. The doctoral project committee will consist of a minimum of one Faculty Chair and one Faculty Member (or two Faculty co-Chairs) from the faculty of the College of Public Health, as well as an external public health professional or practitioner who is a mentor to the student.

Qualifying Exam

When the majority of the student's coursework is satisfactorily completed, the student must pass a qualifying examination. The student is required to submit a concept paper describing the proposed doctoral project, followed by an oral examination that relates the content, approach, and deliverables of the project to the Dr.P.H. curriculum domains in the student's concentration. The examination will be



administered and evaluated by the student's doctoral project committee. The student must enroll in at least two credits in the semester the exam is completed.

Doctoral Project

PHC 7919 Public Health Doctoral Project (6 Credit Hours)

After successfully completing the qualifying examination, the student must complete a field-based doctoral project that is designed to influence programs, policies, or systems applicable to public health practice. The doctoral project must include a minimum of three high-quality, evidence-based deliverables, with at least one written product. The doctoral project must also demonstrate synthesis of foundational and concentration competencies across all Dr.P.H. curriculum domains in the student's concentration.

To complete the doctoral project, the student will be required to enroll in a minimum of six credits of PHC 7919: Public Health Doctoral Project. The final doctoral project deliverables must be approved by the doctoral project committee prior to graduation, and the student must be enrolled in a minimum of two credits in the semester the doctoral project is completed and approved.

Time to Degree

Students may be able to complete the Dr.P.H. degree program in a minimum of three years, with two years for the coursework and one year for the culminating experiences. Refer to USF Degree Requirements for time to degree limits.



Public Health, M.P.H.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

- Applied Biostatistics
- Behavioral Health
- Epidemiology and Global Communicable Disease
- Epidemiology and Global Health
- Epidemiology and Maternal and Child Health
- Environmental and Occupational Health
- Epidemiology
- Global Communicable Disease
- Global Disaster Management, Humanitarian Relief and Homeland Security
- Global Health Practice
- Health Care Organizations and Management
- Health Policies and Programs
- Health, Safety and Environment
- Infection Control
- Maternal and Child Health
- Nutrition and Dietetics
- Public Health Education
- Public Health Practice Program
- Social Marketing

Also offered as a Bachelor's/Master's Pathway

Also offered as a Concurrent Degree

Contact Information

College: Public Health

Contact Information: <http://www.grad.usf.edu/majors>

Accreditation:

The College is accredited by the Council on Education in Public Health. For the Concentration in Nutrition and Dietetics in the M.P.H degree the USF Dietetic Internship has been granted Candidacy Status for Accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) <http://www.eatrightpro.org/resources/acend>.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major as listed below. Meeting of these criteria per se shall not be the only basis for admission.



- Complete both a SOPHAS application and a USF Graduate Studies Application and pay the applicable fee for each (applicants will receive a request for the \$30 fee once the SOPHAS application enters the USF application system)
- Transcripts
- Resume or curriculum vitae
- At least two formal Letters of Recommendation

Curriculum Requirements

Total Minimum Hours: 42 credit hours minimum

- **Core - 12 credit hours**
- **Additional Required Courses - 6 credit hours**
- **Concentration - 9 credit hours minimum (varies with each concentration)**
- **Electives - 9 credit hours minimum (varies with each concentration)**
- **Comprehensive Exam**

Students must complete the Major core requirements and then the requirements as specified for the Concentration. Concentration hour requirements vary, so in some instances, students will graduate with more than the 42-hour minimum required for the major. The minimum hours required for the major and concentration must be satisfied for degree completion.

Core Courses (12 Credit Hours)

- PHC 6588 History and Systems of Public Health **Credit Hours: 1**
- PHC 6756 Population Assessment: Part 1 **Credit Hours: 5**
- PHC 6757 Population Assessment: Part 2 **Credit Hours: 3**
- PHC 6145 Translation to Public Health Practice **Credit Hours: 3**

Additional Required Courses (6 Credit Hours)

- PHC 6949 Applied Practice Experiences **Credit Hours: 3**
- PHC 6943 Integrated Learning Experience **Credit Hours: 3**

Concentration Requirements (9 credit hours minimum)(varies with each concentration)

Students select from one of the following concentrations:

Applied Biostatistics (12 Concentration Credit Hours)

- PHC 6053 Categorical Data Analysis **Credit Hours: 3**
- PHC 6051 Biostatistics II **Credit Hours: 3**
- HSC 6055 Survival Analysis **Credit Hours: 3**
- PHC 6020 Clinical Trials: Design, Conduct, and Analysis **Credit Hours: 3**

Behavioral Health (15 Concentration Credit Hours)

- MHS 7740 Survey Course in Planning, Evaluation and Accountability **Credit Hours: 3**
- PHC 6546 Epidemiology of Mental Disorders **Credit Hours: 3**



- PHC 6543 Foundations in Behavioral Health Systems **Credit Hours: 3**
- PHC 6708 Evaluation and Research Methods in Community Health **Credit Hours: 3**
- PHC 6035 Comorbidity of Mental and Physical Disorders **Credit Hours: 3**

Environmental and Occupational Health (12 Concentration Credit Hours)

- PHC 6300 Principles of Environmental Health **Credit Hours: 3**
- PHC 6310 Environmental Occupational Toxicology **Credit Hours: 3**
- PHC 6353 Environmental and Occupational Health Risk Assessment **Credit Hours: 3**
- PHC 6423 Environmental and Occupational Health Law **Credit Hours: 3**

Epidemiology (15 Concentration Credit Hours)

- PHC 6051 Biostatistics II **Credit Hours: 3**
- PHC 6010 Epidemiology Methods I **Credit Hours: 3**
- PHC 6011 Epidemiology Methods II **Credit Hours: 3**
- PHC 6701 Computer Applications for Public Health Researchers **Credit Hours: 3**
- PHC 6053 Categorical Data Analysis **Credit Hours: 3**

Epidemiology and Global Communicable Disease (12 Concentration Credit Hours)

- PHC 6516 Tropical Diseases **Credit Hours: 3**
- PHC 6514 Infectious Disease Control in Developing Countries **Credit Hours: 3**
- PHC 6511 Public Health Immunology **Credit Hours: 3**
- PHC 6010 Epidemiology Methods I **Credit Hours: 3**

Epidemiology and Global Health (17 Concentration Credit Hours)

- PHC 6764 Global Health Principles and Contemporary Issues **Credit Hours: 3**
- PHC 6761 Global Health Assessment Strategies **Credit Hours: 3**
- PHC 6106 Global Health Program Development and Administration **Credit Hours: 3**
- PHC 6442 Global Health Applications in the Field **Credit Hours: 3**
- PHC 6945 Supervised Field Experience **Credit Hours: 1-12 (2 credits for this program)**
- PHC 6010 Epidemiology Methods I **Credit Hours: 3**

Epidemiology and Maternal and Child Health (12 Concentration Credit Hours)

- PHC 6530 Issues and Concepts in Maternal and Child Health **Credit Hours: 3**
- PHC 6537 Case Studies in MCH Programs, Policies and Research **Credit Hours: 3**
- PHC 6197 Secondary Data Analysis in Maternal and Child Health **Credit Hours: 3**
- PHC 6010 Epidemiology Methods I **Credit Hours: 3**

Global Communicable Disease (9 Concentration Credit Hours)

- PHC 6516 Tropical Diseases **Credit Hours: 3**
- PHC 6514 Infectious Disease Control in Developing Countries **Credit Hours: 3**



- PHC 6511 Public Health Immunology **Credit Hours: 3**

Global Disaster Management, Humanitarian Relief and Homeland Security (9 Concentration Credit Hours)

- PHC 6183 Overview of United States and International Emergency/Disaster Management **Credit Hours: 3**
- PHC 6230 Foundations of Humanitarian Assistance **Credit Hours: 3**
- PHC 6254 Public Health Implications and Concerns in Homeland Security **Credit Hours: 3**

Global Health Practice (15 Concentration Credit Hours)

- PHC 6764 Global Health Principles and Contemporary Issues **Credit Hours: 3**
- PHC 6761 Global Health Assessment Strategies **Credit Hours: 3**
- PHC 6106 Global Health Program Development and Administration **Credit Hours: 3**
- PHC 6442 Global Health Applications in the Field **Credit Hours: 3**
- PHC 6945 Supervised Field Experience **Credit Hours: 1-12 (3 credits for this program)**

Health Care Organizations and Management (15 Concentration Credit Hours)

- PHC 6151 Health Policy and Politics **Credit Hours: 3**
- PHC 6180 Health Services Management **Credit Hours: 3**
- PHC 6430 Health Economics I **Credit Hours: 3**
- PHC 6160 Health Care Financial Management **Credit Hours: 3**
- PHC 6181 Organizational Behavior in Health Services **Credit Hours: 3**

Health Policies and Programs (15 Concentration Credit Hours)

- PHC 6151 Health Policy and Politics **Credit Hours: 3**
- PHC 6430 Health Economics I **Credit Hours: 3**
- PHC 6760 Research Methods in Public Health Programs **Credit Hours: 3**
- PHC 6421 Public Health Law and Ethics **Credit Hours: 3**
- PHC 6063 Public Health Data, Information and Decision Making **Credit Hours: 3**

Health, Safety and Environment (15 Concentration Credit Hours)

- PHC 6307 Principles of Exposure Assessment & Control **Credit Hours: 3**
- PHC 6300 Principles of Environmental Health **Credit Hours: 3**
- PHC 6325 Environmental Laboratory Principles **Credit Hours: 3**
- PHC 6345 HSE Management & Administration **Credit Hours: 3**
- PHC 6326 Global Issues in Environmental Health **Credit Hours: 3**

Infection Control (15 Concentration Credit Hours)

- PHC 6251 Disease Surveillance and Monitoring **Credit Hours: 3**
- PHC 6562 Microbiology for Healthcare Workers **Credit Hours: 3**
- PHC 6517 Infectious Disease Prevention Strategies **Credit Hours: 3**



- PHC 6314 Infection Control Program Design **Credit Hours: 3**
Pick one of the following two:
- PHC 6186 Public Health Emergencies in Large Populations (PHLEP) **Credit Hours: 3**
- PHC 6002 Infectious Disease Epidemiology **Credit Hours: 3**

Maternal and Child Health (15 Concentration Credit Hours)

- PHC 6530 Issues and Concepts in Maternal and Child Health **Credit Hours: 3**
- PHC 6537 Case Studies in MCH Programs, Policies and Research **Credit Hours: 3**
- PHC 6197 Secondary Data Analysis in Maternal and Child Health **Credit Hours: 3**
- PHC 6505 Program Planning in Community Health **Credit Hours: 3**
- PHC 6708 Evaluation and Research Methods in Community Health **Credit Hours: 3**

Nutrition and Dietetics (15 Concentration Credit Hours)

- DIE 6127 Principles of Leadership and Management of Food and Nutrition **Credit Hours: 2**
- DIE 6248 Advanced Clinical Nutrition **Credit Hours: 3**
- HUN 5265 Methods of Nutritional Assessment **Credit Hours: 1**
- PHC 6521 Public Health Nutrition **Credit Hours: 3**
- PHC 6522 Nutrition in Health and Disease **Credit Hours: 3**
- HUN 6804 Nutrition and Dietetics Research **Credit Hours: 3**

Public Health Education (17 Concentration Credit Hours)

- HSC 5036 Professional Foundations of Health Education **Credit Hours: 1**
- PHC 6500 Theoretical and Behavioral Basis for Health Education **Credit Hours: 4**
- PHC 6505 Program Planning in Community Health **Credit Hours: 3**
- PHC 6507 Health Education Intervention Methods **Credit Hours: 3**
- PHC 6412 Health Disparities and Social Determinants **Credit Hours: 3**
- PHC 6708 Evaluation and Research Methods in Community Health **Credit Hours: 3**

Public Health Practice (15 Concentration Credit Hours)

- PHC 6063 Public Health Data, Information and Decision Making **Credit Hours: 3**
- PHC 6421 Public Health Law and Ethics **Credit Hours: 3**
- PHC 6104 Management of Public Health Programs **Credit Hours: 3**
- PHC 6146 Health Services Planning and Evaluation **Credit Hours: 3**
- PHC 6147 Managing Quality in Health Care **Credit Hours: 3**

Social Marketing (12 Concentration Credit Hours)

- PHC 6411 Introduction to Social Marketing for Public Health **Credit Hours: 3**
- PHC 6705 Formative Research Methods in Social Marketing **Credit Hours: 3**
- PHC 6460 Social Marketing Program Management **Credit Hours: 3**
- PHC 6461 Advanced Social Marketing **Credit Hours: 3**



Electives (9 credit hours minimum)(varies with each concentration)

All students must complete a minimum of nine credit hours of graduate electives. Students in the following concentrations must complete additional elective hours as noted:

6 additional hours - Applied Biostatistics (ABT)

3 additional hours - Environmental and Occupational Health (EOH)

13 additional hours - Epidemiology and Global Communicable Disease (EGD)

10 additional hours - Epidemiology and Global Health (EGH)

13 additional hours - Epidemiology and Maternal and Child Health (EMC)

6 additional hours - Global Communicable Disease (TCD)

6 additional hours - Global Disaster Management, Humanitarian Relief and Homeland Security (GHH)

3 additional hours - Social Marketing (SOM)

All elective hours must be approved by a faculty mentor.

Additional electives, if required, - 3 hours minimum (varies by concentration)

Comprehensive Exam

Passing the CPH exam is a requirement for graduation by all MPH students. Students must be enrolled for two credits the term taking the exam.

- 1st attempt the college of Public Health will pay funds permitting
- 2nd attempt student pays
- 3rd attempt is an oral exam given by the College of Public Health

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway

Concurrent Degree

Also available as a Concurrent Degree



Public Health, M.S.P.H.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Behavioral Health
Environmental and Occupational Health
Epidemiology
Genetic Counseling
Genomics
Global Communicable Disease
Maternal and Child Health
Occupational Exposure Science
Public Health Education

Contact Information

College: Public Health

Contact Information: <http://www.grad.usf.edu/majors>

The base of knowledge for public health comes from a variety of disciplines, ranging from social sciences to biological sciences and business, brought together by a commitment to improve the public's health. Thus, the field of public health is broad and is open to students from diverse academic disciplines including Health Sciences, Education, Engineering, Business, Communications, Mathematics, Social Sciences, and Natural Sciences. Graduates are prepared for interdisciplinary focused public health professional careers as administrators, managers, educators, researchers, and direct service providers.

Accreditation:

The College is accredited by the Council on Education for Public Health and the concentration of Occupational Exposure Science (Industrial Hygiene) in the M.S.P.H. degree is accredited by the Applied Science Accreditation Commission of ABET, <http://www.abet.org>. The concentration in Genetic Counseling in the M.S.P.H. degree is accredited by the Accreditation Council for Genetic Counseling.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- GRE or equivalent (GMAT, MCAT, DATE, or PCAT, required. LSAT is not accepted in Lieu of the GRE. GRE scores will be compared to applicant pool and national GRE norms.
- Applicants who have a terminal degree (i.e. Ph.D., Sc.D. or Ed.D.), or advanced professional degrees (i.e., M.D., D.D.S., D.O., D.V.M., J.D., Pharm.D., D.P.T.) from accredited institutions and who are individually licensed in the United States in their profession may request to waive the GRE (<https://usfhealth.box.com/s/ievl84vasytoc20u3s9xsw59r44fdiyk>). The GRE waiver is not automatic and must be approved by the College of Public Health.

Meeting of these criteria per se shall not be the only basis for admission.

Curriculum Requirements

Total Minimum Hours: 42 credit hours



- **Core Requirements - 9 Credit hours**
- **Concentrations Requirements - 6 Credit hours minimum (varies)**
- **Electives - 18 Credit hours minimum**
- **Additional electives, if required - 1 Credit hour minimum (varies by concentration)**
- **Thesis - 6 Credit hours minimum**

Students must complete the Major core requirements and then the requirements as specified for the Concentration. Concentration hour requirements vary, so in some instances, students will graduate with more than the 42 hour minimum required for the major. The minimum hours required for the major and concentration must be satisfied for degree completion.

Core Courses (9 Credit Hours)

- PHC 6588 History and Systems of Public Health **Credit Hours: 1**
- PHC 6756 Population Assessment: Part 1 **Credit Hours: 5**
- PHC 6757 Population Assessment: Part 2 **Credit Hours: 3**

Concentration Requirements - 6 hours minimum (varies)

Students select from the following Concentrations:

Behavioral Health (6 Concentration Credit Hours)

- PHC 6543 Foundations in Behavioral Health Systems **Credit Hours: 3**
- PHC 6546 Epidemiology of Mental Disorders **Credit Hours: 3**

Environmental and Occupational Health (6 Concentration Credit Hours)

- PHC 6310 Environmental Occupational Toxicology **Credit Hours: 3**
- PHC 7317 Risk Communication in Public Health **Credit Hours: 3**

Epidemiology (6 Concentration Credit Hours)

- PHC 6053 Categorical Data Analysis **Credit Hours: 3**
- PHC 6011 Epidemiology Methods II **Credit Hours: 3**

Genetic Counseling (8 Concentration Credit Hours)

- PHC 6596 Introduction to Genetic Counseling **Credit Hours: 1**
- PHC 6595 Applied Clinical Genetics **Credit Hours: 3**
- PHC 6593 Professional Development in Genetic Counseling **Credit Hours: 1**
- PHC 6940 Clinical Practicum in Genetic Counseling **Credit Hours: 1-6 (3 credits for this program)**

Genomics (6 Concentration Credit Hours)

- PHC 6601 Human Genomics in Medicine and Public Health **Credit Hours: 3**
- PHC 6597 Quantitative Genomics and Genetics **Credit Hours: 3**



Global Communicable Disease (6 Concentration Credit Hours)

- PHC 6561 Laboratory Techniques in Public Health **Credit Hours: 3**
- PHC 6722 Laboratory Rotations in Global Health Research **Credit Hours: 3**

Maternal and Child Health (6 Concentration Credit Hours)

- PHC 6530 Issues and Concepts in Maternal and Child Health **Credit Hours: 3**
- PHC 6537 Case Studies in MCH Programs, Policies and Research **Credit Hours: 3**

Occupational Exposure Science (8 Concentration Credit Hours)

- PHC 6356 Industrial Hygiene **Credit Hours: 2**
- PHC 6358 Physical Agents - Assessment and Control **Credit Hours: 2**
- PHC 6365C Analytical Methods in Industrial Hygiene I **Credit Hours: 2**
- PHC 6366C Analytical Methods in Industrial Hygiene II **Credit Hours: 2**

Public Health Education (7 Concentration Credit Hours)

- PHC 6500 Theoretical and Behavioral Basis for Health Education **Credit Hours: 4**
- PHC 6412 Health Disparities and Social Determinants **Credit Hours: 3**

Electives - 18 hours minimum

All students must complete a minimum of eighteen credit hours of graduate electives. Students in the following concentrations must complete additional elective hours as noted:

- 5 additional hours - Behavioral Health
- 3 additional hours - Environmental and Occupational Health
- 9 additional hours - Epidemiology
- 1 additional hours - Genetic Counseling
- 3 additional hours - Genomics
- 3 additional hours - Global Communicable Disease
- 5 additional hours - Maternal and Child Health
- 4 additional hours - Occupational Exposure Science
- 4 additional hours - Public Health Education

All elective hours must be approved by faculty mentor.

Thesis (6 Credit Hours)

- PHC 6971 Thesis: Master of Science in Public Health **Credit Hours: 2-19 (6 credits for this program)**

Comprehensive Exam

Must be registered for at least two credit hours of coursework. Thesis proposal defense may be used in lieu of the comprehensive exam.



Public Health, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

- Biostatistics
- Community and Family Health
- Environmental and Occupational Health
- Epidemiology
- Global Communicable Disease
- Health Services Research

Also offered as a Concurrent Degree

Contact Information

College: Public Health

Contact Information: <http://www.grad.usf.edu/majors>

The base of knowledge for public health comes from a variety of disciplines, ranging from social sciences to biological sciences and business, brought together by a commitment to improve the public's health. Thus, the field of public health is broad and is open to students from diverse academic disciplines including Health Sciences, Education, Engineering, Business, Communications, Mathematics, Social and Natural Sciences. Graduates are prepared for interdisciplinary focused public health professional careers as administrators, managers, educators, researchers, and direct service providers.

The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes, online course delivery, partnerships with international schools to expand options, a variety of graduate certificates, and a professional M.P.H. for experienced Health Care professionals.

Accreditation:

The College is accredited by the Council on Education in Public Health.

Major Research Areas:

Faculty major research areas are listed at: <http://health.usf.edu/publichealth/index.htm>

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below. Applicants to the doctoral major in Public Health must meet the following minimum criteria in order to be considered for admission. However, the meeting of these criteria per se, shall not be the only basis for admission.

- Complete both a SOPHAS application and a USF Graduate Studies Application and pay the applicable fee for each (applicants will receive a request for the \$30 fee once the SOPHAS application enters the USF system).
- Transcripts
- Resume or curriculum vitae



- At least two formal Letters of Recommendation.
- Evidence of written/analytical skills to the College of Public Health which will take two-forms:
 - A graduate level term paper, thesis, or research paper of which the student is the sole author, publication on which the student is the first author; and
 - A detailed personal statement of less than five pages that describes why the applicant wishes to obtain a Ph.D. degree in Public Health.

Curriculum Requirements

Total minimum hours – 55 Credit Hours Post-Master's

- **Core: 13 credit hours**
- **Concentration: 12 credit hours minimum**
- **Electives: 12 credit hours minimum**
- **Dissertation: 18 credit hours minimum**

Prerequisites

The doctoral committee or the department may require prerequisites. These courses are not included in the minimum number of hours a student needs to complete the Ph.D. and are expected to be completed early in the course of study.

Public Health Core Courses (13 Credit Hours)

- PHC 7982 Introduction to Doctoral Training in Public Health **Credit Hours: 1**
- PHC 7154 Evidence-informed Public Health I **Credit Hours: 3**
- PHC 7103 Transforming Public Health Practice **Credit Hours: 3**
- PHC 7149 Practical Applications II: Public Health Leadership **Credit Hours: 1**
- PHC 7934 Writing for Scholarly Publication in Health Science **Credit Hours: 3**
- HSC 7268 Professional Foundations III: Joining the Academy **Credit Hours: 2**

Concentration Option Requirements

Students select one of the following concentrations:

Biostatistics (12 Concentration Credit Hours)

- PHC 6061 Biostatistical Case Studies and Collaboration II **Credit Hours: 3**
- PHC 7098 Generalized Linear Models **Credit Hours: 3**
- PHC 7059 Advanced Survival Data Analysis **Credit Hours: 3**
- PHC 7056 Longitudinal Data Analysis **Credit Hours: 3**

Community and Family Health (12 Concentration Credit Hours)

- PHC 7405 Theoretical Application to Public Health Issues **Credit Hours: 3**
- PHC 7702 Advanced Public Health Research and Evaluation Methods **Credit Hours: 3**
- PHC 7704 Applied Research Methods in Community and Family Health **Credit Hours: 3**
- PHC 7152 Policy and Practice in Community and Family Health **Credit Hours: 3**



Environmental and Occupational Health (12 Concentration Credit Hours)

- PHC 6310 Environmental Occupational Toxicology **Credit Hours: 3**
- PHC 7317 Risk Communication in Public Health **Credit Hours: 3**
And six (6) additional hours of graduate coursework selected with the Graduate Advisor

Epidemiology (12 Concentration Credit Hours)

- PHC 6011 Epidemiology Methods II **Credit Hours: 3**
- PHC 7045 Practical Issues in Epidemiology **Credit Hours: 3**
- PHC 6081 Intermediate SAS in Epidemiology **Credit Hours: 3**
- PHC 6021 Fundamentals of Clinical Trials **Credit Hours: 3**

Global Communicable Disease (12 Concentration Credit Hours Minimum)

Select at least six (6) credits of the following courses and six (6) additional hours of graduate coursework selected with the Graduate Advisor. Course choices should be approved following consultation with the student's committee. Course substitutions will be permitted with the student committee's approval.

- ANG 6701 Contemporary Applied Anthropology **Credit Hours: 3**
- ANG 6732 Global Health from an Anthropological Perspective **Credit Hours: 3**
- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3**
- BCH 6889 Bioinformatics II **Credit Hours: 3**
- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4 (3 credits for this program)** (Proteomics)
- GIS 6306 Environmental Applications of Geographic Information Systems **Credit Hours: 3**
- GIS 6038C Remote Sensing **Credit Hours: 3**
- GMS 6101 Molecular and Cellular Immunology **Credit Hours: 3-4 (3 credits for this program)**
- GMS 6110 Microbial Pathogenesis and Host-Parasite Interactions **Credit Hours: 3**
- GMS 6200C Biochemistry, Molecular and Cellular Biology **Credit Hours: 5**
- GMS 7930 Selected Topics **Credit Hours: 1-3 (2 credits for this program)** (Medical Parasitology & Mycology)
- PCB 6525 Molecular Genetics **Credit Hours: 3**
- PHC 6010 Epidemiology Methods I **Credit Hours: 3**
- PHC 6106 Global Health Program Development and Administration **Credit Hours: 3**
- PHC 6190 Public Health Database Management **Credit Hours: 3**
- PHC 6251 Disease Surveillance and Monitoring **Credit Hours: 3**
- PHC 6373 Protecting Public Health: Bioterrorism/Biodefense **Credit Hours: 3**
- PHC 6442 Global Health Applications in the Field **Credit Hours: 3**
- PHC 6511 Public Health Immunology **Credit Hours: 3**
- PHC 6512 Vectors of Human Disease **Credit Hours: 3**
- PHC 6513 Public Health Parasitology **Credit Hours: 3**
- PHC 6761 Global Health Assessment Strategies **Credit Hours: 3**
- PHC 6764 Global Health Principles and Contemporary Issues **Credit Hours: 3**
- PHC 6934 Selected Topics in Public Health **Credit Hours: 1-6 (3 credits for this program)** (Public Health GIS)
- PHC 7908 Specialized Study in Public Health **Credit Hours: 1-9 (3 credits for this program)**
- PHC 7122 Vaccinology **Credit Hours: 3**
- PHC 7935 Special Topics in Public Health **Credit Hours: 1-3 (3 credits for this program)** (Field Methods I: EcoHealth & Ecology)



- PHC 7935 Special Topics in Public Health **Credit(s): 1-3 (3 credits for this program)** (Infection Control in Developing Countries)

Health Services Research (12 Concentration Credit Hours)

- QMB 7565 Introduction to Research Methods **Credit Hours: 3**
- QMB 7566 Applied Multivariate Statistical Methods **Credit Hours: 3**
- PHC 7936 Seminar in Health Care Outcomes Measurement **Credit Hours: 3**
- PHC 7437 Applications in Health Economics **Credit Hours: 3**

Electives (12 Credit Hours Minimum)

All students complete a minimum of 12 credit hours of electives. Students in the following concentration must take additional graduate electives as noted above in the concentration section:

Environmental and Occupational Health (EOH) - 6 additional hours

Global Communicable Disease (TCD) - 6 additional hours

Teaching

All doctoral students will demonstrate or document proficiency in teaching academic courses at the university level.

Qualifying Exam

When all required coursework is satisfactorily completed (including tools of research and prerequisites), the student must pass a comprehensive qualifying examination covering the subject matter in the major and related fields. The concentration will set the specific criteria.

The qualifying exam will comprise of a written portion and may include an oral component. The exam will cover at least three major areas including: a) Broad area of public health; b) Focus area of study; c) Research methods. The student may have no longer than 10 weeks to complete the exam upon receipt of the exam from the Doctoral Supervisory Committee. The format and duration of the qualifying exam is the responsibility of the Doctoral Supervisory Committee following consultation with the student and consistent with concentration, college, and university guidelines. The Doctoral Supervisory Committee will have up to three weeks to review the exam and determine the outcome of either Pass or Fail. No more than two attempts will be allowed for the student to take the qualifying exam and earn a Pass. If the student receives a Fail on the qualifying exam on the first attempt and the Doctoral Supervisory Committee recommends that the student complete remedial work, the second attempt at the qualifying exam must be initiated within three- months of completion of remedial work. If the student earns a Fail on the first attempt, and the Committee determines that no remedial work is needed, the student will have a second attempt to pass which must be initiated within three months. If the student does not earn a Pass on the qualifying exam on his/her second attempt, the student will not be admitted into doctoral candidacy. After successful completion of the qualifying exam and appropriate paperwork is submitted to the Office of Graduate Studies, the student is admitted to candidacy and may register for dissertation hours.

Dissertation (18 Credit Hours)

All students must follow the University's "Guidelines for Dissertations and Theses" found at <https://www.usf.edu/graduate-studies/students/electronic-thesis-dissertation/index.aspx>. The Dissertation must conform to one of the following two available options per USF degree requirements. For details, consult the USF Graduate Catalog Degree Requirements Section.

- Option 1: Traditional format inclusive of Part I Preliminary Pages, Part II Text, Part III References/Appendices, Part IV About the Author.
- Option 2: Collection of articles/papers instead of chapters inclusive of Part I Preliminary Pages, Part II Collection of Articles/Papers, Part III References/Appendices.



After the Doctoral Dissertation Committee has determined that the final draft of the Dissertation is suitable for presentation, the Committee will request the scheduling and announcement of the Dissertation Defense. Consistent with USF Graduate Degree Requirements, a copy of the announcement should be sent to the USF Office of Graduate Studies and posted in a public forum preferably two weeks in advance of the defense date.

In addition, the Concentration in Biostatistics and the Concentration in Epidemiology have additional format requirements. Consult with the dissertation committee and concentration lead or information on the format options and requirements for these two concentrations.

Guidelines for student progress:

Each Ph.D. student will undergo an annual review consistent with concentration guidelines. A summary of the annual review will be provided to the student and placed in the student's advising file.

- PHC 7980 Dissertation **Credit Hours: 2-19 (18 credits for this program)** (Doctorate)

Concurrent Degree

Also available as a Concurrent Degree

Graduate Certificate



Applied Biostatistics Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

Biostatistics is the application of statistical methods to scientific research in health-related fields, including medicine, nursing and public health. Biostatisticians play essential roles in designing studies, analyzing data using biostatistical methodology, and developing new methods to solve challenging research problems. This graduate certificate of applied biostatistics program is a good choice for students who want to acquire data-analysis skills and a greater knowledge of biostatistics. Such gains of skill are useful in fields such as public health, medicine, nursing, business, education, engineering and other related areas. Upon completion of the program, the acquired skills can be applied immediately in the workplace, making the graduates more valuable problem solvers for their organizations.

Course Location/Delivery

The Certificate is offered at the Tampa campus and fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

Quantitative skills as demonstrated by previous courses in algebra or equivalent.

Curriculum Requirements (14 Credit Hours)

- PHC 6756 Population Assessment: Part 1 **Credit Hours: 5**
- PHC 6051 Biostatistics II **Credit Hours: 3**
- PHC 6053 Categorical Data Analysis **Credit Hours: 3**

And select one of the following:

- PHC 6701 Computer Applications for Public Health Researchers **Credit Hours: 3**
- PHC 6010 Epidemiology Methods I **Credit Hours: 3**

Time Limit / Average Time to Completion

The approximate time to complete the Certificate is two years.



Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Assessing Chemical Toxicity and Public Health Risks Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The online Assessing Chemical Toxicity and Public Health Risks Graduate Certificate is designed to introduce post-baccalaureate students to fundamental concepts in the discipline of chemical toxicity and public health risks as they are applied in related professions. This certificate program will advance the knowledge of current professionals in fields related to occupational health and environmental health, and will prepare students with the intention of pursuing a graduate level degree in these fields. Students will apply concepts in chemistry, toxicology and hazardous materials to issues of occupational and environmental health regulations, hazardous materials safety, chemical related illness, and risk analysis.

Course Location/Delivery

The Certificate is offered fully online

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Applicants must hold a bachelor's degree in a science-based field (e.g. life science, natural science, and engineering) from an accredited institution with a minimum 3.00 GPA.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

One course in college level chemistry.

Curriculum Requirements (13 Credit Hours)

- PHC 6353 Environmental and Occupational Health Risk Assessment **Credit Hours: 3**
- PHC 6373 Protecting Public Health: Bioterrorism/Biodefense **Credit Hours: 3**
- PHC 6934 Selected Topics in Public Health **Credit Hours: 1-6**
Hazardous Materials of the Workplace (3 Credit Hours)
- PHC 7931 Advanced Interdisciplinary Seminar in Public Health **Credit Hours: 1-3**
Case Studies in EOH (3 Credit Hours)
Seminar (1 Credit Hour)



Time Limit / Average Time to Completion

The approximate time to complete the Certificate is two years.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Concepts & Tools of Epidemiology Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The online Graduate Certificate in Epidemiology is designed to combine basic training in epidemiologic concepts and methods with specialized training in epidemiologic disease areas and analytic/data skills. Required coursework provides an overview of basic epidemiologic concepts, methods and analytic/statistical tools while the electives provide more in-depth training in several epidemiologic specialty areas and the development of skills in data analysis/computer applications. The goal of the certificate is to provide students with an understanding of concepts and tools of epidemiology and in-depth knowledge of selected disease areas of public health importance.

Course Location/Delivery

Online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Yes

Requirements of this Certificate (12 Credit Hours)

- PHC 6010 Epidemiology Methods I **Credit Hours: 3**
- PHC 6051 Biostatistics II **Credit Hours: 3**
- PHC 6701 Computer Applications for Public Health Researchers **Credit Hours: 3**

Electives

Consult Dept.

Time Limit

2 years



Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Disaster Management Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Graduate Certificate in Disaster Management is designed to enhance the knowledge base of public health professionals, as well as other disaster management personnel, in the management, preparedness, response, and recovery from natural and man-made disasters. The design of the certificate engages the student in critical thinking skills that enable them to reduce the health complexities of disasters. The certificate is also designed to increase the managerial and leadership skills of public health professionals working with large populations after a disaster (i.e., refugee and displaced populations).

Course Location/Delivery

Online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Yes

Requirements of this Certificate (12 Credit Hours)

- PHC 6183 Overview of United States and International Emergency/Disaster Management **Credit Hours: 3**
- PHC 6185 Emergency/Disaster Preparedness and Planning **Credit Hours: 3**
- PHC 6184 Emergency/Disaster Recovery **Credit Hours: 3**
- PHC 6186 Public Health Emergencies in Large Populations (PHLEP) **Credit Hours: 3**
- PHC 6945 Supervised Field Experience **Credit Hours: 1-12**

Electives

None

Time Limit



3 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Epidemiology of Infectious Diseases Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered partially online.

Description

This online Graduate Certificate in Epidemiology of Infectious Diseases creates an in depth training in epidemiologic methods and their application to the study, control and prevention of infectious diseases as well as basic training in biostatistical concepts, to help students understand and interpret the statistical methods used by epidemiologist. Focus will be on the application of methods such as study design, surveillance, GIS, vaccination strategies, etc. as applied to infectious diseases.

This certificate is unique because it will provide not only the knowledge and understanding of the epidemiology of infectious diseases, but will also provide the necessary tools to be applied in the field.

Course Location/Delivery

The Certificate is offered online and at the Tampa campus.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Pre-Requisites

- History and Systems (1 credit)
- Population Assessment I (5 credits)

Or the two following Graduate level courses:

- Epidemiology (3)
- Biostatistics (3)

Curriculum Requirements (12 Credit Hours)

- PHC 6002 Infectious Disease Epidemiology **Credit Hours: 3**
- PHC 6006 Epidemiological Methods in Infectious Diseases **Credit Hours: 3**
- PHC 6010 Epidemiology Methods I **Credit Hours: 3**
And one of the following:
- PHC 6251 Disease Surveillance and Monitoring **Credit Hours: 3**
- PHC 6517 Infectious Disease Prevention Strategies **Credit Hours: 3**
- PHC 6562 Microbiology for Healthcare Workers **Credit Hours: 3**



Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average Time to Completion

The approximate time to complete the Certificate is two years.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Global Health Practice Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

The certificate is a cluster of four courses in global health practice and one international field course. The cluster is the concentration area of the MPH in Global Health Practice. The fifth course is taught by faculty from the College of Public Health who are leading researchers or health professionals in a particular resource poor country or region. Examples of field sites include China, India, Dominican Republic, Ecuador, Belize, Liberia, Malaysia, Western Africa and Eastern Europe.

Course Location/Delivery

Four of the courses are taught in the evenings at the USF Tampa College of Public Health. One course is a field course taught in-country.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

A bachelor's degree in Public Health from an accredited institution is preferred, but other majors will be considered.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (15 Credit Hours)

- PHC 6764 Global Health Principles and Contemporary Issues **Credit Hours: 3**
- PHC 6761 Global Health Assessment Strategies **Credit Hours: 3**
- PHC 6106 Global Health Program Development and Administration **Credit Hours: 3**
- PHC 6442 Global Health Applications in the Field **Credit Hours: 3**
- PHC 6766 Global Health Challenges: In-Country Case Study (Field Course) **Credit Hours: 3**

Time Limit / Average Time to Completion

The approximate time to complete the Certificate is three years.

Credit Toward Graduate Degree

Up to 12 credit hours of certificate related courses may be applied toward a master's degree, contingent upon departmental approval.



Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Health and Wellness Coaching Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This Certificate program is intended to train graduate students and healthcare providers to meet the requirements for certification as a Health & Wellness Coach. Certification will enable the student to provide Health & Wellness Coaching in a number of various healthcare organizations. The required courses will present the frameworks, methods, and skills necessary to meet required competencies for credentialing.

Location/Delivery

Tampa

Delivery: on campus and face-to-face.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

- Suggested/preferred undergraduate majors: physical education, exercise science, public health, psychology, health education, anthropology

Application Process

In addition to the application, please submit:

- Graduate Certificate Department Approval form (Print, sign, and submit this form with all other documents to our office)
- Official Transcripts
- a Resume
- Letter of Interest

Time Limit

Average time for completion is three semesters.

Credit toward Graduate Degree

Up to 9 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Prerequisites

None

Curriculum Requirements (9 credit hours)

- PHC 6587 Health & Wellness Coaching: Advanced Methods **Credit Hours: 3**
- PHC 6589 Health & Wellness Coaching: Core Principles **Credit Hours: 3**
- PHC 6586 Health and Wellness Coaching: Skill Development **Credit Hours: 3**

Contact

Contact Information: <http://www.grad.usf.edu/cert>



Health Management & Leadership Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

This certificate is designed to serve persons who want to enhance their knowledge and potential to pursue management and leadership positions in health services. It furthers an understanding of health system organization and financing, health policy, managed care and insurance, and management decision-making.

Course Location/Delivery

Campus & Downtown Center

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None.

Required Courses (12 Credit Hours)

Students choose two of the following, and then two electives:

- PHC 6435 Comparative Health Insurance Systems **Credit Hours: 3**
- PHC 6180 Health Services Management **Credit Hours: 3**
OR
- PHC 6181 Organizational Behavior in Health Services **Credit Hours: 3**

Electives

Consult Dept. Recommended Electives:

- PHC 6148 Strategic Planning and Health Care Marketing **Credit Hours: 3**
- PHC 6151 Health Policy and Politics **Credit Hours: 3**
- PHC 6160 Health Care Financial Management **Credit Hours: 3**
- PHC 6420 Health Care Law, Regulation and Ethics **Credit Hours: 3**



Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Health, Safety and Environment Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

This Certificate program is intended to appeal to experienced working professionals anywhere in the world who seek to broaden their understanding of the interrelatedness of the areas of health, safety and environment. The required courses will present the fundamental of Health, Safety, and Environment and address topics that include basics of the persistent worldwide issues of air and water quality, solid and hazardous wastes, worker safety, legal requirements, and effective management. The impact of health, safety and the environment topics will be addressed for developed and less developed countries.

Location/Delivery

The Certificate is offered fully online

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements. Suggested/preferred undergraduate majors: environmental science, engineering, biology, public health.

Application Process

To learn about the application process, and to access the application, please review our application process.

Time Limit / Average Time to Completion

The approximate time to complete the Certificate is two years.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Pre-Requisites

None.

Curriculum Requirements (15 Credit Hours)

- PHC 6307 Principles of Exposure Assessment & Control **Credit Hours: 3**
- PHC 6300 Principles of Environmental Health **Credit Hours: 3**
- PHC 6325 Environmental Laboratory Principles **Credit Hours: 3**
- PHC 6345 HSE Management & Administration **Credit Hours: 3**
- PHC 6326 Global Issues in Environmental Health **Credit Hours: 3**

Contacts



Contact Information: <http://www.grad.usf.edu/cert>



Homeland Security Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

The Graduate Certificate in Homeland Security has been developed to provide credentialing for the Homeland Security profession. The intent is to prepare local, state and federal Homeland Security leaders to:

- Develop strategies, plans and programs
- Develop organizational arrangements including civil-military, local/state/federal and interagency cooperation
- Make sound leadership decisions regarding Homeland Security related policy, priority, scientific advancements and resources

Location/Delivery

This certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements. A bachelor's degree in public health is preferred, but others will be considered.

Application Process

To learn about the application process, and to access the application, please review our application process.

- Official transcripts
- A resume
- Letter of interest including overview of experience or education in public health, global issues or resource poor countries

Pre-Requisites

None.

Curriculum Requirements (15 Credit Hours)

- PHC 6235 Critical Infrastructure Protection for Public Health Concepts **Credit Hours: 3**
- PHC 6236 Business Continuity for Global Health and Security **Credit Hours: 3**
- PHC 6254 Public Health Implications and Concerns in Homeland Security **Credit Hours: 3**
- PHC 6255 Homeland Security: Law, Policy and Public Health **Credit Hours: 3**
- PHC 6373 Protecting Public Health: Bioterrorism/Biodefense **Credit Hours: 3**

Contacts



Contact Information: <http://www.grad.usf.edu/cert>



Humanitarian Assistance Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

The Graduate Certificate in Humanitarian Assistance is intended for public health professionals, as well as other humanitarian aid providers, who are interested in enhancing their knowledge of the foundations and principles of humanitarian assistance, while providing mechanisms for putting that knowledge into practice. This certificate is designed to supplement and enhance the work related experiences of professionals who are serving those affected by humanitarian emergencies, either in the United States or abroad, while also providing a foundation for persons who wish to pursue such a career. The Certificate aims to engage students in critical thinking skills, enabling them to help develop more effective aid delivery systems.

The Certificate is also intended to enhance the leadership and management skills for public health professionals working with populations in need of humanitarian assistance, particularly international refugees and displaced populations. The curriculum is interdisciplinary in nature and scope and designed to develop and improve the skills of persons interested in providing emergency health services in humanitarian emergencies.

Location/Delivery

This certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

The approximate time to complete the Certificate is four years.

Pre-Requisites

Courses are sequenced. Each course listed below is the prerequisite for the one following it.

Curriculum Requirements (12 Credit Hours)

- PHC 6230 Foundations of Humanitarian Assistance **Credit Hours: 3**
- PHC 6231 Organizing Emergency Humanitarian Actions **Credit Hours: 3**
- PHC 6232 From Emergency to Development and Prevention **Credit Hours: 3**



- PHC 6233 Current Challenges in the Humanitarian Field **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Infection Control Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

The Graduate Certificate in Infection Control enhances the knowledge base of post-baccalaureate nurses, medical technologists, microbiologists, or other health professionals employed as infection control practitioners. The director is certified in infection control (CIC) and brings over 20 years of infection control experience to administer this program. The design of the certificate encourages critical thinking skills that build competency for infection control professionals and provides managerial skills for effective infection control practice. The courses in the certificate program provide a comprehensive knowledge base to prepare students for the Certification Board of Infection Control and Epidemiology (CBIC) examination. (Note: specific infection control practical experience requirements must be met to sit for the CBIC exam).

Location/Delivery

This certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements. The applicant must hold an earned bachelor's degree from an accredited institution in nursing, medicine, microbiology or one in a related environmental or occupational health field. Appropriate work experience is required.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Per University Policy, all Certificates have a five year time limit; however, it is possible to complete the certificate in one year if two courses are taken in the fall semester.

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- PHC 6562 Microbiology for Healthcare Workers **Credit Hours: 3**
- PHC 6517 Infectious Disease Prevention Strategies **Credit Hours: 3**
- PHC 6314 Infection Control Program Design **Credit Hours: 3**
- PHC 6251 Disease Surveillance and Monitoring **Credit Hours: 3**



Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Maternal & Child Health Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

The certificate in maternal and child health (MCH) is designed to provide specialized training in public health problems affecting infants, children, adolescents, and women of all ages. Required coursework is designed to overview the major health issues affecting MCH populations, develop methodological skills selected areas, such as data analysis, program planning and evaluation and research. Support courses allow students to focus some of their coursework in selected areas of MCH interest. The certificate program has been developed for the following groups: 1) Public health practitioners 2) MPH students who desire focused graduate level training in MCH.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

Letter of Intent

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Requirements of this Certificate (15 Credit Hours)

- PHC 6530 Issues and Concepts in Maternal and Child Health **Credit Hours: 3**

Select 1:

- PHC 6708 Evaluation and Research Methods in Community Health **Credit Hours: 3**
- PHC 6505 Program Planning in Community Health **Credit Hours: 3**
- PHC 6197 Secondary Data Analysis in Maternal and Child Health **Credit Hours: 3**

Electives (9 credit hours minimum)

Selected with program advisor. Electives will be selected based on the student's experience and career goals/plans.

Time Limit



2 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Pharmacoepidemiology Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

The USF College of Public Health certificate in Pharmacoepidemiology is designed to enable students to acquire the necessary skills to provide evidence based solutions. Students will be required to take requisite courses with an applied/hands on approach that will culminate with an introductory course in Pharmacoepidemiology.

Pharmacoepidemiology is a burgeoning field of life sciences that studies the use and effect of drugs in the population. In collaboration with local organizations, students will gain experience in pharmacovigilance, adverse event reporting systems, regulatory requirements, biases most common in Pharmacoepidemiology, analysis, and industry standards.

Location/Delivery

USF Tampa - College of Public Health

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements. BS Pharm or other relevant Bachelor's degree

Application Process

To learn about the application process, and to access the application, please review our application process. In addition to your completed application form, transcripts, resume and letter of interest are required.

Credit Toward Graduate Degree

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

Time Limit / Average time to Completion

Five Years

Pre-Requisites

- PHC 6000 Epidemiology **Credit Hours: 3**
OR
- PHC 6050 Biostatistics I **Credit Hours: 3**
OR
- PHC 6756 Population Assessment: Part 1 **Credit Hours: 5**
- PHC 6701 Computer Applications for Public Health Researchers **Credit Hours: 3**

Curriculum Requirements (12 Credit Hours)

- PHC 6043 Trending Topics in Pharmacoepidemiology and Pharmacoconomics **Credit Hours: 3**
- PHC 6042 Methods in Pharmacoepidemiology **Credit Hours: 3**
- PHC 6010 Epidemiology Methods I **Credit Hours: 3**



- PHC 6054 Applications of Advanced Biostatistical Methods in Public Health **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Public Health Generalist Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

This certificate program aims at serving the following groups:

- Public health professionals who want additional graduate-level credentials.
- Physicians or nurses who want to explore public health.
- Students who are only interested in completing a few courses, not an MPH.

This Public Health Generalist certificate aims to facilitate and encourage formal training for the public health workforce and professionals interested in the future of the profession. This certificate consists of four core courses, representing the foundation of public health. This certificate provides students with an understanding of public health in a historical context, fostering foundational skills desirable for professionals engaging in the practice, education, and research of public health.

Location/Delivery

This certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process. In addition to your completed application form, transcripts, resume and letter of interest, you will need to submit the following documents:

- Two letters of recommendation

Credit Toward Graduate Degree

Up to 12 credit hours of certificate related courses may be applied toward a master's degree, contingent upon departmental approval. However, admission requirements for the College and the Department, such as a GRE score and letters of recommendation, must first be met.

Time Limit / Average time to Completion

The approximate time to complete the Certificate is one year.

Pre-Requisites

Students must have consent of the instructor to take courses.

Curriculum Requirements (12 Credit Hours)

- PHC 6588 History and Systems of Public Health **Credit Hours: 1**
- PHC 6756 Population Assessment: Part 1 **Credit Hours: 5**
- PHC 6757 Population Assessment: Part 2 **Credit Hours: 3**



- PHC 6145 Translation to Public Health Practice **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Public Health Policy & Programs Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This certificate is designed to serve persons who want to enhance knowledge and skills in public policies, use of public health data, and program management that advance the health of communities and populations, and who may not be available in the local community to do so.

Course Location/Delivery

Online, Campus (Sarasota)

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

- PHC 6063 Public Health Data, Information and Decision Making **Credit Hours: 3**
- PHC 6146 Health Services Planning and Evaluation **Credit Hours: 3**
- PHC 6421 Public Health Law and Ethics **Credit Hours: 3**

Electives

Select 1:

- PHC 6104 Management of Public Health Programs **Credit Hours: 3**
- PHC 6147 Managing Quality in Health Care **Credit Hours: 3**
- PHC 6435 Comparative Health Insurance Systems **Credit Hours: 3**
- or other w/ director consent

Time Limit



3 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Social Marketing & Social Change Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Graduate Certificate in Social Marketing is offered to graduate students and professionals who wish to develop the skills needed to develop, implement, and evaluate social marketing programs. The certificate coursework emphasizes translation of theory and evidence-based practice into community applications. The University of South Florida, College of Public Health, has been a leader in social marketing in public health for over 20 years. The certificate program was developed to meet the training needs of graduate students and professionals from multiple disciplines including public health, healthcare, mass communications, environmental studies, anthropology, social work, engineering, and business. Out-of-state and international learners are welcome in the certificate program. USF hosts the International Social Marketing conference and Training Academies bi-annually. USF also has the distinction of being a CDC funded Prevention Research Center, of which there are 26 in the country. The Florida Prevention Research Center uses community based prevention marketing to reduce health disparities.

Course Location/Delivery

Online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

Current graduate enrollment, or 15 hrs in master's level program OR B.S. w/ min. 3 yrs. Professional exp.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

- PHC 6411 Introduction to Social Marketing for Public Health **Credit Hours: 3**
- PHC 6705 Formative Research Methods in Social Marketing **Credit Hours: 3**
- PHC 6460 Social Marketing Program Management **Credit Hours: 3**
- PHC 6461 Advanced Social Marketing **Credit Hours: 3**

Time Limit

5 Years



Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Toxicology Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

This online Graduate Certificate in Toxicology is designed to introduce post-baccalaureate students to fundamental concepts in the discipline of toxicology. This certificate program will advance the knowledge of current professionals in fields related to occupational health and environmental health, and will prepare students with the intention of pursuing a graduate level degree in these fields. Students will apply concepts in the science of toxicology to issues of occupational and environmental health regulations, hazardous materials safety, chemical related illness, and exposure assessment.

Location/Delivery

This certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements. Applicants must hold a bachelor's degree in a science-based field (e.g. life science, natural science, and engineering).

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

The approximate time to complete the Certificate is two years.

Pre-Requisites

One course in college level chemistry.

Curriculum Requirements (14 Credit Hours)

- HSC 6556 Pathobiology of Human Disease I **Credit Hours: 3**
- PHC 6310 Environmental Occupational Toxicology **Credit Hours: 3**
- PHC 6369 Industrial Toxicology **Credit Hours: 2**
- PHC 6325 Environmental Laboratory Principles **Credit Hours: 3**
- PHC 6307 Principles of Exposure Assessment & Control **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Water, Health and Sustainability Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

The graduate certificate in Water, Health and Sustainability is intended for public health professionals, humanitarian aid providers, engineers and other planners, or anyone with an interest in addressing critical shortages and health problems associated with inadequate and unsanitary water throughout the world. The coursework is designed to provide instruction in the testing, treatment and management of water supplies; the role of water resources within the broader context of the earth's environment, particularly from a sustainability perspective; the role of water as a crucial component to global health; and the cultural dimensions of local and global health. As a result, the curriculum is highly interdisciplinary and aims to provide the skills and information necessary to address complex problems associated with water, sanitation, sustainability and health impacts to form teams that bring together many specialties. This certificate is particularly unique in that it draws from several disciplines within the colleges of Arts & Sciences, Engineering and Public Health, ensuring that its participants are very well prepared to think critically about these issues and address them using novel approaches.

Location/Delivery

USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

The approximate time to complete this Certificate is three years.

Pre-Requisites

None.

Curriculum Requirements (16 Credit Hours)

Contact advisor to set up course plan.

- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit Hours: 1-4** (1 Credit Hour)

And select nine (9) Credit hours from:

- ANG 6469 Selected Topics in Medical Anthropology **Credit Hours: 3**
Foundations of Medical Anthropology (3 Credit Hours)
- ANG 6585 Theories in Applied Bioanthropology **Credit Hours: 3**
CGN 6933 taken as Green Infrastructure for Sustainable Communities (3 Credit Hours)
- ECH 5785 Sustaining the Earth: An Engineering Approach **Credit Hours: 3**
- PHC 6761 Global Health Assessment Strategies **Credit Hours: 3**



- PHC 6934 Selected Topics in Public Health **Credit Hours: 1-6**
Water Pollution and Treatment (3 Credit Hours)
- ENV 6510 Sustainable Development Engineering **Credit Hours: 3**

And select 6 Credits from the following:

- ANG 6731 Health and Disasters **Credit Hours: 3**
- ANG 6739 Applied Anthropology and International Health **Credit Hours: 3**
- ECH 5786 Green Engineering **Credit Hours: 3**
- ECH 5748 Selected Topics in Biomedical Engineering **Credit Hours: 1-3**
Living in the Environment: An Integrated Approach (3 Credit Hours)
- ENV 6519 Physical and Chemical Processes for Groundwater Remediation **Credit Hours: 3**
- ENV 6666 Aquatic Chemistry **Credit Hours: 3**
- EVR 6216 Advances in Water Quality Policy and Management **Credit Hours: 3**
- GEO 6286 Advances in Water Resources **Credit Hours: 3**
- PHC 6764 Global Health Principles and Contemporary Issues **Credit Hours: 3**
- PHC 6183 Overview of United States and International Emergency/Disaster Management **Credit Hours: 3**
- PHC 6514 Infectious Disease Control in Developing Countries **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



College of The Arts

College of The Arts

TA - Programs

University of South Florida
College of The Arts
4202 E. Fowler Ave FAH110
Tampa, FL 33620

Web address: <http://www.arts.usf.edu/>

Email: info@arts.usf.edu

Phone: 813-974-2301

Fax: 813-974-2091

College Dean: Chris Garvin, M.F.A.

Associate Dean: Barton Lee

Mission Statement:

The mission of the USF College of The Arts is to conduct scholarly and creative research and to challenge and inspire students to make significant contributions in the arts. The College provides a learning environment that is engaged locally and nationally in contemporary issues and initiatives. The College offers graduate degree programs in Architecture, Art, Art History, Music, Music Education, and Urban and Community Design, as well as graduate certificates and advanced graduate certificates.

Major Research Areas: Contact College for information.

College Requirements

College Activities and Events

The College of The Arts arranges a full schedule of concerts, plays, lectures, exhibitions, and workshops featuring students, faculty, and visiting artists/scholars. Events are open to the general public and are presented both during the day and in the evening. Special ticket privileges are available to USF students. For more information, contact the COTA Events Office. Refer to the College website for more information.



School of Architecture and Community Design

Major



Architecture, M.Arch.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway (2+4)

Contact Information

College: The Arts

Dept: School of Architecture and Community Design

Contact Information: <http://www.grad.usf.edu/majors>

The major leading to the accredited Master of Architecture degree is intended for students who have completed baccalaureate degrees in architecture or pre-professional majors. Students with non-architectural majors or with a pre professional undergraduate major may also enter the program once pre-requisites are completed. The comprehensive and rigorous curriculum prepares graduates for a full range of professional activities. The course of study emphasizes urban architecture and related topics to take advantage of its diverse metropolitan setting in Florida's Tampa Bay.

The School of Architecture and Community Design (SACD) is home to the Florida Center for Community Design and Research, is a non-profit public service institute of the School of Architecture and Community Design. It was founded in 1986 to assist the citizens of Florida in the creation of more livable and sustainable communities through applied community design, multi-disciplinary research, and public education. The diverse staff includes architecture faculty and students, research scientists, and programmer analysts. In addition, the Center has affiliated faculty or graduate students from the Department of Anthropology, Biology, Fine Arts, Geography, and Social Work.

Accreditation and Licensure:

Applicants for architectural licensure in Florida, and most jurisdictions in the United States, normally must have:

- earned a professional degree from a School accredited by the National Architectural Accrediting Board (NAAB)
- completed the Intern Development Program (IDP)
- passed the Architect Registration Examination (ARE)

According to the 2014 edition of the of the NAAB Conditions and Procedures: "In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit US professional degree programs in architecture, recognized two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards. Masters degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree."

Major Research Areas:

Architecture and Community Design



Admission Information

In order to enroll in the M.Arc. major, students must be accepted by the Office of Graduate Studies and the School of Architecture and Community Design. These are separate admission processes that involve different application forms, supportive materials, and deadlines. For more detailed information, students should see Graduate Admissions online and visit the SACD website.

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

The Master of Architecture (M.Arch.) requires

- GRE Test Score
- Written Statement of Intent
- Three letters of recommendation
- Portfolio of creative work*
- Completed 3 prerequisite courses: Physics, Calculus, and AutoCAD

*Students who do not have a body of creative work may enroll in 11 hours of studio to create the required portfolio

Foundational Knowledge: 54 hours

Students who do not have a Bachelor's in Architecture or a post-professional degree are required to complete the following pre-requisites prior to admission to the Master's program. Courses completed in undergraduate pre professional or similar programs with a grade of B or above may apply with approval of admissions committee. Students must have an overall minimum of 3.00 GPA for Foundational Knowledge courses. Applicants must have completed courses in Physics, Calculus, and AutoCAD by the end of the first year in the Degree Program.

Design/Graphics- 39 hours

- ARC 5256
- ARC 5361
- ARC 5362
- ARC 5363
- ARC 5364
- ARC 5731
- ARC 5732

Technology -15 hours

- ARC 5467
- ARC 5470
- ARC 5587
- ARC 5588
- ARC 5689

Curriculum Requirements

Total Minimum hours- 39 (post-professional)

- **Core hours- 30 hours**
- **Research- 4 hours**



- **Project - 5 hours**

Note: for licensure a total of 108 hours is required

Core Requirements (30 hours)

- ARC 5365 Advanced Design B **Credit Hours: 6**
- ARC 5366 Advanced Design C **Credit Hours: 6**
- ARC 6287 Professional Practice I **Credit Hours: 3**
- ARC 6288 Professional Practice II **Credit Hours: 3**
- ARC 6367 Advanced Design D **Credit Hours: 6**
- ARC 6398 Introduction to Community and Urban Design **Credit Hours: 3**
- ARC 6481 Design Development **Credit Hours: 3**

Required Research Courses (4 hours)

- ARC 6936 Research Methods in Architecture **Credit Hours: 2**
- ARC 6974 Master's Project Planning **Credit Hours: 2**

Additional Courses (15 hours)

Students entering with a non-professional post-bachelor's will need to take additional coursework to meet the 108 hour requirement. All courses must be at the 5000 or 6000 level. Non-ARC courses must have prior approval of the faculty.

Comprehensive Exam

Successful completion of a the master's project serves in lieu of the comprehensive exam.

Master's Project (5 hours)

- ARC 6976 Terminal Master's Project **Credit Hours: 5**

Other Requirements

GPA of 3.00 in Design

In addition to the state-wide requirement that students maintain an overall grade point average(GPA) of 3.00 or better, the School also requires that students maintain a GPA of 3.00 or better in all design courses.

Portfolios

The faculty requires the submission of portfolios of academic work by each student at two formal portfolio reviews. Students must pass these portfolio reviews in order to advance in the major. The portfolio policy can be found on the School's website. Students are advised to prepare their design work for inclusion in their portfolios at the end of each design semester, instead of waiting until just before the portfolio due dates. Some expense, varying widely according to reproduction technique and/or ambition, should be anticipated.



Field Trips

During the fall and spring semesters, studio students take trips with their faculty to various cities, foreign and domestic. Students are responsible for the costs of these trips.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Urban and Community Design, M.U.C.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: The Arts

Department: School of Architecture and Community Design

Contact Information: <http://www.grad.usf.edu/majors>

The Urban and Community Design major at USF is a rigorous "design-based" course of study (i.e. post professional degree for design students) leading to the Master of Urban and Community Design (M.U.C.D.) degree. The major focuses on the myriad physical, functional, visual, social and sustainable circumstances in contemporary urban contexts and stresses the amassing of knowledge, and the acquisition of design, research, analytical and other practical skills. The instructional scope of the MUCD major is both broad and diverse. The major builds on previous studies in architecture or landscape architecture as the foundation for involving students in crafting design interventions across the varied spectrum of scales of urbanism – from the urban street and block, up to the metropolitan region. Support courses in the program's curriculum infuse an understanding of the fundamentals of urban and community design, the historical and theoretical foundations of the discipline, the methods of research and analysis used in urban and community design, the major determinants of urban form, the evolution of urban contexts, and the different modes of contemporary urban design practice. The major invites applications from prospective students who are interested in expanding their understanding of the physical dimensions of urbanism and the morphology of urban places, and amassing the skills necessary in crafting compelling design interventions that address the human experience and physical conditions of cities, towns and communities.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Professional undergraduate or graduate design degree (i.e. B.Arch., M.Arch., B.L.A., M.L.A.).
- Portfolio of design and creative work (While work completed in a professional capacity is welcomed, academic work is preferred as the primary portfolio content).
- Graduate Record Exam (GRE preferred minimum score of 500 on verbal and 500 on quantitative sections. The GRE will only be waived for applicants who have already earned a Master's degree).
- Letter of intent
- Three letters of recommendation (At least one letter must be from a former instructor or faculty member).

Curriculum Requirements

Total Minimum Hours - 45

- **Core – 15 Credit Hours**
- **Additional Required Courses - 18 Credit Hours**
- **Electives – 12 Credit Hours**

The curriculum for the M.U.C.D. major is intended to be completed in one full calendar year – Fall, Spring and Summer semesters. Each semester includes a design studio and up to three lecture courses, totaling 15 credit hours (The length of time to complete all degree requirements depends on individual course load during each semester of enrollment).



Core Requirements (15 Credit Hours Minimum)

- ARC 6373 Community Design Studio **Credit Hours: 6**
- ARC 5366 Advanced Design C **Credit Hours: 6**
- ARC 6398 Introduction to Community and Urban Design **Credit Hours: 3**

Additional Required Courses (18 Credit Hours)

Students complete the following coursework in the areas of design, history/theory, practice, and globalization.

- ARC 6930 Special Topics in Urban and Community Design **Credit Hours: 1-6**
Special Topics Courses:
- Master's Studio (6 Credit Hours for this program)
- The City (3 Credit Hours for this program)
- The Real Estate Development Process (3 Credit Hours for this program)
- Site/Context Analysis (3 Credit Hours for this program)
- Global Urbanism NOW! (3 Credit Hours for this program)

Electives (12 Credit Hours)

Students select electives in consultation with faculty/academic advisor.

Comprehensive Exam

The Comprehensive Exam is in the form of the Terminal Urban Design Project, which is displayed and presented (drawings, models, and other forms of representation as appropriate/required) are presented to faculty and a group of external reviewers.

Thesis/Non-Thesis (0 Credit Hours)

This major does not require a thesis.



School of Art and Art History

Major



Art History, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway

Contact Information

College: The Arts

Department: School of Art and Art History

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources: www.art.usf.edu

The M.A. program in Art History provides students with training in art history, theory, and methods to prepare them for careers in art collections, education, and cultural institutions, and for further graduate study at the Ph.D. level. Courses are offered in art from antiquity to the present. We see art history as an integral part of social and cultural history in a global context and our classes are interdisciplinary in scope. The major is unique in featuring small, intensive seminar-style courses. Students receive individual attention from an active, award-winning research faculty, who expose students to the most recent approaches in the field. Course work can be supplemented by international travel and study-abroad programs sponsored by the School of Art and Art History. The Contemporary Art Museum, Graphicstudio Institute for Research in Art and the Kennedy Family Visiting Artist/Scholar program are all valuable resources contributing to course content, study and possible internship opportunities in the program.

The degree provides an excellent foundation in graduate level art-historical analysis, research, and writing, an outstanding springboard for either continuing graduate studies (Ph.D.) to become a university professor, or professional work in a variety of arts fields including museums, non-profit and commercial galleries, libraries, education and publishing. Some of the positions in the arts held by our graduates include: museum curator, museum registrar, non-profit art gallery director, commercial art gallery director or administrator, museum educator, museum director, art critic, art librarian, visual resources professional, corporate art collection curator, state arts agency administrator, university administrator and program director, art history instructor K-12 and college, and after further graduate work, tenured university professor.

M.A. Art History students are guided by the art history faculty in selecting their area of research after completing a year of graduate study. This major features an endowed chair in modern and contemporary art history.

Accreditation:

Accredited by the National Association of Schools of Art and Design.

Major Research Areas:

Ancient, Late Medieval, Renaissance, Early Modern, Nineteenth Century, Twentieth Century, Contemporary, Islamic.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

For priority consideration: The electronic application and fee payment for USF Graduate Admissions must be completed by January 15 at <https://secure.vzcollegeapp.com/usf/> Supportive application materials can be submitted online beginning September 30 to January 15 at <https://usf.slideroom.com/#/login>. All official transcripts must be postmarked by January 15 and sent directly to the School of Art and Art History.



Applications will be accepted to June 1, but submissions after January 15 are less likely to receive scholarships and funding.

Application requirements:

- A GRE General Test Score, taken within five years preceding application, is required. Applicants who have graduated from USF with a major in art history in the last five years are exempted from this requirement. Official GRE scores must be sent to USF's Office of Graduate Admissions by the test administrator
- a CV/Resume
- a research paper dealing directly with Art History or a related discipline (literature, political history, psychology, philosophy or classical studies).
- Three letters of recommendation from people who can professionally assess the applicant's ability to do scholarly and academic work.
- A short essay of one to two pages explaining the applicant's research interests and goals for graduate study in art history. A personal interview by the Art History faculty may be requested.
- Admission is competitive. Fulfillment of the above-listed minimal admissions requirements does not guarantee acceptance into the program. All submitted materials of each applicant, including the Research Paper, statement of research goals, and the letters of recommendation, are reviewed by the Art History Faculty to assess academic potential.

Undergraduate Deficiencies in Art History

- Students pursuing graduate studies in Art History, who do not have an undergraduate degree in Art History may be required to take additional classes preliminary to acceptance.
- Exceptions can be granted only with consent of the Art History faculty.

Language Requirements

Reading knowledge of the foreign language most relevant for study and research in the student's area of specialization must be acquired before the end of the second semester of enrollment in the major. Students consult with their advisors to determine the language most appropriate to their scholarly interests. Please see the Academic Advisor for exceptions to this rule.

The student may take appropriate courses in the Department of World Languages. Whenever the courses are available, the student should be encouraged to take one of the special one semester foreign language courses designed for graduate students.

When these courses are not available, the student may take two semesters of a beginning foreign language course. These courses may not be taken pass/fail or audit. In order to fulfill the foreign language requirement, the student must receive a letter grade of "B" or better in both courses. Courses taken to fulfill the foreign language requirement can count toward up to eight hours of electives necessary for graduation and the grades in these courses will be computed in the student's graduate GPA.

Students may elect to take the GSFLT (Office of Graduate Studies Foreign Language Test). The student must achieve a score of 450 or above on the test in order to fulfill the foreign language requirement.

Students may take a proficiency exam in which they translate, from a foreign language into English, materials relevant to their particular disciplines. The form of these proficiency exams should be devised by the appropriate language professors from either of these two units.

Transfer of Credit

There is no automatic transfer of non-degree seeking student credit or graduate credit earned at other institutions or from other graduate majors in the University towards M.A. degree requirements. The School of Art and Art History has designated a six hour limit on all credit taken as non-degree seeking student status. Any transfer of credit or non-degree seeking student hours to be used toward M.A. degree requirements are only granted after a faculty review at the time the student has been accepted into the M.A. major.

Curriculum Requirements

Total Minimum Hours - 38 Credit hours



- **Core – 8 hours**
- **Area courses – 16 hours**
- **Electives – 8 hours**
- **Qualifying Paper option – 10 hours**
- **Thesis Option – 6 hours**

(38 hours minimum thesis option; 42 hours minimum qualifying paper option)

Core Courses (8 hours)

Core Courses (8 hours)

- ARH 5813 Methods of Art History **Credit Hours: 4**
- ARH 5816 Research in Art History **Credit Hours: 4**

Area Courses (16 hours)

Area Courses (16 hours minimum)

To learn about a range of art-historical methods, graduate students are required to take seminars in a variety of historical periods and taught by different faculty. A student should, if possible, have at least one graduate class in each of these three areas:

1. Ancient/Medieval/Islamic
2. Renaissance/Early Modern (15th-18th centuries)
3. Modern/Contemporary (19-21st centuries).

Museum experience is encouraged for all students, but course credit for museum internships is limited to those seeking a Certificate in Museum Studies.

- ARH 6798 Seminar in Art History **Credit Hours: 4**
Students choose from ARH 6798 with the following topics, or ARH 6891 .
Cross-Cultural Interactions in Islamic Art - ARH 5577
- ARH 5226 Art of the Medieval and Renaissance Book **Credit Hours: 4**
- ARH 5428 Cultural Encounters in Art **Credit Hours: 4**
- ARH 6868 Current Historiography: 20th Century **Credit Hours: 4**
- ARH 6891 Paris Art History **Credit Hours: 4**

Electives (8 hours)

Determined by individual consultation with Grad Director.

Thesis and Qualifying paper options

Students either write a qualifying paper or thesis to complete the requirements of the major. Students should consult with the Graduate Coordinator and the faculty to determine which option is the best for them; the final decision rests with the faculty. For either option, a B+ average or above is required in courses taken to fulfill Major graduate credits, for students to move on to this final phase of their graduate studies.

The M.A. in Art History is a two-year major for students who attend full time, but the thesis option often takes longer to complete.

Qualifying paper option (10 hours)



Students in the qualifying paper option complete ARH 6055 and an additional 8 hours in art history area courses (5000-level or above).

The qualifying paper should demonstrate the student's ability to do significant art-historical research, to persuade by effective use of evidence and argument, and to write fluently and clearly. The qualifying paper will usually be a substantially revised seminar paper and should be about 15-20 typed pages in length, excluding endnotes, bibliography, illustrations or other materials. Students choosing this option should form a qualifying paper committee by the end of the second semester of their first year. The Committee is composed of a major professor and a second faculty member. Members of the Committee are faculty in the School of Art and Art History, of which one must be tenured or tenure-earning. The Major Professor will usually be the professor who oversaw the writing of the original seminar paper. Students pursuing this option download the relevant form at <http://www.arts.usf.edu/absolutenm/articlefiles/20-GradComApptFrm.pdf>. Students are responsible for collecting committee members' signatures. The M.A. Graduate Coordinator must authorize all committee assignments with his/her signature

When submitting drafts of the qualifying paper to committee members, students must allow faculty members two weeks to read any given version. Remember that first drafts usually have to be extensively revised, often several times, before the qualifying paper is accepted. Faculty are not normally available during the summer to read qualifying paper drafts.

The qualifying paper committee must approve the qualifying paper before the student can graduate. Qualifying papers must be submitted two weeks before the last day of classes of the semester in which the student wishes to graduate. The major professor, in consultation with the other faculty member, notifies the Academic Advisor of the School of Art and Art History of approval of the paper before the end of the semester. If a paper is not approved, the student may revise and resubmit it a second time. It is the student's responsibility to stay abreast of Office of Graduate Studies deadlines and registration requirements in the final semester, which are available online at <http://www.grad.usf.edu>.

- ARH 6055 Art History **Credit Hours: 1-4**
(Writing the Qualifying Paper) (2 hours required)

Thesis Option (6 hours)

Students writing the thesis should work with faculty during the second semester to begin developing potential topics. By the end of the first year, students who wish to write the thesis should decide on a thesis topic with a major professor from the art history faculty. The topic is usually related to research done in a seminar. During the following summer students prepare the thesis proposal. The proposal should define a significant research problem and explain how the topic has the potential to contribute to scholarship in the field; it must include a research plan and a critical review of the scholarly literature on the subject area. Thesis proposals will be presented to faculty and fellow graduate students in a public forum at the beginning of the third semester. Each presentation is followed by discussion, which provides an opportunity for students to receive suggestions and recommendations from faculty and peers. If the proposal is declined, the student will be eligible to pursue a Qualifying Paper.

If the art history faculty approves the thesis topic, the student should form a thesis committee by the end of the semester in which they have successfully proposed a thesis topic, and have thereby achieved thesis candidacy.

The Committee is composed of at least two members and the Major Professor. The Major Professor and at least one other committee member must be chosen from tenured or tenure-earning art history faculty, or otherwise as approved by the Graduate Coordinator of the Art History Major. Students forming the thesis committee download the relevant form at <http://www.arts.usf.edu/absolutenm/articlefiles/20-GradComApptFrm.pdf>. Students are responsible for collecting committee members' signatures. The M.A. Graduate Coordinator must authorize all committee assignments with his/her signature.

While moderate in length and considerably more limited in scope than a doctoral dissertation, the M.A. thesis must demonstrate the student's ability to do original, independent research of publishable quality. The thesis should be approximately 35-40 typed pages of text – the usual length of a journal article -- excluding notes, bibliography, illustrations or other materials. When submitting drafts of the thesis to committee members, students must allow faculty members two weeks to read any given version. Remember that first drafts will have to be extensively revised several times before the thesis is accepted. Faculty are not normally available during the summer to read thesis drafts. The thesis committee must approve the final thesis before the student may schedule a date for the M.A. thesis defense. The examining committee will consist of the thesis committee and at least two additional questioners who are chosen by the student in consultation with the thesis committee. Students should keep in mind that the questioners must also be allowed two weeks



to read the draft of the thesis after it is accepted for the defense by the thesis committee. The oral defense is open to the public. No defenses are scheduled during the summer. Immediately after the orals, the examining committee meets to determine whether the student has passed the oral examination and whether the thesis is acceptable in its current form.

NOTE: It is usually necessary to make some changes in the thesis after the oral defense. Allow at least one week between the oral exam and the Office of Graduate Studies deadline so that you will be able to make the changes.

Ideally, the student will complete the thesis and submit it in the fourth semester. It is the student's responsibility to stay abreast of Office of Graduate Studies deadlines and registration requirements in the final semester. Check with the USF Office of Graduate Studies for specific deadlines and requirements for the M.A. thesis and graduation. These are available online at <http://www.grad.usf.edu/ETD-res-main.php>. All theses must be submitted electronically.

- ART 6971 Thesis: Master's **Credit Hours: 2-19**
6 hours minimum

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Art, M.F.A.

Priority Admission Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: The Arts

Department: School of Art and Art History

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources: www.art.usf.edu

The nationally ranked MFA Degree Program in Art has been carefully designed as a course of study that will maximize the student's potential for in depth investigation of his or her chosen artistic ideas, themes and /or media. Students are encouraged to acquire technical and conceptual skills in more than one medium or studio discipline and to work toward developing techniques that best communicate the content of their artistic pursuits.

Accreditation:

Accredited by the National Association of Schools of Art and Design.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- A Bachelor's degree or equivalent from an accredited university or art school
- Approved portfolios are required for admission into the M.F.A. Art Major
- Transfer Credits: Requests for use of transfer credits or credits earned under non-degree seeking student status should be made when the student applies to the graduate major. The faculty will decide at the time of admission whether or not transfer credits and credits earned will be used toward the requirements for the M.F.A. degree. Transfer credit and credit earned as a non-degree seeking student to be used toward the students' M.F.A. degree is limited to 8 semester hours.

Curriculum Requirements

Total Minimum Hours: 60 Credit hours

- **Core - 9 Credit hours**
- **Additional Required Courses - 8 Credit hours**
- **Electives - 41 Credit hours**
- **Research Project - 2 Credit hours**

Core Requirements (9 hours)

- ART 6895 Graduate Seminar I **Credit Hours: 3**
- ART 6896 Graduate Seminar II **Credit Hours: 3**
- ART 6816 MFA Professional Practices **Credit Hours: 3**



Additional Required Courses (8 hours)

- ARH 6798 Seminar in Art History **Credit Hours: 4**
Taken as **Critical Perspectives in Contemporary Art** Credit Hours
- ARH 6055 Art History **Credit Hours: 1-4** (4 Credit hours required for this program) **OR** ARH 6798 Seminar in Art History Credit Hours: 4 - taken with a different topic

Electives (41 Credit Hours)

- ART 5000 and 6000 Studio and Discretionary Electives
- ART 6937 Graduate Instruction Methods **Credit Hours: 1-4** (This course is an elective option for students who have not worked as a Teaching Assistant.)

Other Requirements

The School of Art and Art History highly recommends that all students seeking an advanced degree in Art take a minimum of one course in Electronic Media.

The remainder of the major is discretionary and is designed by the student with the guidance of the Graduate Art Advisor.

Directed Studies

As part of the student's studio and discretionary electives, he/she may register with a faculty member under a Directed Study Contract. All M.F.A. students are required to take coursework for a grade until they have formed their Supervisory Committees.

The descriptions for Directed Study are as follows:

- ART 6940 Selected Topics in Art, Grading option Regular (For a grade), 1-4 credits
Suitable for coursework by contract in an area in which the student has prior skill.
- ART 5910 Research, Grading option Regular (For a grade), 1-4 credits
Suitable for coursework by contract in an area in which the student has little or no prior skill.
- ART 6907 Independent Study, Grading option S/U, 1-19 credits.
Suitable for graduate level coursework in any area for which the student does not wish a letter grade, or which justifies more than 4 hours of credit. May be used only after the student's Supervisory Committee is formed. (See S/U Grades)
- ART 6911 Directed Research, Grading option Regular (For a grade) 1-19 credits.
Suitable for graduate level coursework in any area that justifies more than 4 hours of credit. May be used only after the student's Supervisory Committee is formed.

As noted, ART 6907 and ART 6911 are not for use by M.F.A. students who have not yet established their Supervisory Committees. The other, media specific, course numbers such as Sculpture or Painting are not often used as they are fixed at 4 credit hours.

S-U Grades

A Student may not take any course work for a grade of "S/U" until they have elected a supervisory committee, usually by the fourth semester. All course work taken during the first three semesters must be taken in course work assigning letter grades that designate quality points. Appropriate contract numbers would include graduate level studios such as Sculpture or Painting, and ART 5910 Research for an area in which a graduate student did not have prior skill, or ART 6940 Selected Topics in Art for studies in an area where prior skill exists but the student requires variable credit or the research does not conform to clear categorization by discipline. ART 6907 Independent Study offers the S/U grading option and is not to be used until after the student has elected a supervisory committee.



Faculty Evaluations

Faculty Evaluations at the end of first, second, and third semesters

At the end of the first, second and third semesters, students will receive a written evaluation from a faculty committee regarding their progress in the major based on a presentation of their work. A student receiving "unsatisfactory" evaluation for any two of these three semester reviews will be dropped from the major. The full faculty will review a student with two unsatisfactory evaluations before they can be dismissed from the major.

M.F.A. Research Project Proposals

During the fourth semester students will present a proposal for their MFA Research Project. The student must form and meet with their Graduate Supervisory Committee before the conclusion of their second year. The student must present a body of work and written paper supporting the student's proposed direction.

If a student's proposal is satisfactory, he/she will select a graduate Supervisory Committee to oversee the realization of the research project. If a student's project proposal is not satisfactory, another proposal can be presented before the end of the fourth semester. If the student's proposal and re-proposal are voted unsatisfactory the student will be dismissed from the major.

M.F.A. Research Project (2 hours)

Exhibition/Orals/Written Document

The exhibition, written document and the orals defense conclude the student's graduate major and take place after all course work is completed. The exhibition is usually during the term the student plans to graduate, typically the second semester of the third year. M.F.A. Research Project exhibitions cannot be scheduled for the summer term. Information regarding the exhibition, the written document and the orals defense will be distributed to students prior to the final semester.

- ART 6956 MFA Research Project **Credit Hours: 2-19**
2 hours minimum required



School of Music

Major



Music Education, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered fully online.

Contact Information

College: The Arts

Department: School of Music

Contact Information: <http://www.grad.usf.edu/majors>

The M.A. degree at USF is intended for the currently practicing music educator who wishes to increase their understanding of informal learning and learner-centered pedagogies. This major also empowers students to become action researchers and thoughtful consumers of research in music education.

Accreditation: National Association of Schools of Music (N.A.S.M.).

Major Research Areas:

Alternate Methods, Community Collaboration, Contemporary Changes, Early Childhood, General Music, International Perspectives, Multicultural Issues, Technology, Teacher Behaviors, Philosophy, Psychology, Sociology.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- The Graduate Record Examination (GRE) is not required.
- An official **Transcript** for a completed undergraduate degree in music (from an accredited program) is required with the application.
- The GPA for all music, music education, and education courses included in the undergraduate degree must be at least 3.00.
- A Résumé
- A minimum of two (2) current **Letters of Recommendation** from people qualified to speak on behalf of the applicant's professional capabilities must accompany the application.
- At least two years of K-12 music teaching experience, or the equivalent, are required.
- However, final approval for admission must be granted by the music education faculty.

International students must include copies of graduation **Certificates** and/or **Diplomas** (in addition to official transcripts) with their applications.

It is important to enroll in the term of admission. If postponement is necessary, you should request that your application be updated for the term when you will register for classes.

Curriculum Requirements

Total Minimum Hours - 30

- **Core - 21 Credit hours**



- **Electives - 9 Credit hours**

Core Requirements (21 hours)

- MUE 6428 Learner-Centered Approaches in Music Education I **Credit Hours: 6** (alternative calendar)
- MUE 6785 Research Design and Methods in Music Education **Credit Hours: 3**
- MUE 6787 Literature Review in Music Education **Credit Hours: 3**
- MUE 6789 Research Report Writing in Music Education **Credit Hours: 3**
- MUE 6429 Learner-Centered Approaches in Music Education II **Credit Hours: 3**
- MUH 6376 The History of Blues and Rock **Credit Hours: 3**

Electives (9 Credit Hours)

Any graduate level music courses or course related to the student's research interests.

The responsibility for seeing that all graduation requirements are met rests with the student.

Comprehensive Exam

The submission of an action research project final report will be the Comprehensive Examination.

Final recommendation with signatures presented to Graduate Director of Graduate Studies in Music



Music, M.M.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Chamber Music (*Piano and Strings only*)
Choral Conducting
Composition
Electro-Acoustic Music
Instrumental Conducting
Jazz Composition
Jazz Performance
Performance
Piano Pedagogy
Theory

Contact Information

College: The Arts

Department: School of Music

Contact Information: <http://www.grad.usf.edu/majors>

Music Faculty, Alumni, and Students

Perhaps the most compelling reason to study music at the University of South Florida is the opportunity to work with our superb music faculty. These gifted, dedicated artists/scholars are among the preeminent leaders in their fields and have been carefully chosen for their professional training, excellence in musical performance and research, and pedagogical expertise. They are featured on many professional recordings and appear in prestigious concert venues around the world. Their compositions are premiered globally. Their scholarship is published in the leading research journals, books, and monographs in their disciplines. The School of Music also invites guest composers, conductors, and performing musicians to enhance its performances and to provide master classes, symposia, and clinics for students and the public. Many USF music alumni are currently performers in a variety of concert settings and successful teachers in public schools, colleges, and universities around the country in a variety of concert settings. The School of Music at USF offers the student the opportunity to study with distinguished faculty and to be in the company of other superior music students for an exciting and exacting period of study.

The Master of Music degree provides students with an opportunity to pursue intense, focused study in their music specialty, coupled with a vigorous, balanced curriculum in music theory, music literature, and electives. Students in this major are mentored expertly by senior faculty and exhibit mastery of their specialty at the end of the course of study by way of appropriate capstone experiences, including recitals or theses and comprehensive examinations. The provisions and balance of these experiences comport precisely with the curriculum guidelines required by the National Association of Schools of Music.

Accreditation:

Full member, National Association of Schools of Music (NASM)

Major Research Areas:

Chamber Music, Composition, Conducting, Jazz Studies, Music Performance, Music Theory, Pedagogy, Electronic Music,



Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Successful auditions and/or interviews are required for acceptance into chamber music, conducting, electro-acoustic music, performance, pedagogy, and theory concentrations. Approved portfolios are required for acceptance into composition (jazz or traditional).
- Diagnostic tests in music theory and history must be taken before classes begin in the first semester. Based upon the scores, the music faculty may require remediation in one or both areas of study in order to qualify the student for permission to enroll in certain courses. Graduate review courses are offered each fall semester.
- The Graduate Record Examination (GRE) is not required.
- Students who do not enroll in the semester for which they applied and were admitted must receive permission from the Director of Graduate Studies in music to enroll in courses in the following semester(s). This procedure is to determine the availability of applied and academic courses in music.
- An official undergraduate Transcript for a completed undergraduate degree in music (from an accredited program) is required with the application.
- The GPA for all music courses included in the undergraduate degree must be at least 3.00 International students must include copies of graduation Certificates and/or Diplomas (in addition to official transcripts) with their applications.

Curriculum Requirements

Total Minimum Hours 30 credit hours

- **Core courses - 6 credit hours**
- **Additional required courses - 3 credit hours**
- **Concentrations - 10 credit hours minimum**
- **Electives - 4 credit hours minimum (some concentrations require more to meet minimum hours required for the degree)**
- **Final Project/Thesis - 2 credit hours minimum (if required)**

Diagnostic Music Tests taken prior to classes in first term. Students may be required to enroll in a remedial history and/or theory course as a consequence of their scores.

Core Requirements (6 Credit Hours Minimum)

- MUS 6793 Techniques of Research in Music and Music Education **Credit Hours: 3**
- MUM 6006 Contemporary Music Career Issues **Credit Hours: 3**

Additional Required Courses (3 Credit Hours Minimum)

In addition, students in all concentrations must choose one (1) of the following seven (7) courses.

- MUL 6375 Twentieth Century Music Literature **Credit Hours: 3 ***
- MUL 6505 Symphonic Literature **Credit Hours: 3**
- MUH 6057 Intercultural Music in the 20th and 21st Centuries **Credit Hours: 3**
- MUT 6545 Analysis of 18th and 19th Century Music **Credit Hours: 3**
- MUT 6575 Analysis of Twentieth Century Music **Credit Hours: 3**
- MUT 6586 Critical Analysis-History **Credit Hours: 2**
- MUT 6665 Seminar Jazz Styles and Analysis **Credit Hours: 2**



Concentration Requirements

Students select from the following Concentrations:

Chamber Music (18 Credit Hours)

- MVK or MVS 6### - Applied Studio **Credit(s): 8** (4 credits; taken two terms) (for piano and string students, only)
- MUS 5905 Directed Study **Credit Hours: 1-4 (6 credits for this program)** (Chamber Music Ensemble)
- MUL 6565 Chamber Music Literature **Credit Hours: 2**
- MUS 6976 Graduate Recital **Credit Hours: 2** (Chamber Music, only)

Must Include:

1. Major standard sonata
2. Major standard work for 3 or more instruments
3. Major contemporary chamber work for 2 or more instruments

Scholarship Requirement for Piano: STUDIO ACCOMPANYING

Scholarship Requirement for Strings: USF ORCHESTRA

Choral Conducting (21 Credit Hours)

- MUG 6205 Advanced Choral Conducting **Credit Hours: 2 (8 credits for this program)** (2 credits; taken four terms; variable content)
- MUG 6930 Advanced Choral Techniques **Credit Hours: 3**
- MUL 6655 Choral Literature 1500-1800 **Credit Hours: 3**
- MUL 6656 Choral Literature 1800-present **Credit Hours: 3**
- MUN 6XXX - Ensemble **Credit(s): 2** (1 credit; taken two terms)
- MUS 6976 Graduate Recital **Credit Hours: 2**

Electro-Acoustic Music (14 Credit Hours)

- MUC 6444 Electronic Music/Analog/Digital Systems Research I **Credit Hours: 3**
- MUC 6445 Electronic Music/Analog/Digital Systems Research II **Credit Hours: 3**
- MUS 5905 Directed Study **Credit Hours: 1-4 (6 credits for this program)** (3 credits; taken two terms) (Computer Music Research)
- MUS 6976 Graduate Recital **Credit Hours: 2**
or
- MUS 6971 Thesis: Master's **Credit Hours: 2-19 (2 credits for this program)**

Instrumental Conducting (23 Credit Hours)

Conducting (8 Credit Hours):

**may be taken twice*

- MUG 6307 Advanced Wind Conducting I **Credit Hours: 2**



- MUG 6308 Advanced Wind Conducting II **Credit Hours: 2 ***
- MUG 6309 Advanced Orchestral Conducting I **Credit Hours: 2**
- MUG 6315 Advanced Orchestral Conducting II **Credit Hours: 2**

Literature (3 Credit Hours)

Choose one:

- MUL 6555 Band/Wind Ensemble Literature **Credit Hours: 3**
- MUL 6505 Symphonic Literature **Credit Hours: 3**

Ensembles (4 Credit Hours)

Any MUN Ensemble Course

Graduate Recital (2 Credit Hours)

- MUS 6976 Graduate Recital **Credit Hours: 2**

Jazz Composition (16 Credit Hours)

- MUC 6626 Jazz Composition **Credit Hours: 4 (8 credits for this program)** (4 credits; taken two terms)
- MUC 6930 Seminar in Jazz Compositional Styles **Credit Hours: 2 (4 credits for this program)** (2 credits; taken two terms)
- MUN 6--- Ensemble **Credit(s): 2** (1 credit; taken two terms)
- MUS 6976 Graduate Recital **Credit Hours: 2**
- MUT 6665 Seminar Jazz Styles and Analysis **Credit Hours: 2** is required for Jazz Composition and Jazz Performance Concentrations

Jazz Performance (16 Credit Hours)

- MVJ 6--- Applied Jazz **Credit(s): 8** (4 credits; taken two terms)
- MUT 6665 Seminar Jazz Styles and Analysis **Credit Hours: 2 (4 credits for this program)** (2 credits; taken two terms) - this course is required for Jazz Composition and Jazz Performance Concentrations
- MUN 6XXX - Ensemble **Credit(s): 2** (1 credit; taken two terms)
- MUS 6976 Graduate Recital **Credit Hours: 2**

Music Composition (10 Credit Hours)

- MUC 6251 Composition **Credit Hours: 4 (8 credits for this program)** (4 credits; taken two terms)
- MUS 6976 Graduate Recital **Credit Hours: 2**
or
- MUS 6971 Thesis: Master's **Credit Hours: 2-19** (2 Credit Hours) (Oral Defense)

Music Performance (12 Credit Hours)

- MV? 6--- Applied Studio **Credit(s): 8** (4 credits; taken two terms)



- MUN 6--- Ensemble **Credit(s): 2** (1 credit; taken two terms)
- MUS 6976 Graduate Recital **Credit Hours: 2**

Piano Majors must include:

- MUL 6410 Keyboard Repertory I **Credit Hours: 2** (Fall)
- MUL 6411 Keyboard Repertory II **Credit Hours: 2** (Spring)

Music Theory (16 Credit Hours)

- MUT 6586 Critical Analysis-History **Credit Hours: 2**
- MUT 6575 Analysis of Twentieth Century Music **Credit Hours: 3**
- MUT 6629 Schenkerian Analysis **Credit Hours: 3**
- MUT 6751 Teaching of Music Theory **Credit Hours: 3**
- MUT 6760 History of Music Theory **Credit Hours: 3**
- MUS 6971 Thesis: Master's **Credit Hours: 2-19** 2 Credit Hours Minimum (Oral Defense required)

- MUT 6545 Analysis of 18th and 19th Century Music **Credit Hours: 3**
Students who did not take MUT 6545 as part of the Additional Required Courses must also complete it for this concentration.

Piano Pedagogy (16 Cedit Hours)

- MVK 5--- Applied Studio **Credit(s): 4** (2 credits; taken two terms)
- MUL 6410 Keyboard Repertory I **Credit Hours: 2** (Fall)
- MUL 6411 Keyboard Repertory II **Credit Hours: 2** (Spring)
- MVK 6650 Graduate Piano Pedagogy I **Credit Hours: 2**
- MVK 6651 Graduate Piano Pedagogy II **Credit Hours: 2**
- MUN 6--- Ensemble **Credit(s): 2** (1 credit; taken two terms)
- MUS 6976 Graduate Recital **Credit Hours: 2**

Electives (4 Credit Hours)

Students complete sufficient electives in addition to the core and concentration requirements to complete the minimum of 30 hours required for the major. Depending on the Concentration, this ranges from 4 to 11 hours of electives, but may be more depending on the student's course selections.

Courses are subject to change. Summer and online courses may be offered. All inquiries should be directed to the Director of Graduate Studies in Music.

Comprehensive Examination

Selection of Committee, including major professor (committee chair) and two other professors from varying concentrations in music with whom they have studied. One member must be from the academic area. The student and the committee must sign a contract available from the Director of Graduate Studies in Music at the beginning of the final term.

- Written Examination
 1. Collection of examination questions by chair from committee members



2. Presentation of questions to candidate with deadline of one week for completion (theory majors take a two-hour written examination.)
3. Candidate submits questions and answers to chair one week before oral examination
 - Oral Examination (meeting for candidate and committee members scheduled by chair)
 - Final Recommendation with signatures presented to the Director of Graduate Studies in Music

The course outlines below are mandatory for the respective fields of study. Secondary applied music courses may be taken in conjunction with MUS 6976 Graduate Recital, if two semesters of four-credit hour major study have already been completed.

Final Project/Thesis (2 Credit Hours Minimum)

(according to Concentration area)

- Composition(s) as required by composition faculty, or
- Recital (includes recital approval hearing one to two weeks in advance of recital), or
- Thesis (includes Oral Defense)

The responsibility for seeing that all graduation requirements are met rests with the student.

- MUS 6976 Graduate Recital **Credit Hours: 2**
- MUS 6971 Thesis: Master's **Credit Hours: 2-19** (2 Credit Hours Minimum for this program)



Music, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Music Education

Contact Information

College: The Arts

Department: School of Music

Contact Information: <http://www.grad.usf.edu/majors>

Financial Aid Deadlines: Contact Department for funding opportunities and deadlines.

The Doctor of Philosophy in Music is the highest degree in the field. At the University of South Florida, this major is offered with a Concentration in Music Education, which is designed to develop leaders in music education research, teaching, and administration. The curriculum prepares the student to engage in original research in music education and related fields (arts education, music technology, aesthetics, philosophy, cognitive development, creativity, social psychology, neuropsychology, engineering, gerontology, speech and communication sciences, special and gifted education, etc.). In coordination with faculty mentors, the student has great flexibility in designing a program of study that fits his/her interests and strengths. A limited number of fellowships and assistantships are available for qualified students.

Music Education Concentration in the Ph.D. in Music

Studies in the Ph.D. major varies, depending on individual interests and needs. All applicants are expected to have two or more years of teaching experience in a public or private school (or its equivalent). A dissertation and dissertation defense are required. The Ph.D. degree empowers students to become scholarly producers of research in music education.

Music Faculty, Alumni, and Students

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Accreditation:

National Association of Schools of Music (N.A.S.M.); National Council for Accreditation of Teacher Education (N.C.A.T.E.)

Major Research Areas:

Alternative Methods, Community Collaboration, Contemporary Changes, Creativity, Early Childhood, General Music, International Perspectives, Multicultural Issues, Philosophy, Psychology, Sociology, Teacher Behaviors, Technology, and Lifelong Learning in Music



Admission Information

Doctoral applicants are encouraged to contact the Graduate Coordinator of the Doctoral Major, as early as possible.

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Official Application to the USF Office of Graduate Studies for the Ph.D. in Music with a concentration in Music Education
- Master's degree from an accredited institution. Official undergraduate and graduate transcripts must be received at the same time as the application for admission. Credits to be considered for transfer to this major, which are reflected on other transcripts besides the degree-bearing transcripts, must also be sent for consideration by the faculty.
- Minimum GPA of 3.50 for master's degree.
- GRE General Test required.
- Successful interview with the music education faculty, either in person or by other arrangement. **Prior to the interview**, the following must be reviewed by the music education faculty:
 - At least three letters of recommendation from people qualified to speak on behalf of the applicant's academic and professional capabilities.
 - Sample of the applicant's best academic writing.
 - Curriculum vita.
 - 15-20 minute video recording of the applicant teaching music.
 - Personal goal statement.

International students must include copies of graduation **Certificates and Diplomas** (in addition to official transcripts) with their applications

Curriculum Requirements

Total Minimum Hours – 60 (post-masters)

- **Core - 6 Credit Hours**
- **Concentration - 16 Credit Hours Minimum**
- **Cognate - 9 Credit Hours**
- **Statistics and Measurement - 11 hours**
- **Dissertation - 16 hours**
- **Remaining two hours selected with advisor. Typically this coursework is in the Concentration or Dissertation Credits.**

The responsibility for seeing that all graduation requirements are met rests with the student.

Core Requirements (6 Credit Hours)

- MUE 7815 Social Psychology of Music **Credit Hours: 3**
- MUE 7835 Philosophical and Historical Issues in Music Education **Credit Hours: 3**

Music Education Concentration (16 Credit Hours Minimum)

- MUE 7746 Measurement and Evaluation in Music **Credit Hours: 3**
- MUE 7786 Qualitative Methods of Music Education **Credit Hours: 3**
- MUE 7816 Music Cognition **Credit Hours: 3**
- MUE 7939 Center for Music Education Research Seminar **Credit Hours: 1-2** (*five to seven semesters*) (*5 credits in this program - minimum*)*
- MUE 7935 Seminar on Music in Higher Education **Credit Hours: 2**



*students who complete 7 hours of MUE 7939 then take 16 hours of MUE 7980 ; students who complete 5 hours of MUE 7939 take 18 hours of MUE 7980

- MUE 7937 Special Topics in Music Education **Credit Hours: 2-3 (3 credits for this program)** *may replace one of the specialization courses except for courses in the core and MUE 7939 and MUE 7935 .*

Cognate (9 Credit Hours)

Choice of graduate courses in music (normally outside music education) and/or from fields related to music and/or education. All cognate courses are to be associated with a particular topic approved by the advisor.

Statistics and Measurement (11 Credit Hours)

- EDF 6407 Statistical Analysis for Educational Research I **Credit Hours: 4**
- EDF 7408 Statistical Analysis for Educational Research II **Credit Hours: 4**
- EDF 7410 Design of Systematic Studies in Education **Credit Hours: 3**

Comprehensive Qualifying Exam

The Comprehensive Qualifying Exam consists of a written component and an oral component. The written component is an open-book exam, in which the student writes four article-length papers in eight weeks. The oral component consists of a meeting with the exam committee, discussing each of the four papers.

Dissertation (16 Credit Hours Minimum)

- MUE 7980 Dissertation **Credit Hours: 2-19 (16 credits minimum in this program)**



Morsani College of Medicine

Morsani College of Medicine

MD - Programs

University of South Florida
Morsani College of Medicine
12901 Bruce B. Downs Blvd. MDC40
Tampa, FL 33612-4799

Web address: www.health.usf.edu/medicine/graduatestudies

Email: biomed@health.usf.edu

Phone: 813-974-4181

Fax: 813-974-4317

Dean, Morsani College of Medicine — Charles Lockwood, MD, MHCM
Vice Dean, Educational Affairs — Bryan Bognar, MD MPH, FACP
Sr. Associate Dean, Office of Graduate Affairs — Robert Deschenes, PhD
Associate Dean, MS Programs — Michael Barber, DPhil
Associate Dean, PhD and Postdoctoral Programs — Michael Teng, PhD
Sr. Associate Dean, Academics & Institutional Effectiveness — TBA

Mission Statement:

The Morsani College of Medicine Graduate Faculty consist of scientists who conduct research in many fields of science basic to understanding disease processes and to the development of improved methods of diagnosis, treatment and prevention of disease. Students receive their research training in up-to-date methods of scientific investigation and gain experience in modern well-equipped laboratories. The faculty is dedicated to providing high quality education in an environment conducive to scholarly activity and scientific achievement.

Candidates for the Ph.D. in Medical Science enter into an interdisciplinary major enabling them to select any one of the concentrations that are offered. Collaboration among laboratory scientists of all disciplines is encouraged. The programs of study allow students to tailor their majors to individual needs and interests. Thanks to faculty research awards, students have a multitude of opportunities to participate in cutting-edge research projects. Medical Science Ph.D. graduates go on to become deeply involved in research sponsored by academic, industrial and government institutions

The master's degree in Medical Sciences (M.S.M.S.) can be completed in as little as one year and has been designed to assist students who are seeking admissions into doctoral degree programs (Ph.D. or M.D.). Successful graduates of the Medical Science master's degree program can improve their chances for admissions into professional programs by further developing their foundational knowledge of biomedical science. Currently, the Medical Sciences master's degree program boasts a ninety percent success rate for adequately preparing students for entry into doctoral or professional majors. Financial Aid - A limited number of assistantships, fellowships, and tuition waivers are available for doctoral students.

Major Research Areas:

Allergy, Immunology and Infectious Diseases Cancer Biology, Cardiovascular Research, Neuroscience Research



Dean's Office

Major



Physician Assistant Studies, M.P.A.S.

Priority Admission Application Deadlines: www.grad.usf.edu/majors

Spring: April - (Contact department for exact date)

Contact Information

College: Morsani College of Medicine

Department: Physician Assistant Program

Contact information

www.health.usf.edu/medicine/pa/

The goal of the USF PA Major is to prepare its graduates to deliver high-quality, evidence-based, patient-centered health care. This is accomplished through a robust, systems-based curriculum. The major (delivered over 24 continuous months) begins with a rigorous 12-month phase in basic and medical sciences. Educational methodologies include traditional lecture, clinical simulation, team-based problem solving, and hands-on laboratory learning experiences – often delivered with students from other USF health students. The 12-month clinical phase follows and students engage in approximately 2300 hours of supervised clinical practice experiences. Students will participate in the following five week, core clinical clerkships: Internal Medicine, Family Medicine, Pediatrics, Surgery, Emergency Medicine, Women's Health, Behavioral and Mental Health, and two elective clerkships. Upon successful completion of the two-year curriculum, the student is awarded the Master of Physician Assistant Studies degree. The graduate is then eligible to sit for the Physician Assistant National Certifying Exam (PANCE) administered by the National Commission on Certification of Physician Assistants (NCCPA).

Accreditation

The ARC-PA has granted Accreditation - Provisional status to the USF Morsani College of Medicine Physician Assistant Program sponsored by the University of South Florida. Accreditation-Provisional is an accreditation status granted when the plans and resource allocation, if fully implemented as planned, of a proposed major that has not yet enrolled students appear to demonstrate the degree program's ability to meet the ARC-PA Standards or when a program holding Accreditation-Provisional status appears to demonstrate continued progress in complying with the Standards as it prepares for the graduation of the first class (cohort) of students.

Accreditation-Provisional does not ensure any subsequent accreditation status. It is limited to no more than five years from matriculation of the first class.

Admission Information

All applicants to the USF MCOM PA major must apply through the Central Application Service for Physician Assistants (CASPA). Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

Degree, GPA and GRE

- Baccalaureate degree from an accredited College or University. Baccalaureate degrees must be completed by the end of fall semester prior to matriculation (this means you must have graduated or be eligible to graduate no later than the end of December, or earlier)
- Baccalaureate Degree and prerequisite coursework taken outside of the U.S. is not accepted (regardless if made equivalent by a U.S. institution).
- Prerequisite coursework must be taken at a U.S. regionally accredited College or University.
- Minimum overall GPA of 3.00 and Science GPA of 3.00 to be considered



- Meeting the minimum GPA requirements does not guarantee an interview or admission. See the Application Process page for Interview Selection Process.
- USF PA Program utilizes the GPA's as calculated by CASPA. We do not recalculate GPA's. For information regarding CASPA's GPA calculation, please contact CASPA.
- Graduate Record Examination (GRE) Test is required– official scores are required and must be from tests taken within the past five years.
- GRE Scores are to be sent directly to CASPA. The Univ South Florida PA Prgm CASPA GRE code 8854. (DO NOT use USF institution code of 5828).
- GRE scores are due in your application no later than the program's application deadline date. Check the Application Timeline page for this date.
- Transfer credit or Admission with Advanced Standing from another PA major is not accepted. All curriculum requirements for the major are required for graduation and must be completed at the USF PA major.

Prerequisites Coursework

- CLEP (College Level Examination Program), AP (Advanced Placement), IB (International Baccalaureate), ACE Credit (American Council on Education), and AICE (Advanced International Certificate of Education) course credit may not be used or substituted to meet prerequisite requirements.
- Prerequisite coursework must be completed at an accredited College or University.
- Prerequisite coursework must be completed by the end of the fall semester prior to matriculation.
- The courses listed below are required for consideration and admission into the USF PA program:
 - Microbiology with laboratory - 1 Semester (or semester hour equivalent)
 - One other Biology course - 1 Semester (or semester hour equivalent)
 - *Organic Chemistry with laboratory - 1 Semester (or semester hour equivalent)
 - Organic Chemistry II OR Biochemistry – 1 Semester (or semester hour equivalent)
 - Human Anatomy and Physiology with laboratory - 2 Semesters (or semester hour equivalent)
 - Statistics - 1 Semester (or semester hour equivalent)
 - Medical Terminology - 1 Semester (or an on line certificate course)

Note:*Chemistry laboratory can be taken with either Organic Chemistry I, Organic Chemistry II or Biochemistry. Laboratories may be part of the main course or can be taken separately.

- Dual enrollment course credits from an accredited college or university are acceptable for prerequisites.
- Courses designed for non-science majors will not be accepted.
- Transfer credit or Admission with Advanced Standing from another PA, MD, or other graduate program is not accepted. All program curriculum requirements are required for graduation and must be completed at the USF PA program.
- Veterans are encouraged to apply, and as all other applicants, must meet all the prerequisites for admissions. Veterans with questions regarding prerequisite course work should contact the PA program. Please provide a copy the Joint Services Transcript with course descriptions to determine if the course in question satisfies the prescribed prerequisite. USF MCOM has an account with JST to receive transcripts.

Experience in Healthcare Setting

- A minimum of 500 hours of direct patient care experience in a health care setting must be completed prior to application.
- Hands-on patient care experiences may come from a variety of places. The extent to which an applicant is actually involved in patient care will be weighed based on the description of the applicant's duties during those hours. The title of a position is not as important as the duties the applicant performed in terms of patient contact and interaction with the patients and other healthcare providers (physicians, PAs, nurses, etc.)
- Example as of direct patient care experiences may include, but are not limited to EMT, paramedic, medical assistant, scribe, patient care tech, nurse, surgical tech, athletic trainer, physical therapy aide, etc.
- Applicants will submit verifiable information regarding their health care experiences on CASPA.
- Shadowing experiences are not accepted as direct patient care.

Letters of Recommendation



- Three letters of recommendation are required.
- Letters should be from Physicians, Physician Assistants, Nurse Practitioners, Research Mentors, Professors, Volunteer Coordinators/Supervisors who had direct interaction with the applicant and can attest to his/her qualities, strengths and suitability for a career as a Physician Assistant.
 - One letter of a recommendation must be from someone who supervised the applicant in a clinical setting.
 - Letters should not be from a peer or family member.

Residency

- U.S. Citizen or Permanent Resident Alien
 - Permanent Resident Alien must possess a valid Green Card at the time of application. Documentation will be required.
- In State or Out of State for tuition purposes
 - To qualify for in state tuition, proof of residency for the 12 months preceding matriculation is required.
 - For more information, please visit our General Classifications Procedures page.

Curriculum Requirements:

Total minimum hours required: 90 hours post-baccalaureate

- **Core Requirements - 89 Credit Hours**
- **Comprehensive Exam (Capstone Research Project) - 1 Credit Hour**

Core Requirements (89 Credit Hours)

- PAS 6022 Anatomy with Lab I **Credit Hours: 2**
- PAS 6024 Anatomy with Lab II **Credit Hours: 2**
- PAS 6028 Pathophysiological Basis of Disease I **Credit Hours: 3**
- PAS 6011 Clinical Medicine I **Credit Hours: 5**
- PAS 6023 Clinical Pharmacology I **Credit Hours: 3**
- PAS 6026 Clinical Pharmacology II **Credit Hours: 3**
- PAS 6036 Physical Diagnosis I **Credit Hours: 2**
- PAS 6037 Physical Diagnosis II **Credit Hours: 2**
- PAS 6050 Role of the Physician Assistant in American Healthcare **Credit Hours: 1**
- PAS 6030 Clinical Laboratory and Diagnostics I **Credit Hours: 2**
- PAS 6032 Clinical Laboratory and Diagnostics II **Credit Hours: 1**
- PAS 6029 Pathophysiological Basis of Disease II **Credit Hours: 3**
- PAS 6012 Clinical Medicine II **Credit Hours: 5**
- PAS 6021 Biostatistics and Epidemiology **Credit Hours: 1**
- PAS 6002 Cultural Issues in Healthcare **Credit Hours: 1**
- PAS 6033 Clinical Medicine III **Credit Hours: 8**
- PAS 6039 Advanced Clinical Pharmacotherapeutics **Credit Hours: 3**
- PAS 6007 Clinical Skills and Procedures **Credit Hours: 2**
- PAS 6013 Evidence-Based Medicine **Credit Hours: 1**
- PAS 6005 Behavioral Medicine **Credit Hours: 2**
- PAS 6035 Basic Medical Genetics **Credit Hours: 1**
- PAS 6100 Internal Medicine Clinical Rotation **Credit Hours: 4**
- PAS 6125 Behavioral and Mental Health Clinical Rotation **Credit Hours: 4**
- PAS 6200 Surgery Clinical Rotation **Credit Hours: 4**
- PAS 6300 Pediatrics Clinical Rotation **Credit Hours: 4**



- PAS 6400 Family Medicine Clinical Rotation **Credit Hours: 4**
- PAS 6500 Women's Health Clinical Rotation **Credit Hours: 4**
- PAS 6600 Emergency Medicine Clinical Rotation **Credit Hours: 4**
- PAS 6940 Selective Clinical Rotation **Credit Hours: 4** (taken twice for a total of 8 Credit Hours)

Comprehensive Exam

The Capstone Research Project serves in lieu of the Comprehensive Exam.

Capstone Research Project (1 Credit Hour)

The major culminates in a required capstone research project. The goal of the capstone research project is to develop competency in the critical appraisal of research and the application of the best evidence to patient care, health policy, and advocacy; ultimately resulting in improved patient outcomes.

- PAS 6911 Physician Assistant Capstone Project **Credit Hours: 1** (1 credit hour for this program)

Non-Thesis

This major does not require a thesis.

Other

Upon graduation, the MPAS graduate will be eligible to sit for the Physician Assistant National Certifying Exam (PANCE) administered by the National Commission on Certification of Physician Assistants (NCCPA).

Graduate Certificate



Aging & Neuroscience Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Graduate Certificate in Aging and Neuroscience offers students the opportunity to do graduate-level study that focuses on Neuroscience, Aging and Brain Repair. Students study anatomy, physiology, pathology, and molecular biology of the nervous system, and how these disciplines relate to behavioral sciences and modern therapeutic advances.

The graduate certificate offers students flexibility in class scheduling and focused course work. Graduates will develop the specialized skills needed to work in research and/or clinical environments, in hospital, laboratory, industry, or university settings, where specialized knowledge of Neuroscience is required. In addition to medical residents, the certificate is also intended for students who are not yet committed to pursuing a graduate degree. It is anticipated that some students will apply for master's or Ph.D. degrees offered by USF's Health Science Center.

Course Location/Delivery

Partial

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (9 Credit Hours)

9-12 Cr. Hrs. (Exemption poss. w/ advanced standing)

- GMS 6706 Basic Medical Neuroscience **Credit Hours: 3**
- GMS 6771 Aging and Neuroscience **Credit Hours: 3**

Electives

Select 1 or more:

- GMS 6735 Neuropharmacology **Credit Hours: 3**



- GMS 6773 Stem Cells and Brain Repair **Credit Hours: 3**
- GMS 6201 Basic Medical Biochemistry **Credit Hours: 3**
- GMS 6440 Basic Medical Physiology **Credit Hours: 3**
- GMS 6772 The Spinal Cord: Development, Pathology and Therapy **Credit Hours: 3**
- GMS 6908 Medical Sciences Independent Study **Credit Hours: 1-3**

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Anatomy Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Graduate Certificate in Anatomy offers a thorough study in human anatomy using on-line & on-ground, traditional, hands-on and clinically-relevant learning tools. This certificate is targeted to students seeking to improve their academic credentials for future careers in biomedical careers or education.

Course Location/Delivery

Partially online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also have:

Letter of Interest, resume

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Courses in Gen. BYS, Gen CH, & Gen PH

Requirements of this Certificate (12 Credit Hours)

- GMS 6604 Human Structure and Function **Credit Hours: 3**
- GMS 6605 Basic Medical Anatomy **Credit Hours: 3**
- GMS 6630 Basic Medical Histology **Credit Hours: 3**
- GMS 6610 Advanced Neuroanatomy **Credit Hours: 3-6**

Electives

None

Time Limit

1 Year



Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Bioinformatics Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The rapid expansion of genomic information and the databases that contain various types of sequence and structural data has resulted in the field of bioinformatics, contributing an increasingly important role in the study of a diverse array of biological and biomedical problems. To solve these problems, more biological scientists and health and information professionals require familiarity with modern bioinformatics resources and protocols to perform their professional duties more efficiently and to gain additional insight into the applications of genomic information. The diverse array and magnitude of available genomic information challenges scientists to translate this data into new discoveries. Whether the need is academic or professional, familiarity with modern bioinformatics-based analyses has become an essential component of most genomic and proteomic studies. This certificate provides both biological scientists and information technologists with the necessary coursework for a broad understanding of the principles of bioinformatics and their application to different biological and biomedical problems.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also have:

- bachelor's degree in any of the biological sciences or information systems or computer science.
- Quantitative and qualitative skills as demonstrated by completion of courses in biology, chemistry and computer science.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Requirements of this Certificate (13 Credit Hours)

- GMS 7930 Selected Topics **Credit Hours: 1-3**
- GMS 6012 Basic Medical Genetics **Credit Hours: 3**
- GMS 7930 Selected Topics **Credit(s) 1-3**

Electives

- BSC 6932 Selected Topics in Biology **Credit Hours: 1-4**
or



- PHC 6050 Biostatistics I **Credit Hours: 3**

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Biotechnology Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The rapid explosion of genomic information available for a variety of prokaryotic and eukaryotic organisms has resulted in the interdisciplinary field of biotechnology contributing increasingly important roles in the study of a diverse array of biological, biomedical and engineering problems. To solve these problems, more biological and chemical scientists and engineers require familiarity with modern biochemical and molecular biology pathways, biotechnical applications and protocols to perform their professional duties more efficiently and to gain additional insight into the relevance and applications of biotechnology. The diverse array and magnitude of available biotechnology information challenges scientists to translate this data into new discoveries and applications in such areas as transgenic organisms, bioremediation, bioprocess development and the design of novel therapeutics. Whether the need is academic or professional, familiarity with modern biotechnology and recombinant DNA methods or molecular biological-based analyses has become an essential component of most biological-, biomedical- or bioengineering-oriented studies. This certificate provides both biological and chemical scientists and engineers with the necessary coursework for a broad understanding of the principles of biotechnology and their application to different biological, biomedical, chemical and engineering problems.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also have:

- Bachelor's degree from an accredited institution, or its equivalent, in the biological sciences and
 - Quantitative and qualitative skills as demonstrated by completion of courses in biology and chemistry.
 - GRE scores can also be used to demonstrate qualitative and quantitative skills.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Requirements of this Certificate (12 Credit Hours)

- GMS 7930 Selected Topics **Credit Hours: 1-3**
- GMS 7930 Selected Topics **Credit(s): 1-3**
- GMS 7930 Selected Topics **Credit(s): 1-3**

Electives



Select 5 Crs:

- BCH 6746 Structural Biology **Credit Hours: 3**
- BCH 6135C Methods in Molecular Biology **Credit Hours: 4**
- GMS 6847
- GMS 6012 Basic Medical Genetics **Credit Hours: 3**
- GMS 7939 Graduate Seminar **Credit Hours: 1**
- GMS 6943 Biotechnology Internship **Credit Hours: 3**

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Clinical Investigation Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

This Distance Learning Graduate Certificate in Clinical Investigation offers students the opportunity to do graduate-level study that focuses on clinical investigation and advanced study in the field of clinical research. This coursework is designed to support the development and implementation of a clinical research education program for patient-oriented research. The curriculum will provide knowledge related to biostatistics, epidemiology, research methodology and bioethics. Students receive a graduate certificate upon completing the program.

Courses offered in the graduate certificate at or above the 6000 level may be applied toward a Master's or Ph.D. program. The graduate certificate offers students flexibility in class scheduling and focused course work. Graduates will develop the specialized knowledge required in hospital, laboratory, industry, or university settings. It is anticipated that some students will apply for graduate Master's/Ph.D. degrees offered by USF Health at the University of South Florida. In addition to medical residents, the certificate is also intended for students who are not yet committed to pursuing a graduate degree.

Location/Delivery

Offered both online, or in traditional format at the Tampa campus.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements. A personal interview may be required.

Application Process

To learn about the application process, and to access the application, please review our application process.

In addition to your completed application form, transcripts, resume and letter of interest, you will need to submit the following documents:

- A two to three page essay.

Contact department for additional information.

Credit Toward Graduate Degree

Up to nine (9) hours, or three (3) courses of graduate certificate course credits at or above the 6000 level may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

The approximate time to complete the Certificate is two years.

Pre-Requisites



None

Curriculum Requirements (12 Credit Hours)

- PHC 6000 Epidemiology **Credit Hours: 3**
- PHC 6050 Biostatistics I **Credit Hours: 3**
- GMS 6183 Clinical Research Methods **Credit Hours: 3**

Students with advanced standing are required to take electives. If required, one or more electives may be chosen from those listed below as well as from courses being developed by USF Health.

All students select at least one of the following to meet the hours required for the Certificate:

- GMS 7939 Graduate Seminar **Credit Hours: 1**
- PHC 6930 Public Health Seminar **Credit Hours: 1-3**
- GMS 6843 Scientific Communication **Credit Hours: 2**
- GMS 6906 Grantsmanship II **Credit Hours: 1**
- BCH 6888 Bioinformatics **Credit Hours: 3**
- GMS 6849 Approach Clinical and Behavioral Research Adolescent: Focus on HIV **Credit Hours: 3**
- GMS 6875 Ethical and Regulatory Aspects of Clinical Research **Credit Hours: 2**
- NGR 6737 Ethical, Legal, and Policy Issues in Advanced Nursing Practice **Credit Hours: 3**
- GMS 6905 Grantsmanship I **Credit Hours: 1**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Entrepreneurship Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

The Graduate Certificate in Entrepreneurship, offered in an inter-disciplinary framework through the Center for Entrepreneurship in conjunction with the Colleges of Business Administration, Engineering, and Health Sciences, offers students the opportunity to do graduate-level study that focuses on the various aspects of Entrepreneurship. Students study the various areas of Entrepreneurship including identification of new technology opportunities, development of strategies to commercialize new innovations, critical skills in business planning for new ventures, various frameworks for new venture formation and development of financing strategies and frameworks to provide capital to create and grow new ventures and how these topics relate to knowledge and technology-based business opportunities. A particular focus will be provided for students interested in the entrepreneurial aspects of Life Sciences and Biotechnology businesses.

The graduate certificate offers students flexibility in class scheduling and focused course work. Graduates will develop the specialized skills needed to create and grow new business ventures and to work effectively in leadership roles in new business ventures as a part of an inter-disciplinary management team. In addition to Business and Engineering students, the certificate is also intended for graduate students from other disciplines who are interested in broadening their perspectives in entrepreneurship. Participation is open to all graduate students admitted to Graduate Studies at the University of South Florida.

Course Location/Delivery

USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (12 Credit Hours)

The following courses are crosslisted with the Muma College of Business and the College of Engineering.

- ENT 6016 New Venture Formation **Credit Hours: 3** OR EIN 6934 Taken as Technology Venture Strategies (3 Credit Hours)
- ENT 6116 Business Plan Development **Credit Hours: 3** OR EIN 6154
- ENT 6415 Fundamentals of Venture Capital and Private Equity **Credit Hours: 3** OR EIN 6934 taken as Venture Capital and Private Equity (3 Credit Hours)
- ENT 6186 Strategic Market Assessment **Credit Hours: 3** OR EIN 6934 taken as Strategic Marketing Assess (3 Credit Hours)



Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Health Informatics Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Some of today's fastest growing healthcare careers are in the field of health informatics. Today's health information professionals are expected to know how to harvest technological innovations and improve healthcare delivery and operations.

As hospitals, health insurers and pharmaceutical companies continue to onboard health informatics professionals, those who obtain proper education and training are more likely to realize the benefits of having multiple employment opportunities.

The Graduate Certificate in Health Informatics clears the path for quick entry into this field, one of the fastest-growing careers in healthcare.

Location/Delivery

This certificate is offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Can be completed in 8 months.

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- HIM 6217 Health Data Management **Credit Hours: 3**
- HIM 6667 Foundation in Management Information Systems **Credit Hours: 3**
- HIM 6118 Introduction to Health Informatics **Credit Hours: 3**
- HIM 6114 Integrated Electronic Medical Records **Credit Hours: 3**



Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Health Sciences Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

Modern advances in the basic biomedical sciences have had a tremendous impact on how illness and disease occur or can be prevented at the cellular or molecular level. Central to human disease diagnosis and therapy are a clear understanding of the underlying anatomical, biochemical, histological and neurological alterations and abnormalities that occur at the organ and cellular levels that contribute to these diseases. The disciplines of anatomy, biochemistry, histology and neuroscience are key fields in the advancement of both medical diagnostics and treatment and when combined with the emerging technologies of genomics, proteomics and pharmacogenomics, these topics have profound effects on the diagnosis, monitoring and treatment of many diseases that result from inborn errors in metabolism.

Major advances within the past few years in the fields of human genomics, molecular and cellular biology and the neurosciences have had a substantial impact on medical research and clinical care. Initially they were most successfully exploited for determining the causes of genetic diseases and how to control them.

However, it is now clear that a more integrated systems approach to both diagnosis and therapy is finding applications in almost every branch of medical practice. It is revolutionizing cancer research, offers new approaches to vaccine development, has spawned a biotechnology industry that is already producing a wide range of diagnostic and therapeutic agents and, in the longer term, promises to play a major role in clarifying the causes of some of the unsolved mysteries of modern medicine including heart disease, hypertension, psychiatric disorders, rheumatic disease and many others. It should also assist in gaining insights into broader aspects of human biology, including development, aging and evolution. Recently, the rapid explosion of available human genomic information has profoundly influenced the biomedical sciences.

More medical, biological and health-related practitioners require familiarity with the fundamental aspects of modern medicine that include basic human anatomy, the organization of the many biochemical pathways that control metabolism, tissue structure and neurological alterations to perform their professional duties more efficiently and to gain additional insight into the relevance and applications of modern healthcare practices. Whether the need is academic or professional, familiarity with the many aspects of the basic health sciences, has become an essential component of most biomedical-oriented studies. This certificate provides students with interests in the medical and biological sciences with the necessary coursework for a broad understanding of the principles of human anatomy, biochemistry, histology and neuroscience and their application to modern medical problems.

Course Location/Delivery

Online

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

GRE required for admission to Graduate Degree Program

Application Process

To learn about the application process, and to access the application, please review our application process.



Prerequisites

Yes

Requirements of this Certificate (12 Credit Hours)

- GMS 6201 Basic Medical Biochemistry **Credit Hours: 3**
or
- GMS 6706 Basic Medical Neuroscience **Credit Hours: 3**

Electives

Select 9 crs:

- GMS 6707 Medical Neuroscience **Credit Hours: 3-7**
- GMS 6320
- GMS 6012 Basic Medical Genetics **Credit Hours: 3**
- GMS 6141 Basic Medical Immunology and Microbiology **Credit Hours: 3**
- GMS 6440 Basic Medical Physiology **Credit Hours: 3**
- GMS 6111 Basic Medical Pathology **Credit Hours: 3**
- GMS 6505 Basic Medical Pharmacology **Credit Hours: 3**
- GMS 6605 Basic Medical Anatomy **Credit Hours: 3**

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Healthcare Analytics Graduate Certificate

Description

A SAS Approved Graduate Certificate in Healthcare Analytics from USF Health's Morsani College of Medicine positions you to enter one of healthcare's fastest-growing fields. The volume of digitized healthcare-related information has increased rapidly in recent years, and healthcare organizations need professionals who can analyze that data for improved patient outcomes and continuing advancements in healthcare delivery.

Course Location/Delivery

USF Tampa and online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Preferred bachelor's in Health Informatics, HIM or Computer Science, with a GPA of 3.00 or greater.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (12 Credit Hours)

- HIM 6930 Selected Topics in Health Informatics **Credit Hours: 1-3**
Introduction to Healthcare Analytics (3 Credit Hours) (Proposed HIM 6116)
- HIM 6628 Health Data Visualization **Credit Hours: 3**
- HIM 6623 Statistics for Healthcare Analytics **Credit Hours: 3**
- HIM 6655 Healthcare Data Mining and Predictive Analytics **Credit Hours: 3**

Time Limit / Average Time to Completion

Average time to complete: 2 years

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with department approval.

Contacts



Contact Information: <http://www.grad.usf.edu/cert>



Intellectual Property Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Certificate in Intellectual Property provides insight into the translation of scientific ideas and results into products or services and the legal restriction and protection of their uses. The protection of intellectual property serves as an incentive and reward from the huge amount of time and expenses that have to be invested to bring a new product to market, and only with such protection can the biotechnology industry grow and thrive.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

- GMS 6095
- ENT 6186 Strategic Market Assessment **Credit Hours: 3**
- GMS 6847
- EIN 6106 Technology and Law **Credit Hours: 3**

Time Limit

2 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.



Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Medicine & Gender Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Graduate Certificate in Medicine and Gender offers students the opportunity to do graduate-level study that focuses on topics of gender-specific medicine. Recently, there has been an increased awareness that gender-specific issues influence women's and men's health more broadly and with a higher impact than previously recognized. These differences are not limited to reproductive health, but extend to almost every other organ and tissue. Students will learn about common medical issues discussed in a gender context. Since females have been traditionally excluded from clinical trials, most of the available medical knowledge applies to men accurately but not to women. Over the past two decades, inclusion of women in clinical trials and the mandated testing of drugs on females has significantly increased the available knowledge of women's health. Data are also accumulating that show significant differences in male and female biology, physiology and drug pharmacology in almost every body organ and tissue. Prospective students: This certificate is intended for all students interested in women's health or gender-specific health issues. It is also intended for medical residents, health science professionals, and students who are not yet committed to pursuing a graduate degree. It is anticipated that some students will apply for master's or Ph.D. degrees offered by USF's Health Science Center.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

2-3 page essay

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Requirements of this Certificate (10 Credit Hours)

- GMS 7930 Selected Topics **Credit Hours: 1-3**
- GMS 7930 Selected Topics **Credit(s): 1 -3**

Electives

Select 4-7 hrs:

- GMS 6334 Pathobiology of Human Cancer **Credit Hours: 3**



- GMS 7930 Selected Topics **Credit Hours: 1-3**
- BCH 6935 Grant Writing and Scientific Communication **Credit Hours: 2**
- BCH 6411 Biomedical Genomics and Genetics **Credit Hours: 4**
- GMS 7910 Directed Research **Credit Hours: 1-19**
- GMS 7930 Selected Topics **Credit(s): 1-3**
- PHC 6532 Women's' Health Issues in Public Health **Credit Hours: 3**

Time Limit

2 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Pathology Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

The Graduate Certificate in Pathology offers a thorough study in human pathology using on-ground, traditional, hands-on and clinically-relevant learning tools. This certificate is targeted to students seeking to improve their academic credentials for future careers in biomedical careers or education.

Location/Delivery

USF Tampa

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Credit Toward Graduate Degree

Course credits earned in the certificate may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Can be completed in two years

Pre-Requisites

Coursework in General Biology, General Chemistry and General Physics

Curriculum Requirements (11 Credit Hours)

- GMS 6323 Pathology Case Studies 1 **Credit Hours: 3**
- GMS 6326 Pathology Case Studies 4 **Credit Hours: 3**
- GMS 6352 Forensic Pathology **Credit Hours: 3**

And select one of the following:

- GMS 6324 Pathology Case Studies 2 **Credit Hours: 2**
- GMS 6601 Introduction to Laboratory Medicine and Diagnosis **Credit Hours: 2**

Contacts



Contact Information: <http://www.grad.usf.edu/cert>



Scholarly Excellence, Leadership Experiences, & Collaborative Training (S.E.L.E.C.T) Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The USF Health Morsani College of Medicine SELECT program (Scholarly Excellence, Leadership Experiences, and Collaborative Training) prepares students to be physician leaders who can accelerate change in health care. The program recruits and develops students with the intellectual perspective, empathy, creativity and passion to change patient care, the health of communities and the medical profession. The founding principle of SELECT is the concept that students with high emotional intelligence are more likely to develop the skills needed to transform health care and improve the health of communities. Half of the curriculum is delivered on the USF-Tampa campus in the first two years of the MD program and the other half is delivered at the USF-Lehigh Valley campus in Allentown, PA during the third and fourth years of the degree.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

Admission to M.D. program

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (13 Credit Hours)

- BMS 6890
- BMS 6890B
- BMS 7231S
- MDE 8920
- MDE 8950

- BMS 6890 Select Professional Development **Credit Hours: var.**
- BMS 6890B



BMS 7231S

- MDE 8920 Select 4 **Credit Hours: var.**
- MDE 8950 Select Capstone **Credit Hours: var.**

Time Limit

5 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Department of Medicine-General

Major



Medicine, M.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as a Bachelor's/Master's Pathway (for professional doctorates)

Also offered as an Concurrent Degree

Contact Information

College: Medicine

Department: Medicine-General

Contact Information: www.health.usf.edu/medicine/mdprogram

The USF Health Morsani College of Medicine (MCOM) offers a traditional medical program and a parallel program that give you a choice of curricular emphasis and geographic location.

Admission Information

Admission Requirements:

Students applying for admission to MCOM's M.D. degree program must complete the requirements for a bachelor's degree at an accredited U.S. university or college by the time of matriculation. In addition, all prerequisites must be completed from a U.S. accredited institution by the time of matriculation into the MCOM. Required coursework may not be taken as Pass/Fail and will be considered on a case-by-case basis if taken online. Applicants who are currently pursuing a graduate or professional degree are obligated to complete all degree requirements prior to matriculation into the M.D. degree program.

- AMACS Primary Application
- Secondary Application with program selection
- Bachelor's Degree (from U.S. accredited institutions only)
- Pre-professional committee evaluation or three faculty letters of recommendation
- Two personal / character letters of recommendation
- Personal Statement
- Interview
- Completion of prerequisite courses
- Medical College Admission Test (MCAT)
- Residency – must be either a U.S. Citizen or Permanent Resident of the U.S.

Curriculum Requirements:

Total Minimum Hours: 4-Year Professional Program

Core Requirements

- BMS 6825 Doctoring I **Credit Hours: var.**
- BMS 6826 Doctoring II **Credit Hours: var.**



- BMS 6816 Cancer Biology **Credit Hours: var.**
- BMS 6836 Evidence-Based Clinical Reasoning **Credit Hours: var.**
- BMS 6837 Evidence-Based Clinical Reasoning II **Credit Hours: var.**
- BMS 6640 Medical Sciences 1: Musculoskeletal System **Credit Hours: var.**
- BMS 6641 Medical Sciences 2: Neurologic System **Credit Hours: var.**
- BMS 6633 Medical Sciences 3: Cardiovascular and Pulmonary Systems **Credit Hours: var.**
- BMS 6639 Medical Sciences 4: Renal, Endocrine, Gastrointestinal, and Reproductive Systems **Credit Hours: var.**
- BMS 6041 Medical Sciences 5: Immunology, Microbiology, Hematology, Rheumatology, Dermatology **Credit Hours: var.**
- BMS 6042 Medical Sciences 6: Nephrology, Pulmonary Disease, Cardiology, Gastroenterology **Credit Hours: var.**
- BMS 6043 Medical Sciences 7: Neurology, Psychiatry, Endocrinology, Men's and Women's Health **Credit Hours: var.**
- BMS 6920 Colloquium--Years 1 & 2 **Credit Hours: var.**

Year 1-2 Medical Science Courses

Years 1 and 2 of the curriculum are an integrated continuum that introduce students to an organ system-based overview of normal and disease processes, increasing the emphasis on diseases and therapy as the courses progress. Courses vertically integrate anatomy, physiology, pathophysiology, cell biology, biochemistry, microbiology and pharmacology relevant to the organ systems under study.

Selective seminars in several areas of the students' choosing (e.g., advances in radiology, sun and skin, neurosurgery principles, etc.) designed to give the students elective options with a goal of developing career plans. Taken twice, once per year.

Year 3 Clinical Clerkships

MCOM clinical clerkships in Tampa emphasize an integrative process of patient care from a patient perspective, vs. the traditional departmental-based approach. Multiple departments interact to deliver the curriculum at principal clinical sites including Tampa General Hospital, Haley VA Medical Center, All Children's Hospital, and the Morsani Center for Advanced Patient care. The year includes 4 weeks of elective time of the student's choosing to explore non-clerkship career options or pursue research.

Year 4 Electives/Selectives

Year 4 is focused on preparation for residency, building advanced clinical skills, and exploration of areas of medicine of interest to the student. Nine months of coursework are required, including:

1. Four months of work in a specialty track that prepares students for a specific residency discipline, including:
 - a. An Acting Internship with direct patient management responsibility (1 month)
 - b. A return to basic science in the discipline of the track, involving both clinical and basic science approaches to the discipline (2-4 weeks)
 - c. 1-2 months of specialty, consultative, or other selectives
2. Five months of additional coursework, which may include independent study electives, externships at other approved/accredited medical centers, and additional electives of the student's choice.

CORE Program Overview

The CORE program is based in Tampa for four years and features a strong preclinical integrated curriculum with small group and engaged learning emphasis, integrated clerkships, and year 4 career tracks that prepare you for the residency of your choice. The Scholarly Concentration option allows you to focus and develop yourself in an area of interest outside the normal curriculum in fields such as Health Care Disparities, Engineering, Business, and Medical Education, among others.

SELECT Program Overview

Building Leadership Competencies and Emotional Intelligence



The SELECT program is based in Tampa (2 years) and Lehigh Valley, Pennsylvania (2 years). It has the same integrated curriculum focus as the CORE program, but also offers additional training in Leadership, Health Systems, and Values-based Patient Centered Care, all important domains for developing medical leadership. This increased emphasis on leadership (in one on one coaching, small groups, seminars) is a focused alternative to the Scholarly Concentration program for students who want to concentrate on developing their medical leadership skills.

The USF Health MCOM SELECT program (Scholarly Excellence. Leadership Experiences. Collaborative Training.) prepares students to be physician leaders who can accelerate change in health care. The program recruits and develops students with the intellectual perspective, empathy, creativity and passion to change patient care, the health of communities and the medical profession. The founding principle of SELECT is the concept that students with high emotional intelligence are more likely to develop the skills needed to transform health care and improve the health of communities. In essence, students with a strong foundation in emotional intelligence will become more engaged, compassionate physicians who will connect deeply with their patients and their patients' families; feel more comfortable with and be more effective as team leaders and team members; and have the relationship building skills and systems perspectives to more effectively lead change in health care organizations.

One of the most distinctive features of SELECT is the opportunity for medical students to shape their educational experiences at both a highly progressive, student-centered medical campus, the USF MCOM in Tampa, FL, AND at one of the country's top health networks known for its quality, safety, and lean approach to driving efficiency in healthcare, the Lehigh Valley Health Network in Allentown, PA. The first class was admitted in 2011, and 56 students are now admitted annually. Students admitted to SELECT spend their first two years taking classes at the USF Morsani College of Medicine's Tampa campus, and then go to Lehigh Valley campus for two years of clinical education. Students admitted to SELECT develop leadership skills that will arm them with the knowledge, resources, and network to change the healthcare landscape for the better. These include:

- Making a difference in the lives of patients, peers, community, and hospitals.
- Applying continuous improvement approaches to optimize healthcare quality, patient safety, and efficient use of resources.
- Building resilience to operate efficiently in complex health systems.
- Acquiring tools to become a change catalyst.
- Becoming a driving force for the evolution of healthcare quality.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway

Concurrent Degree

Also available as a Concurrent Degree



Department of Medical Sciences

Major



Bioinformatics and Computational Biology, M.S.B.C.B.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Medicine

Department: Medical Sciences

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources:

<http://gradaffairs.health.usf.edu/Bioinformatics.html>

The Master's Degree Program in Bioinformatics and Computational Biology at the University of South Florida represents a multi-college partnership and a truly interdisciplinary collaboration. The major is designed to meet the increasing demand for trained people in this emerging area, which crosses the traditional fields of biological, mathematical and computer sciences. The major, therefore, builds on and complements the current strengths of the university. The goal of the Master's Degree Program in Bioinformatics and Computational Biology is to provide students enrolled in the major with high quality training and education that will prepare them for careers in science, industry, health care and education. The curriculum has been designed accordingly and provides the theoretical background, the practical training and, with the internships, the "real life" experience, which will equip students with the essential tools for a successful career in the field.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Bachelor's in biological or chemical sciences, or related field, preferred
- Graduate Record Examination*
- Two (2) letters of recommendation
- Personal statement in 1000 words or less describing primary career goals and indicating how the major would suit the student's interests and serve his/her professional goals
- Complete transcripts of undergraduate work and any previous graduate work
- International students need a course-by-course transcript evaluation, see Office of Admissions

*The GRE may be waived in special circumstances where the applicant can demonstrate substantial bioinformatics experience. This experience includes (but is not limited to) 2-3 years of research experience in academic or industrial settings working on bioinformatics analysis of biological data, or software development (preferentially in biological or bioinformatics fields), or participation in research projects leading to published papers. The decision on the waiving of GRE will be at the Graduate Director's discretion.

Prerequisites:

A good foundation in biochemistry, molecular biology, genetics, mathematics or computer sciences; or at least one year of studies in those disciplines, would be the optimal preparation for admission. Applicants who do not have this background, but who have substantial knowledge in one of these disciplines are encouraged to apply to the Graduate Certificate in Bioinformatics and Computational Biology. The Certificate has less stringent entrance requirements (GRE not required), provides the foundation for admission requirements for the major, and allows credit hours be transferred to the major, with approval.

Curriculum Requirements



Total Minimum Hours - 36

- **Core Requirements – 14 Credit Hours**
- **Additional Required Courses – 5 Credit Hours Minimum**
- **Electives – 12 Credit Hours Minimum**
- **Internship – 4 Credit Hours Minimum**
- **Remaining hour(s) taken in electives, internship, or general coursework**

Required Core Courses (14 hours)

- BCH 6886 Fundamentals of Structural Bioinformatics **Credit Hours: 4**
- PHC 6050 Biostatistics I **Credit Hours: 3**
- GMS 6604 Human Structure and Function **Credit Hours: 3**
- GMS 7930 Selected Topics **Credit Hours: 1-3**
(Applied Bioinformatics PROPOSED) (3 Credit hours for this program)

Additional Required Courses (5 Credit Hours)

Students must take:

- BCH 6746 Structural Biology **Credit Hours: 3**
And
Students must take an Ethics course, which could be either:
- BSC 6437 Biotechnology and Bioethics **Credit Hours: 3**
- GMS 6871 Health Sciences Ethics **Credit Hours: 2**

Electives (12 Credit Hours)

Students may select from graduate courses offered in the areas of science, engineering, public health, business, or law; or other courses based on availability and approval by the Graduate Director.

Comprehensive Exam

In lieu of the Comprehensive exam, a practical internship and theoretical assignment, which will both require the successful application of the knowledge they have acquired during their formal training, are required. Specifically:

- an internship with a written and an oral internship report and
- a review paper providing an overview of recent advancements in an area of biotechnology of the student's choice.

Internship (4 Credit Hours)

- BCH 6942 Bioinformatics Internship I **Credit Hours: 4-6**

Thesis

This is a non-thesis program.



Biotechnology, M.S.B.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

In select cases, late admission is possible.

Also offered as a Concurrent Degree

Contact Information

College: Medicine

Department: Medical Sciences

Contact Information: <http://www.grad.usf.edu/majors>
biotech@health.usf.edu

Other Resources:

Website: <http://health.usf.edu/medicine/graduatestudies/biotechnology>

The USF Master's Degree Program in Biotechnology represents a multi-college partnership and a truly interdisciplinary collaboration. Participating colleges include the Morsani College of Medicine, the College of Engineering, the College of Public Health, the College of Arts and Sciences and the College of Business Administration. The major is designed to meet the increasing demand for trained people in this exploding area, which crosses the traditional fields of biological, chemical, engineering, health and computer sciences. The curriculum has been designed accordingly and provides the theoretical background, the practical training and, with the internships, the "real life" experience, which will equip students with the essential tools for a successful career in the field of biotechnology. In 2008, the USF Biotechnology major was recognized by the Council of Graduate Schools as Professional Science Master's Program. Graduates take jobs in the Biotechnology Industry or move on to a Ph.D. Degree Program, Medical School, Dental School, Veterinary School or Pharmacy School. The Master's Degree Program in Biotechnology can be obtained in 3 semesters of study and is available for full-time and part-time enrollment.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

The USF Biotechnology major will be available for full -time and part-time enrollment. In order to be considered for admission to the Master's degree program in Biotechnology, applicants must fulfill the following requirements:

Administrative Pre-Requirements:

- A GRE test score *
- Two letters of recommendation
- Statement of purpose, indicating how the major would suit the student's interests and serve his/her professional goals

*The GRE may be waived in special circumstances where the applicant can demonstrate substantial graduate level experience. This experience can include (but is not limited to) a post-graduate degree, 2-3 years of research and/or development experience in an academic or industrial settings, or participation in research projects leading to published papers. The decision on the waiving of GRE will be at the Graduate Director's discretion.

Major Pre Requirements:

A good foundation in biochemistry, molecular biology and genetics, i.e. a bachelor's degree in either the biological or chemical sciences or at least one year of studies in those disciplines would be the optimal preparation for admission to the major in Biotechnology.



However, the faculty of the USF Biotechnology major is aware that not all applicants who are interested in pursuing this degree will have this formal background. Instead, some might have accumulated substantial knowledge in one of these disciplines during their work as laboratory technicians, engineering assistants or environmental or public health service providers. Those students would be ideally suited to start their graduate education with a Graduate Certificate in Biotechnology that is also offered by the Department of Molecular Medicine in the Morsani College of Medicine.

Curriculum Requirements

Total Minimum Hours - 36 credit hours

- **Core – 21 credit hours**
- **Electives – 12 credit hours**
- **Internship – 3 credit hours**

Core Requirements (21 Credit Hours)

- BCH 6135C Methods in Molecular Biology **Credit Hours: 4**
- BSC 6436 Introduction to Biotechnology **Credit Hours: 3**
- EIN 6106 Technology and Law **Credit Hours: 3**
- GMS 6069 Translational Biotechnology **Credit Hours: 3**
- BSC 6437 Biotechnology and Bioethics **Credit Hours: 3**
- GMS 6194 Biotechnology Forum **Credit Hours: 1**
- GMS 6066 Molecular Medicine **Credit Hours: 11 (4 credits for this program)** (Sec I & II)

Electives (12 Credit Hours)

Students may select from the lists below, or other courses based on availability and approval by the Graduate Director.

Internship (3 Credit Hours)

- GMS 6943 Biotechnology Internship **Credit Hours: 3**

Comprehensive Exam/Internship:

In lieu of the Comprehensive exam, a practical internship and theoretical assignment, which will both require the successful application of the knowledge they have acquired during their formal training, are required. Specifically:

- an internship with a written and an oral internship report and
- a review paper providing an overview of recent advancements in an area of biotechnology of the student's choice.

Concurrent Degree

Also available as a Concurrent Degree



Health Informatics, M.S.H.I.

Priority Admission Application Deadlines: www.grad.usf.edu/majors.php

Concentrations:

Healthcare Analytics

Contact Information

College: Medicine

Contact Information: www.grad.usf.edu/majors.php

The Master of Science in Health Informatics degree offers a curriculum that integrates the domains of information science, information resources management and health care organization and management.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- \$65 non-refundable application fee
The breakdown of this fee is as follows:
 - \$30.00 USF's Application Fee
 - \$35.00 Transcript Procurement Fee
- A bachelor's degree from an accredited university in the biological, chemical, computer or management information sciences or other appropriate field, or the equivalent bachelors and/or graduate degrees from a foreign institution.
- Minimum grade point average of 3.00 in the sciences
- Resume
- Two Letters of Recommendation
- Provide Statement of Purpose. Please include a short statement about why you are interested in the program and use this statement to speak to a lower than preferred GPA in the sciences, as well as bridge any gaps in employment.
- While these are not required, GRE, MCAT or VAT standardized test scores or evidence of substantial health informatics experience can be submitted to enhance an application.

Applicants who are not U.S. citizens, but are residing in the U.S., must provide a copy of a U.S. Visa or permanent resident card. Contact the program and International Admissions for more information on which visas are eligible to apply to this major.

Curriculum Requirements

- **Total Minimum Hours 32 credit hours**
- **Core – 11 Credit Hours**
- **General Pathway or Concentration Option – 21 Credit Hours**

Core Requirements (11 Credit Hours)

- HIM 6667 Foundation in Management Information Systems **Credit Hours: 3**



- HIM 6017 Legal Aspects of Health Information Management **Credit Hours: 3**
- HIM 6217 Health Data Management **Credit Hours: 3**
- HIM 6018 e-Healthcare Ethics **Credit Hours: 2**

Students select either the General Pathway or the Healthcare Analytics Concentration

General Pathway (21 Credit Hours)

- HIM 6840 Case Studies in Health Information Management **Credit Hours: 3**
- HIM 6118 Introduction to Health Informatics **Credit Hours: 3**
- HIM 6350 e-Medicine Business Models **Credit Hours: 3**
- HIM 6114 Integrated Electronic Medical Records **Credit Hours: 3**
- HIM 6320 Managerial Communication **Credit Hours: 3**
- HIM 6664 Healthcare Project Management **Credit Hours: 3**
And one or more required (3 Credit hours minimum):
- HIM 6137 Pharmacy Informatics **Credit Hours: 3**
- HIM 6943 Health Informatics Internship **Credit Hours: 1-3**
- HIM 6908 Health Informatics Independent Study **Credit Hours: 1-3**
- HIM 6141 Introduction to Health Informatics **Credit Hours: 3**
- HIM 6686 Healthcare Decision Support **Credit Hours: 3**
- HIM 6844 Health Outcomes Research **Credit Hours: 3**
- HIM 6477 Medical Terminology for Health Informatics Professionals **Credit Hours: 3**

Healthcare Analytics Concentration: (21 Credit Hours)

- HIM 6141 Introduction to Health Informatics **Credit Hours: 3**
- HIM 6628 Health Data Visualization **Credit Hours: 3**
- HIM 6623 Statistics for Healthcare Analytics **Credit Hours: 3**
- HIM 6655 Healthcare Data Mining and Predictive Analytics **Credit Hours: 3**
- HIM 6844 Health Outcomes Research **Credit Hours: 3**
And two or more required (6 Credit hours minimum):
- HIM 6686 Healthcare Decision Support **Credit Hours: 3**
- HIM 6629 Applied Healthcare Analytics **Credit Hours: 3**
- HIM 6908 Health Informatics Independent Study **Credit Hours: 1-3** (3 credits for this program)
- HIM 6671 Advanced Healthcare Analytics Applications **Credit Hours: 3**
- HIM 6943 Health Informatics Internship **Credit Hours: 1-3**
- HIM 6118 Introduction to Health Informatics **Credit Hours: 3**
- HIM 6477 Medical Terminology for Health Informatics Professionals **Credit Hours: 3**
- HIM 6664 Healthcare Project Management **Credit Hours: 3**

Comprehensive Exam

In lieu of the Comprehensive Exam, students complete a capstone project in the HIM 6664 Healthcare Project Management course.

Internship Project



For students who select the Internship option, each student will be assigned a faculty director who will oversee the internship project. Students will formally present their projects which will be shared with all major participants.

A minimum of thirty-two (32) semester hours are required and entail a minimum of 480 contact hours.

- HIM 6943 Health Informatics Internship **Credit Hours: 1-3**



Medical Sciences, M.S.M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered online. (Note: Only the Health Science Concentration is offered 100% online)

Aging and Neuroscience
Anatomy
Health Science
Interdisciplinary Medical Sciences
Molecular Medicine
Research
Women's Health

Contact Information

College: Medicine

Department: Medical Sciences

Contact Information: <http://www.grad.usf.edu/majors>

Website: <http://health.usf.edu/medicine/graduatestudies/index.htm>

The major is designed to provide students with advanced training in either Anatomy, Biochemistry, Medical Microbiology, or Pharmacology. Students successfully completing the major will have a foundation that will prepare them for a professional degree in biomedical science such as a M.D. or Ph.D. or qualify them to work as teachers or research assistants in academia or in the private sector. The major will provide a solid core of training in the latest findings, concepts, and experimental techniques. Students will be allowed to individualize their training through elective courses and will have the opportunity to conduct laboratory research. The major is intended for students who wish training beyond a baccalaureate degree but do not wish to commit to a Ph.D. major or do not meet the qualifications required for admissions into a M.D. or Ph.D. major.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Minimum grade-point average of 3.00 in the sciences
- GRE or MCAT
- Completed pre-requisites in:
 - General biology (1 year)
 - General chemistry (1 year)
 - General physics (1 year)
 - Organic chemistry (1 year)
 - Quantitative analysis (1 course)
 - Mathematics including integral and differential calculus
- Application Procedures:

<https://health.usf.edu/medicine/graduatestudies/masters>

Curriculum Requirements



Total Minimum hours - 31

- **Core Requirements - 5 Credit hours**
- **Pre-Professional Track or Concentration - 26 Credit hours minimum**

Core Requirements (5 Hours)

- GMS 6871 Health Sciences Ethics **Credit Hours: 2**
- GMS 6604 Human Structure and Function **Credit Hours: 3**

Select Pre-professional Track or Concentration

Students select either the Pre-Professional Track or one of the Concentrations:

Pre-Professional Track (27 hours)

Select from the following, in consultation with the advisor:

- GMS 6605 Basic Medical Anatomy **Credit Hours: 3**
- GMS 6630 Basic Medical Histology **Credit Hours: 3**
- GMS 6201 Basic Medical Biochemistry **Credit Hours: 3**
- GMS 6706 Basic Medical Neuroscience **Credit Hours: 3**
- GMS 6012 Basic Medical Genetics **Credit Hours: 3**
- GMS 6141 Basic Medical Immunology and Microbiology **Credit Hours: 3**
- GMS 6440 Basic Medical Physiology **Credit Hours: 3**
- GMS 6111 Basic Medical Pathology **Credit Hours: 3**
- GMS 6505 Basic Medical Pharmacology **Credit Hours: 3**
- GMS 6000 Medical Science Success Skills **Credit Hours: 1-3**
- GMS 6671 A Brief History of Medical Sciences **Credit Hours: 2**

Aging and Neuroscience (27 hours)

Complete the following:

- GMS 6771 Aging and Neuroscience **Credit Hours: 3**
- GMS 6708 Neuroimmunology **Credit Hours: 3**
- GMS 6706 Basic Medical Neuroscience **Credit Hours: 3**
- GMS 7939 Graduate Seminar **Credit Hours: 1** (Neurosurgery)
- GMS 7910 Directed Research **Credit Hours: 1-19** (Aging and Neuroscience - neurosurgery) - 5 credit hours
- GMS 6773 Stem Cells and Brain Repair **Credit Hours: 3** (Neurosurgery)

And select three courses from the following:

- GMS 6091 Responsible Conduct in Research **Credit Hours: 1**
- GMS 6404 Systems Neurophysiology **Credit Hours: 4**
- GMS 6067 Current Topics in Molecular Medicine **Credit Hours: 1**
- GMS 6610 Advanced Neuroanatomy **Credit Hours: 3-6**
(4 credit hours)
- GMS 6200C Biochemistry, Molecular and Cellular Biology **Credit Hours: 5**



- **GMS 6735 Neuropharmacology Credit Hours: 3**

Anatomy (27 hours)

Complete the following:

- **GMS 6605 Basic Medical Anatomy Credit Hours: 3**
- **GMS 6630 Basic Medical Histology Credit Hours: 3**
- **GMS 6323 Pathology Case Studies 1 Credit Hours: 3**
- **GMS 6610 Advanced Neuroanatomy Credit Hours: 3-6** (3 credit hours)
- **GMS 6326 Pathology Case Studies 4 Credit Hours: 3**
- **GMS 6352 Forensic Pathology Credit Hours: 3**
- **GMS 6609C Advanced Human Gross Anatomy Credit Hours: 3-6** (4 credit hours)
- **GMS 6612 Supervised Teaching in Human Anatomy Credit Hours: 1-3** (1 credit hour)

- **GMS 6324 Pathology Case Studies 2 Credit Hours: 2**
OR
- **GMS 6601 Introduction to Laboratory Medicine and Diagnosis Credit Hours: 2**

And select one course from the following:

- **GMS 6908 Medical Sciences Independent Study Credit Hours: 1-3** (2 credit hours)
- **GMS 6325 Pathology Case Studies 3 Credit Hours: 2**
- **GMS 6608 Pathology Case Studies 5 Credit Hours: 2**
- **GMS 6950 Biomedical Science Communication and Instructional Skills Credit Hours: 2**

Health Science (27 hours)

Complete the following:

- **GMS 6605 Basic Medical Anatomy Credit Hours: 3**
- **GMS 6630 Basic Medical Histology Credit Hours: 3**
- **GMS 6201 Basic Medical Biochemistry Credit Hours: 3**
- **GMS 6706 Basic Medical Neuroscience Credit Hours: 3**
- **GMS 6012 Basic Medical Genetics Credit Hours: 3**
- **GMS 6141 Basic Medical Immunology and Microbiology Credit Hours: 3**
- **GMS 6440 Basic Medical Physiology Credit Hours: 3**
- **GMS 6111 Basic Medical Pathology Credit Hours: 3**
- **GMS 6505 Basic Medical Pharmacology Credit Hours: 3**

Interdisciplinary Medical Sciences (26 hours)

Complete the following:

- **GMS 6418 Core Principles and the Musculoskeletal System Credit Hours: 3-7** (3 credit hours)
- **GMS 6054 Cancer Biology Credit Hours: 3**
- **GMS 6004 Introduction to Medical Sciences Credit Hours: 1-8**
- **GMS 6707 Medical Neuroscience Credit Hours: 3-7** (6 credit hours)
- **GMS 6477 Cardiovascular and Pulmonary Systems Credit Hours: 3-6** (6 credit hours)



- GMS 6419 Excretory, Endocrine and Reproductive Systems **Credit Hours: 3-7**

Molecular Medicine (27 hours)

Complete the following:

- BCH 6627 Molecular Basis of Disease **Credit Hours: 4**
- GMS 7910 Directed Research **Credit Hours: 1-19** (9 credit hours)
- BCH 6135C Methods in Molecular Biology **Credit Hours: 4**
- GMS 7939 Graduate Seminar **Credit Hours: 1** (2 credit hours)
- GMS 6908 Medical Sciences Independent Study **Credit Hours: 1-3** (2 credit hours)

And select two courses from the following:

- GMS 6101 Molecular and Cellular Immunology **Credit Hours: 3-4** (3 credit hours)
- BCH 6746 Structural Biology **Credit Hours: 3**
- BCH 6886 Fundamentals of Structural Bioinformatics **Credit Hours: 4**
- PHC 6050 Biostatistics I **Credit Hours: 3**
- GMS 6067 Current Topics in Molecular Medicine **Credit Hours: 1** (1 credit hour)
- GMS 6110 Microbial Pathogenesis and Host-Parasite Interactions **Credit Hours: 3**
- GMS 6115 Medical Parasitology and Mycology **Credit Hours: 3**
- BSC 6436 Introduction to Biotechnology **Credit Hours: 3**
- GMS 6103 Foundations in Medical Microbiology and Immunology **Credit Hours: 4**
- GMS 6107 Advances in Virology **Credit Hours: 2**
- GMS 6114 Vaccines and Applied Immunology **Credit Hours: 2**
- GMS 6066 Molecular Medicine **Credit Hours: 11** (4 credit hours)
- GMS 6334 Pathobiology of Human Cancer **Credit Hours: 3**

Research (32 hours)

This concentration is by approval only; consult the Graduate Director for information

- GMS 6001 Foundation in Biomedical Sciences **Credit Hours: 4-8**
- GMS 6002 Success Skills in Biomedical Sciences **Credit Hours: 1**
- GMS 6091 Responsible Conduct in Research **Credit Hours: 1**
- GMS 6094 Experimental Design and Analysis **Credit Hours: 3**
- BCH 6935 Grant Writing and Scientific Communication **Credit Hours: 2**
- GMS 7910 Directed Research **Credit Hours: 1-19**

Remaining 13 credit hours are selected in consultation with the Graduate Director.

Women's Health (27 hours)

Complete the following:

- GMS 6380 Medicine and Gender **Credit Hours: 3**
- GMS 6505 Basic Medical Pharmacology **Credit Hours: 3**
- GMS 6452 Clinical Nutrition **Credit Hours: 3**
- GMS 7910 Directed Research **Credit Hours: 1-19** (Women's Health) (3 credit hours)



- GMS 6182 Introduction to Clinical Research **Credit Hours: 3**
- GMS 6807 Epidemiology of Women's Health **Credit Hours: 3**
- GMS 6449 Complementary and Alternative Medicine **Credit Hours: 3**

And select two courses from the following list:

- GMS 6605 Basic Medical Anatomy **Credit Hours: 3** (online)
- GMS 6201 Basic Medical Biochemistry **Credit Hours: 3** (online)
- GMS 6111 Basic Medical Pathology **Credit Hours: 3** (online)
- GMS 6440 Basic Medical Physiology **Credit Hours: 3** (online)
- GMS 6706 Basic Medical Neuroscience **Credit Hours: 3**
- GMS 6012 Basic Medical Genetics **Credit Hours: 3** (online)
- GMS 6630 Basic Medical Histology **Credit Hours: 3** (online)
- GMS 6671 A Brief History of Medical Sciences **Credit Hours: 2** (online)
- GMS 6870 Medical Ethics and Humanities: Tools and Foundations **Credit Hours: 3** (online)
- GMS 6334 Pathobiology of Human Cancer **Credit Hours: 3**
- GMS 6141 Basic Medical Immunology and Microbiology **Credit Hours: 3** (online)
- GMS 6908 Medical Sciences Independent Study **Credit Hours: 1-3**
- GMS 6101 Molecular and Cellular Immunology **Credit Hours: 3-4**

Non-Thesis

This is a non-thesis program.

Comprehensive Exam

The Capstone Paper completed in the core course GMS 6671 in the last semester of the program serves in lieu of a Comprehensive Exam.



Medical Sciences, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Allergy Immunology & Infectious Disease
Molecular Medicine
Molecular Pharmacology and Physiology
Neuroscience
Pathology and Cell Biology

Also available as a Concurrent Degree.

Contact Information

College: Medicine

Department: Medical Sciences

Contact Information: <http://www.grad.usf.edu/majors>

Website: <http://health.usf.edu/medicine/graduatestudies/index.htm>

The Medical Sciences Ph.D. combines intensive biomedical sciences training and research opportunities in a variety of fields. Students enrolled in the Ph.D. program will participate in a common first semester curriculum that will provide an essential background for biomedical science research. Firsthand exposure to research areas such as cancer, neuroscience, and infectious and cardiovascular diseases is gained through laboratory rotations without restriction to any one area of focus.

Collaboration among laboratory scientists of all disciplines is encouraged. The PhD program thrives upon the participation from USF Health's world-class faculty and our successful collaborations with our research partners: the Moffitt Cancer Center, James A. Haley Veterans' Hospital, All Children's Hospital, and Tampa General Hospital. Students have a plethora of opportunities to participate in cutting-edge research projects on a multidisciplinary basis – from molecules to systems, from bench to bedside.

Successful USF graduates go on to be involved in research at academic, industrial and government institutions.

Major Research Areas:

Allergy, Immunology and Infectious Diseases Cancer Biology, Cardiovascular Research, Neuroscience & Neurodegenerative Diseases, Diabetes/Metabolic Disorders, Molecular Medicine

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Minimum grade-point average of 3.00 in the sciences
- GRE- (preferred 70th percentile or above) The GRE may be waived with MCAT scores and Graduate Director approval.
- Completed pre-requisites in:
 - General biology (1 year)
 - General chemistry (1 year)
 - General physics (1 year)



- Organic chemistry (1 year)
- Three (3) letters of recommendation
- Personal Interview
- One-two page personal statement
- Research experience preferred

Application Procedures - http://health.usf.edu/medicine/graduatestudies/phd/apply_phd.htm

Curriculum Requirements

Total Minimum Hours:

90 hours post-bachelor's

59 hours post-master's

- **Core - 13 Credit hours**
- **Concentration - 13 Credit hours minimum**
- **Lab Rotations - 1 Credit hour minimum**
- **Dissertation - 24 Credit hours minimum**
- **Remaining hours: Seminars, Lab Rotations, Directed Research, Dissertation, etc. - 41 Credit hours**

Core Course Requirements (13 hours)

Each student shall complete a minimum of 24 credit hours of didactic course work (excluding journal clubs, seminars, laboratory rotations, directed research, etc.). In addition to the required courses listed below (11 hours are didactic; GMS 6091 & GMS 6002 are not considered didactic, but are still required core courses), the student shall fulfill the 24 credit hour minimum by completing at least 13 additional hours of didactic coursework in their chosen concentration. A concentration is required, except in rare circumstances that may be approved by the Associate Dean.

All students are required to successfully complete the following didactic courses:

- GMS 6001 Foundation in Biomedical Sciences **Credit Hours: 4-8 (6 credits in this program)**
- GMS 6002 Success Skills in Biomedical Sciences **Credit Hours: 1**
- GMS 6091 Responsible Conduct in Research **Credit Hours: 1**
- GMS 6094 Experimental Design and Analysis **Credit Hours: 3**
- BCH 6935 Grant Writing and Scientific Communication **Credit Hours: 2**

Concentration Requirements

Students select from the following concentrations.

Allergy, Immunology & Infectious Disease (13 hours minimum)

Interdisciplinary approaches to the study of how microbes interact with the host to cause disease and how the immune system responds to allergens, infection and neoplasms. Students in this concentration are currently pursuing research projects in areas including emerging infectious diseases, bacterial pathogenesis, cancer immunotherapy, microbial drug resistance, malaria, Lyme disease, Clostridium difficile infections, regulation of immunity and inflammation, oncogenic viruses and respiratory viruses in acute and chronic diseases.



Complete the following:

- GMS 6103 Foundations in Medical Microbiology and Immunology **Credit Hours: 4**
- GMS 6101 Molecular and Cellular Immunology **Credit Hours: 3-4** (3 credit hours)
- GMS 7939 Graduate Seminar **Credit Hours: 1**

And complete at least 6 credit hours from the following list (or other graduate course approved by the Graduate Director):

- BCH 6746 Structural Biology **Credit Hours: 3**
- BCH 6135C Methods in Molecular Biology **Credit Hours: 4**
- GMS 6107 Advances in Virology **Credit Hours: 2**
- GMS 6114 Vaccines and Applied Immunology **Credit Hours: 2**
- GMS 6110 Microbial Pathogenesis and Host-Parasite Interactions **Credit Hours: 3**
- GMS 6940 Supervised Teaching in Molecular Medicine **Credit Hours: 1-3** (2 credit hours)
- GMS 6115 Medical Parasitology and Mycology **Credit Hours: 3**

Molecular Medicine (13 hours minimum)

In this concentration, you will examine molecular mechanisms that underlie the cellular aberrations in clinical disorders and incorporate fundamental principles learned in coursework to medical research.

Complete the following:

- BCH 6627 Molecular Basis of Disease **Credit Hours: 4**
- GMS 7939 Graduate Seminar **Credit Hours: 1**

And complete at least 9 credit hours from the following list (or other graduate course approved by the Graduate Director):

- BCH 6746 Structural Biology **Credit Hours: 3**
- BCH 6886 Fundamentals of Structural Bioinformatics **Credit Hours: 4**
- GMS 6706 Basic Medical Neuroscience **Credit Hours: 3**
- GMS 6103 Foundations in Medical Microbiology and Immunology **Credit Hours: 4**
- GMS 6101 Molecular and Cellular Immunology **Credit Hours: 3-4** (3 credit hours)
- GMS 6110 Microbial Pathogenesis and Host-Parasite Interactions **Credit Hours: 3**
- GMS 6115 Medical Parasitology and Mycology **Credit Hours: 3**
- GMS 6334 Pathobiology of Human Cancer **Credit Hours: 3**
- GMS 6610 Advanced Neuroanatomy **Credit Hours: 3-6**
- GMS 6735 Neuropharmacology **Credit Hours: 3**
- GMS 6940 Supervised Teaching in Molecular Medicine **Credit Hours: 1-3** (2 credit hours)
- PCB 6230 Cancer Biology I - Basics of Molecular Oncology **Credit Hours: 3**
- PCB 6231 Cancer Biology II - Immunology and Applied Biology **Credit Hours: 4**
- PCB 6205 Cancer Biology III - Cancer Genomics and Drug Discovery **Credit Hours: 3**

Molecular Pharmacology & Physiology (13 hours minimum)

Focused on interdisciplinary approaches to the study of nervous and cardiovascular systems and related disorders, including Alzheimer's disease, neurodegenerative disorders, cardiovascular disease, stroke, diabetes, and neuropsychiatric disorders such as depression and drug addiction.

Complete the following:

- GMS 6440 Basic Medical Physiology **Credit Hours: 3**
- GMS 6505 Basic Medical Pharmacology **Credit Hours: 3**



And complete at least 7 credit hours from the following list (or other graduate course approved by the Graduate Director):

- GMS 6404 Systems Neurophysiology **Credit Hours: 4**
- GMS 6410 Cardiovascular Regulation **Credit Hours: 4**
- GMS 6433 Membrane Physiology **Credit Hours: 4**
- GMS 6707 Medical Neuroscience **Credit Hours: 3-7** (3 credit hours)
- GMS 6704 Advanced Medical Neurosciences **Credit Hours: 2**
- GMS 6735 Neuropharmacology **Credit Hours: 3**
- GMS 7930 Selected Topics **Credit Hours: 1-3**
Either *Advanced Medical Physiology* OR *Advanced Medical Pharmacology* (2 credit hours)

Neuroscience (13 hours minimum)

Approaches to the study of the nervous systems and related disorders, including Alzheimer's disease and other neurodegenerative disorders, stroke, and neuropsychiatric disorders such as depression and drug addiction. Areas of expertise include biochemistry and cellular and molecular neuroscience, neural systems and computational neuroscience, behavioral neuroscience, developmental neuroscience, neuroimmunology, and neuropsychopharmacology, among others.

Complete the following:

- GMS 6707 Medical Neuroscience **Credit Hours: 3-7** (3 credit hours)
- GMS 6704 Advanced Medical Neurosciences **Credit Hours: 2**

And complete at least 8 credit hours from the following list (or other graduate course approved by the Graduate Director):

Strongly Recommended:

- GMS 6610 Advanced Neuroanatomy **Credit Hours: 3-6** (3 credit hours)
- GMS 6708 Neuroimmunology **Credit Hours: 3**
- GMS 6735 Neuropharmacology **Credit Hours: 3**

Other Course Options:

- GMS 6440 Basic Medical Physiology **Credit Hours: 3**
- GMS 6505 Basic Medical Pharmacology **Credit Hours: 3**
- GMS 6404 Systems Neurophysiology **Credit Hours: 4**
- GMS 6433 Membrane Physiology **Credit Hours: 4**
- GMS 6771 Aging and Neuroscience **Credit Hours: 3**
- GMS 7930 Selected Topics **Credit Hours: 1-3**

Options:

Advanced Medical Physiology - 2 credit hours

Advanced Medical Pharmacology - 2 credit hours

- GMS 6773 Stem Cells and Brain Repair **Credit Hours: 3**
- GMS 6772 The Spinal Cord: Development, Pathology and Therapy **Credit Hours: 3**

Pathology and Cell Biology (20 hours minimum)

Focuses on interdisciplinary approaches to the study of cancer, reproductive pathobiology, neurological disease & injury and related diseases, including cancer biology, angiogenesis and morphogenesis, gene discovery, neurobiology, cell biology and new educational technologies.

Complete the following:

- GMS 6334 Pathobiology of Human Cancer **Credit Hours: 3**
- GMS 6630 Basic Medical Histology **Credit Hours: 3**



- GMS 6604 Human Structure and Function **Credit Hours: 3**
- GMS 6605 Basic Medical Anatomy **Credit Hours: 3**

And complete at least 8 credit hours from the following list (or other graduate course approved by the Graduate Director):

- GMS 6111 Basic Medical Pathology **Credit Hours: 3**
- GMS 6067 Current Topics in Molecular Medicine **Credit Hours: 1**
(Biochemical Pathology - proposed GMS 6112 - 3 credit hours)
- GMS 6601 Introduction to Laboratory Medicine and Diagnosis **Credit Hours: 2**
- GMS 6323 Pathology Case Studies 1 **Credit Hours: 3**
- GMS 6324 Pathology Case Studies 2 **Credit Hours: 2**
- GMS 6325 Pathology Case Studies 3 **Credit Hours: 2**
- GMS 6326 Pathology Case Studies 4 **Credit Hours: 3**
- GMS 6608 Pathology Case Studies 5 **Credit Hours: 2**
- GMS 6352 Forensic Pathology **Credit Hours: 3**
- GMS 6609C Advanced Human Gross Anatomy **Credit Hours: 3-6** (4 credit hours)
- GMS 6612 Supervised Teaching in Human Anatomy **Credit Hours: 1-3** (1 credit hour)
- GMS 6610 Advanced Neuroanatomy **Credit Hours: 3-6** (3 credit hours)
- BCH 6886 Fundamentals of Structural Bioinformatics **Credit Hours: 4**
- GMS 6671 A Brief History of Medical Sciences **Credit Hours: 2**
- GMS 6950 Biomedical Science Communication and Instructional Skills **Credit Hours: 2**
- PCB 6230 Cancer Biology I - Basics of Molecular Oncology **Credit Hours: 3**

Lab Rotations (1 hour minimum)

Students are also required to complete at least one semester of lab rotations. One hour minimum required. Typically students take 12 hours.

- GMS 6942 Laboratory Rotations in Biomedical Sciences **Credit Hours: 1-3** (1 credit hour)

Dissertation (24 hours minimum)

The final phase of the program emphasizes research and independent study, which leads to a written dissertation. Students will present their dissertation in a public seminar and will defend it to an examination committee of faculty members with appropriate expertise in the subject matter.

- GMS 7980 Dissertation: Doctoral **Credit Hours: 2-19**
(24 credit hours)

Qualifying Exam and Doctoral Candidacy

To progress to doctoral candidacy, students must complete a written research proposal and present it in a formal public seminar. Students will defend the proposal to an examination committee of faculty members with appropriate expertise in the subject matter.

Remaining Hours and Other Requirements (41 hours minimum)

Students complete the remaining hours with lab rotations, directed research, or additional dissertation hours.



Other Requirements

Prior to the successful completion of all requirements for the Ph.D., students will be expected to publish a minimum of two peer-reviewed original research articles, at least one of which must be a first author publication related to their dissertation research.

Students must present an annual seminar outlining their research progress.

- GMS 7910 Directed Research **Credit Hours: 1-19**

Concurrent Degree

Also available as a Concurrent Degree



Department of Orthopaedics and Sports Medicine

Major



Advanced Athletic Training, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the M.S. in Athletic Training.

Contact Information

College: Medicine

Department: Orthopedics and Sports Medicine

Contact Information: <http://www.grad.usf.edu/majors>
www.usfathletictraining.com

USF Athletic Training Admissions Office – Professional Degree Program
Attn: Angela Moore
13220 USF Laurel Drive, MDF 5th Floor, MDC106,
Tampa, FL 33612

The Master of Science in Advanced Athletic Training has an emphasis on youth sports injury and other advanced athletic training competencies. This post-professional major is directed towards students either who hold the athletic training credential issued by the Board of Certification (BOC) or who are BOC-eligible or have equivalent athletic training professional preparation and wish to seek an advanced degree. This major is designed to provide students with a post-professional degree in Advanced Athletic Training with an emphasis on youth sports injury. For information on tuition costs, please contact the Department.

Major Research Areas:

Athletic training, youth sports injury

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Board of Certification (BOC)-certified or equivalent (i.e. certified athletic trainer, recent graduate from CAATE-accredited Athletic Training Program, Canadian Athletic Therapist certification)
- Minimum 3.00 grade point average in Athletic Training courses
- Completion of GRE on record

Curriculum Requirements

Total Minimum Hours: 33 Credit Hours

Shared Core Requirements - 6 Credit Hours

Additional Required Courses - 27 Credit Hours

Shared Core Requirements (6 Credit Hours)



- ATR 5612 Evidence Based Medicine in Athletic Training **Credit Hours: 3**
- ATR 6116C Preventing Sudden Death in Sports Settings **Credit Hours: 3**

Additional Course Requirements (27 hours)

- ATR 6236 Pediatric Sports Medicine **Credit Hours: 3**
- ATR 6235 Motor Development and Skill Acquisition **Credit Hours: 3**
- ATR 5605 Youth Injury Epidemiology **Credit Hours: 3**
- ATR 5515 Administration of Injury Prevention Programs **Credit Hours: 3**
- ATR 5508 Contemporary Issues in Athletic Training **Credit Hours: 3** (*Includes 5 days on campus in Tampa*)
- ATR 5319 Rehabilitation Considerations for Children **Credit Hours: 3**
- ATR 6626 Capstone Project 1 **Credit Hours: 3**
- ATR 6446 Medical Conditions of Adolescents **Credit Hours: 3**
- ATR 6627 Capstone Project 2 **Credit Hours: 3**

Non-Thesis

No thesis is required.

Comprehensive Exam: Capstone Project Requirement

The degree will be a non-thesis option, but will require a capstone project for each student, that will be completed during his or her Year 2 (ATR 6626 Capstone Project 1 & ATR 6627 Capstone Project 2). The capstone project will be in lieu of a comprehensive examination. The project could consist of items such as a comprehensive literature review, development of an injury prevention program, systematic review, development of a policies and procedures manual, etc.

Other Requirements

The major is designed to be completed in two years. The format of the major includes 10 courses, which are taught completely online, and one hybrid course that includes an online component and an on-campus (Tampa, FL) 5-day session in the summer.



Athletic Training, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the M.S. in Advanced Athletic Training.

Contact Information

College: Medicine

Department: Orthopedics and Sports Medicine

Contact Information: <http://www.grad.usf.edu/majors>

www.usfathletictraining.com

USF Athletic Training Admissions Office – Professional Degree Program

Attn: Angela Moore

13220 USF Laurel Drive, MDF 5th Floor, MDC106,

Tampa, FL 33612

The Master of Science in Athletic Training (M.S. in A.T.) major is built around 60 credit hours of required coursework to satisfy the eligibility requirements for the students to sit for the Board of Certification examination.

Major Research Areas:

Athletic Training, Rehabilitation, Biomechanics, Prevention of Sudden Death in Athletics

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Completion of GRE on record
- Meet the technical standards for admission or show potential for accomplished tasks
- Three (3) letters of Recommendation
- Personal statement in 1000 words or less describe primary career goals, what has most directly influenced your choice to become an Athletic Trainer, your attributes related to the field of Athletic Training and why you should be selected in the Athletic Training major.
- Interview (via Skype or on campus) with the Athletic Training faculty and staff
- Must complete a secondary application with ATCAS: <https://atcas.liaisoncas.com/applicant-ux/#/login>

Prerequisite Courses

- Anatomy and Physiology (2 semesters with lab)
- Medical Terminology
- Nutrition
- Psychology
- Exercise Physiology
- Chemistry (lab preferred not required)
- Physics (lab preferred not required)
- Biology (lab preferred not required)
- Statistics
- Biomechanics/Kinesiology (Recommended not required)



- Technical Writing (Recommended not required)

Curriculum Requirements

Total Minimum Hours: 60 credit hours

- **Shared Core Requirements – 6 Credit Hours**
- **Additional Required Courses – 54 Credit Hours**

Shared Core Requirements (6 Credit Hours)

- ATR 5612 Evidence Based Medicine in Athletic Training **Credit Hours: 3**
- ATR 6116C Preventing Sudden Death in Sports Settings **Credit Hours: 3**

Additional Course Requirements (54 hours)

- ATR 5105C Athletic Training Techniques **Credit Hours: 3**
- ATR 5125 Anatomical Basis of Clinical Practice in Sports Medicine **Credit Hours: 3**
- ATR 5217C Physical Examination I **Credit Hours: 4**
- ATR 5218C Physical Examination II **Credit Hours: 4**
- ATR 5348C Health and Wellness Promotion Across the Lifespan III **Credit Hours: 1**
- ATR 5306C Therapeutic Interventions I **Credit Hours: 4**
- ATR 5307C Therapeutic Interventions II **Credit Hours: 4**
- ATR 5308C Therapeutic Interventions III **Credit Hours: 1**
- ATR 5346C Health and Wellness Promotion Across the Lifespan I **Credit Hours: 3**
- ATR 5347C Health and Wellness Promotion Across the Lifespan II **Credit Hours: 1**
- ATR 5435 Medical Conditions **Credit Hours: 3**
- ATR 5534 Documentation in Athletic Training **Credit Hours: 1**
- ATR 6226 Advanced Athletic Training **Credit Hours: 3**
- ATR 6517 Professional Practice **Credit Hours: 3**
- ATR 6616 Research in Athletic Training **Credit Hours: 3**
- ATR 5815 Clinical Experience in Athletic Training I **Credit Hours: 1**
- ATR 5825 Clinical Experience in Athletic Training II **Credit Hours: 1**
- ATR 5835C Clinical Practicum in Athletic Training **Credit Hours: 1-3**
- ATR 6835 Clinical Experience in Athletic Training III **Credit Hours: 4**

Non-Thesis

No thesis is required.

Comprehensive Exam: Capstone Exam Requirement

The major is a non-thesis option, but requires successful completion of a capstone exam for each student, that will be completed during the final semester of the program. The exam consists of a comprehensive written exam, a simulated patient interaction, and design/implementation of a treatment plan.



Other Information:

Graduation Requirements - Students will complete all 60 hours of didactic coursework with a minimum GPA of 3.00. Thirteen (13) of these hours will be in Clinical Experience/Clinical Practicum. Students will complete at least 1000 hours of clinical education under an approved Preceptor.

Course Sequence

The following is the scheduled course sequence. Please note that on occasion the sequence may need to be adjusted due to faculty availability, etc. Students will receive confirmation of the course sequence as part of the advising process.

Year 1

Summer

ATR 5105C Athletic Training Techniques (3)

ATR 5125 Anatomical Basis of Clinical Practice in Sports Medicine (3)

ATR 5534 Documentation in Athletic Training (1)

Fall

ATR 5217C Physical Examination I (4)

ATR 5306C Therapeutic Interventions I (4)

ATR 5346C Health and Wellness Promotion Across the Lifespan I (3)

ATR 5347C Health and Wellness Promotion Across the Lifespan II (1)

ATR 5815 Clinical Experience in Athletic Training I (1)

Spring

ATR 5307C Therapeutic Interventions II (4)

ATR 5218C Physical Examination II (4)

ATR 6116C Preventing Sudden Death in Sports Settings (3)

ATR 5435 Medical Conditions (3)

ATR 5825 Clinical Experience in Athletic Training II (1)

ATR 5348C Health and Wellness Promotion Across the Lifespan III (1)

Total Hours Year 1: 36 credit hours

Year 2

Summer



ATR 5612 Evidence Based Medicine in Athletic Training (3)

ATR 5835C Clinical Practicum in Athletic Training (3)

Fall

ATR 6517 Professional Practice (3)

ATR 6616 Research in Athletic Training (3)

ATR 6835 Clinical Experience in Athletic Training III (4)

Spring

ATR 5308C Therapeutic Interventions III (1)

ATR 6226 Advanced Athletic Training (3)

ATR 6845 Clinical Experience in Athletic Training IV (4)

Total hours Year 2: 24 Credit Hours



School of Physical Therapy

Major



Physical Therapy, D.P.T.

Degree Information

Priority Admission Application Deadlines: www.grad.usf.edu/majors

Total Minimum Hours: 120 Credit Hours

Level: Doctoral Professional

CIP Code: 51.2308

Dept Code: PHT

Major/College: MPT MD

Contact Information

College Morsani College of Medicine

Department School of Physical Therapy

Contact information <http://dpt.health.usf.edu/>

As an integral part of the USF College of Medicine and USF Health system, the School of Physical Therapy offers you top-notch classroom and clinical experience in your entry-level preparation as a physical therapy practitioner.

The School of Physical Therapy boasts an impressive and broadly experienced cadre of faculty who are engaged in teaching as well as scholarly and research activities contributing to our discipline's body of knowledge. As part of USF Health, our Doctor of Physical Therapy students are engaged in interprofessional education with physicians, nurses, public health professionals and basic science experts. Teaching and learning together form the basis for future successful collaborative interprofessional teamwork so necessary in today's healthcare environment. The major begins a new cohort each July.

Accreditation

Accredited by Commission on Accreditation in Physical Therapy Education (CAPTE)

Admission Information

Completed applications of qualified students with all supporting documentation, received by PTCAS will be reviewed by the School of Physical Therapy DPT Student Selection Committee. The most qualified applicants will be offered enrollment as a member of the next DPT Class. All admission decisions will be sent out on or before February 1. A Waiting List will be maintained of otherwise qualified applicants in the event that a class opening should occur.

- U.S. Citizen or Permanent Resident Alien (PRA) with a Green Card in possession before we will consider your application;
- Minimum 3.20 (out of 4.00) GPA overall, and in science and prerequisite courses. We use the GPAs calculated by PTCAS. To learn more about their calculations, visit: <http://www.ptcas.org/GPA/>
- Total of twenty (20) volunteer, observational or employment hours' experience. Strongly recommend two (2) different types of sites (inpatient, outpatient, acute care, etc.)
- All degree requirements completed or no more than two (2) pre-requisite courses outstanding at the time of application. Two References from Licensed Physical Therapists with knowledge of the applicant's aptitude and potential for success in professional school. We will not accept Occupational Therapists, Ph.D.s or Physical Therapist Assistants.



** All items must be submitted directly to PTCAS, we do not receive any items at USF. Keep in mind you only have four (4) reference letter spots in PTCAS. Please ensure two of them are from licensed PT's if applying to USF

**GRE Scores must be submitted. There is no minimum score required, but your GRE results will be used in the selection process. Make sure you use GRE code 4083 to have your scores sent to USF SPT.

Meeting minimum admissions requirements does not guarantee admission to the School of Physical Therapy.

Curriculum Requirements

Total Minimum Hours – 120 Credit Hours

Core Course Requirements (120 Credit Hours)

The DPT degree program is a 3 calendar year program including two summers.

- PHT 6174 Movement Science I - DPT **Credit Hours: var.**
- PHT 6178 Movement Science II - DPT **Credit Hours: var.**
- PHT 6205 Doctoring for Physical Therapists **Credit Hours: var.**
- PHT 6205 B - Doctoring for Physical Therapists **Credit(s): 3**
- PHT 6274 Clinical Reasoning for Physical Therapists **Credit Hours: var.**
- PHT 6275 Physical Therapy Sciences 1 **Credit Hours: var.**
- PHT 6276 Physical Therapy Practice 2 **Credit Hours: var.**
- PHT 6277 Physical Therapy Practice 3 **Credit Hours: var.**
- PHT 6278 Physical Therapy Practice 4 **Credit Hours: var.**
- PHT 6284C Scientific and Professional Foundations of Physical Therapy I **Credit Hours: var.**
- PHT 6285C Scientific and Professional Foundations of Physical Therapy II **Credit Hours: var.**
- PHT 6284C B Scientific & Professional Foundations of Physical Therapy 1 **Credit(s): 3**
- PHT 6352 Pharmacology for Healthcare Professionals **Credit Hours: var.**
- PHT 6609 Critical Assessment of Literature and EBP **Credit Hours: var.**
- PHT 6841 Clinical Education I - DPT **Credit Hours: var.**
- PHT 7151 Health Promotion and Wellness **Credit Hours: var.**
- PHT 7264C Clinical Problem Solving I - DPT **Credit Hours: var.**
- PHT 7265C Clinical Problem Solving II - DPT **Credit Hours: var.**
- PHT 7328 Pediatric Physical Therapy **Credit Hours: var.**
- PHT 7402 Psychosocial Aspects of PT Practice **Credit Hours: 3**
- PHT 7421 Professional Issues I - DPT **Credit Hours: var.**
- PHT 7531 Professional Issues II - DPT **Credit Hours: var.**
- PHT 7540 Patient/Client Management Seminar **Credit Hours: var.**
 - PHT 7540B - Principles of Patient/Client Management & Seminar 1 **Credit(s): 2**
- PHT 7777 Musculoskeletal Clinical Problem Solving **Credit Hours: var.**
- PHT 7842 Clinical Education II - DPT **Credit Hours: var.**
- PHT 7864 Integrated Clinical Experience I **Credit Hours: var.**
- PHT 7866 Integrated Clinical Experience II **Credit Hours: var.**
- PHT 7959 Capstone Seminar in Physical Therapy **Credit Hours: var.**
- PHT 8179 Movement Science III - DPT **Credit Hours: var.**
- PHT 8266 Clinical Problem Solving III - DPT **Credit Hours: var.**
- PHT 8550 Professional Issues III - DPT **Credit Hours: var.**
- PHT 8702 Advanced Prosthetics and Orthotics **Credit Hours: var.**



- PHT 8843 Clinical Education III - DPT **Credit Hours: var.**

Comprehensive / Qualifying Exam information

In lieu of the Comprehensive Qualifying Exam students must satisfactorily complete required clinical experiences, a longitudinal comprehensive practical evaluation, and receive certification by the faculty. Licensure Examination following graduation and prior to initiating practice – the National Physical Therapy Examination (NPTE). The NPTE serves in lieu of a qualifying exam.



Muma College of Business

Muma College of Business

Business - Programs

University of South Florida
Muma College of Business
4202 E. Fowler Ave., BSN 3403 (loc BSN 103)
Tampa, FL 33620

Web address: <http://business.usf.edu>

Email: mba@coba.usf.edu

Phone: 813-974-3335

Fax: 813-974-4518

College Dean: Moez Limayem, Ph.D.

Associate Deans: Jacqueline Reck, Ph.D. and Gert-Jan de Vreede, Ph.D.

Graduate Coordinators: Eric Douthrit (M.B.A. programs) and Irene Hurst (discipline)

Accreditation:

The Ph.D., D.B.A., M.B.A., M.S. in Business Analytics and Information Systems, M.S. in Management, M.S. in Finance, Master of Accountancy, M.S. in Marketing, M.S. in Entrepreneurship, and M.S. in Sport and Entertainment Management majors in the Muma College of Business are accredited by the AACSB International – The Association to Advance Collegiate Schools of Business. The College also is a member of the Graduate Management Admission Council (GMAC).

Mission Statement:

We emphasize creativity and analytics to promote student success, produce scholarship with impact, and engage with all stakeholders in a diverse global environment.

College Requirements

Non-Degree Seeking Students

The Muma College of Business will approve, on a space available basis, non-degree seeking student status for transient students (degree-seeking students at another AACSB accredited institution) or for students with valid reasons to register in this status and who meet all admission requirements. Contact the College for additional requirements.



Dean's Office

Major



Big Data Analytics, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Muma College of Business

Department: Dean's Office

Contact Information: <http://www.grad.usf.edu/majors>

Big Data Analytics is an interdisciplinary area of scientific methods, processes and systems to extract knowledge and insight from large, diverse data sets that include structured, semi-structured and unstructured data, from different sources, and in different sizes. This interdisciplinary major comprises faculty from Arts & Sciences, Business, Engineering, and Public Health. Students in the program will develop broad theoretical and applied skills, including how to design, implement, and evaluate information-focused big data technologies that support decision-making across social and organizational contexts.

Major Research Areas:

Big Data, Data Analytics, Data Mining, Database Management, Statistical Computing, Ethics and Human Factors, Artificial Intelligence, Machine Learning, Data Science, Experiment Design

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Bachelor's required; Master's Degree in a relevant area preferred
- Prior training and/or experience in technology, including areas such as computer programming through data structures, database management systems, linear algebra, and networking and graph theory. Each student will be reviewed to determine their level of technical qualifications to pursue the Ph.D. If deficiencies are noted, additional suggested coursework may be required for admission.
- GRE scores are to be strong and competitive and will be reviewed holistically in the context of the overall application package
- Personal statement of purpose/interest
- 3 Letters of recommendation
- Current curriculum vitae
- Virtual interviews

All applications will be reviewed by an interdisciplinary Doctoral Program Committee that will be charged with making recommendations for admissions. This committee will also, as applicable, recommend applications for consideration for financial aid or assistantships that are available.

Foundation Courses

Students are expected to have completed coursework in the foundation areas of data structures, linear algebra and graph theory prior to entering the program. Students who have not completed some of all of these foundation courses need to demonstrate proficiency in these areas by either completing related coursework at USF such as:

| | |
|----------|------------------------------|
| COP 4530 | Data Structures |
| MAS 3105 | Linear Algebra |
| MAD 4301 | Introduction to Graph Theory |

Or equivalent (such as a Course or Certificate) pre-approved by the Graduate Director before registration in the program's core courses.



Curriculum Requirements

Total Minimum Hours - 72 hours post-bachelor's

- **Core - 6 Credit Hours**
- **Additional Required Coursework -35 Credit Hours Minimum**
- **Electives and Practicum - 7 Credit Hours Minimum**
- **Dissertation - 24 Credit Hours Minimum**

Core (6 Credit Hours)

- COT 6405 Introduction to the Theory of Algorithms **Credit Hours: 3**
- QMB 7565 Introduction to Research Methods **Credit Hours: 3**

Additional Required Coursework (35 credit hours minimum)

The curriculum is divided into three different perspective areas from which students are required to gain competency. Students must take at least one course from each of the 11 categories listed below each perspective and an additional course from the Causality and Experimentation category.

HUMAN PERSPECTIVE:

Ethics and Privacy

- GEB 6445 Social, Ethical, Legal Systems **Credit Hours: 3**
- GEB 6457 Ethics, Law and Sustainable Business Practices **Credit Hours: 3**

Cognitive Biases and Impact on Modeling, Decision Making

- EXP 7099 Graduate Seminar in Experimental Psychology **Credit Hours: 1-3**
- EXP 6608 Cognitive Psychology **Credit Hours: 3**

Data Communication and Storytelling

- ISM 6419 Data Visualization for Storytelling **Credit Hours: 3**
- CIS 6930 Special Topics **Credit Hours: 1-5** *Taken as Data Visualization (3 Credit Hours)*
- CAP 5627 Affective Computing **Credit Hours: 3**

Causality and Experimentation

(Student chooses two courses from this category):

- EDF 7474 Applied Multilevel Modeling in Education **Credit Hours: 3**
- ESI 6247 Statistical Design Models **Credit Hours: 3**
STA 6205 Design of Experiences **Credit Hours: 3** (proposed as STA 6205)
- INP 6935 Topics in Industrial-Organizational Psychology **Credit Hours: 3**
- PSY 6217 Research Methods and Measurement **Credit Hours: 2-4**
- PHC 6020 Clinical Trials: Design, Conduct, and Analysis **Credit Hours: 3**

COMPUTATIONAL PERSPECTIVE:

Data Mining

- CAP 5771 Data Mining **Credit Hours: 3**



- ISM 6136 Data Mining **Credit Hours: 3**
- ESI 6635 Advanced Analytics I **Credit Hours: 3**

Machine Learning

- ISM 6251 Data Science Programming **Credit Hours: 3**
CIS 6930 Special Topics: Predictive Analytics (3 Credit Hours) (proposed)
- CAP 5610 Machine Learning **Credit Hours: 3**
- EIN 6934 Special Industrial Topics I **Credit Hours: 1-3**

Artificial Intelligence and Deep Learning

- CAP 5625 Introduction to Artificial Intelligence **Credit Hours: 3**
- CAP 6615 Neural Networks **Credit Hours: 3**
- ESI 6681 Deep Learning Analytics **Credit Hours: 3**

Databases/Big Data

- ISM 6218 Advanced Database Management **Credit Hours: 3**
- ISM 6562 Big Data for Business Applications **Credit Hours: 3**
CIS 6930 Special Topics: Advanced Databases (3 Credit Hours)
CIS 6930 Special Topics: Introduction to Hadoop and Big Data (3 Credit Hours)

Mathematics/Linear Algebra

- MAS 5145 Advanced Linear Algebra **Credit Hours: 3**
- STA 6746 Multivariate Analysis **Credit Hours: 3**

STATISTICAL PERSPECTIVE:

Probability/Statistics

- STA 5166 Statistical Methods I **Credit Hours: 3**
- STA 5446 Probability Theory I **Credit Hours: 3**
- STA 5326 Mathematical Statistics I **Credit Hours: 3**

Optimization

- MAP 6205 Control Theory and Optimization **Credit Hours: 3**
- ESI 6491 Linear Programming and Network Optimization **Credit Hours: 3**
- ESI 6448 Integer Programming **Credit Hours: 3**
- EIN 6935 Special Industrial Topics II **Credit Hours: 1-3** Taken as: Nonlinear Optimization and Game Theory **Credit Hours 3**
- EIN 6936 Special Industrial Topics III **Credit Hours: 1-3** Taken as Multi-Objective Optimization **Credit Hours: 3**

Electives and Practicum (7 Credit Hours Minimum)

Students are expected to take at least one elective course, and one independent study/practicum course. In the practicum course (where students register for an independent study), students will solve a real-world big data analytics project. This real-world big data analytics project could be done jointly with an industry partner as part of an internship. The total number of credit hours for the electives and practicum course should be at least 7 credit hours.

- ISM 6905 Independent Study **Credit Hours: 1-6**

Comprehensive Qualifying Exam



Students must pass a comprehensive written and oral examination. The exam will be based on a completed research paper and accompanying code written by the student on a big data analytics project.

Dissertation (24 Credit Hours Minimum)

After admission to candidacy, a doctoral candidate must write and then defend a dissertation as the final phase of the doctoral program. Refer to department handbook for more information.

- ISM 7980 Dissertation **Credit Hours: 2-21**



Business Administration, D.B.A

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This major shares core requirements with the Ph.D. in Business Administration.

Contact Information

College: Muma College of Business

Contact Information: <http://www.grad.usf.edu/majors>

The DBA degree program offered by the Muma College of Business provides its graduates with the skills needed to conduct rigorous research with the objective of applying the findings to real-world decision-making in industry and government. The Program provides for intellectual growth as students work closely with faculty in seminars, research projects, and other assignments that develop their research skills and ability to communicate their findings to a broad audience of both practitioners and researchers. It also offers students the opportunity to develop a portfolio of skills that, when combined with the extensive experience that they bring into the program, uniquely qualifies them to serve in clinical faculty positions.

The curriculum is designed to build upon the breadth of business understanding that they have previously achieved as successful executives. This is achieved by offering substantive coverage of a broad variety of qualitative and quantitative research techniques and by allowing students the flexibility to focus more deeply on their personal areas of interest during the dissertation phases of the program. The degree conferred is a Doctor of Business Administration (DBA), a terminal degree so-named to differentiate it from the Ph.D. degree that specifically focuses on preparing students for an academic research career within a specific discipline. Students will complete the 3-year program in a cohort with other executives. Classes are scheduled all day for two consecutive days approximately one weekend a month for six 5-month semesters. Each semester is divided into 2 quarters, with a one-month break between semesters. Face-to-face classes are heavily supplemented by online activities between face-to-face classes. The weekend format allows participants to continue carrying their careers while they master a range of applied research skills.

Accreditation:

Accredited by the AACSB International –The Association to Advance Collegiate Schools of Business.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- Master's degree or under exceptional circumstances, candidates with an undergraduate degree from an accredited, or equivalent, institution with a minimum US GPA of 3.00 or equivalent. In some situations, additional preparatory course work may be required.
- At least 12 years of professional work experience, at least 5 of which must be at a senior managerial, senior technical or executive level
- Personal statement
- Interview

Curriculum Requirements

Minimum Hours: 72 Credit Hours post-bachelors

- **Shared Core Requirements – 5 Credit Hours**
- **Additional Required Courses – 28 Credit Hours**



- **Publication courses – 9 Credit Hours**
- **Issue courses – 10 Credit Hours**
- **Dissertation Proposal - 4 Credit Hours**
- **Directed Research - 8 Credit Hours**
- **Dissertation or Doctoral Project – 8 Credit Hours**

Shared Core Requirements (5 Credit Hours)

- QMB 7557 Research and Writing Skills for Doctoral Students **Credit Hours: 2**
- QMB 7565 Introduction to Research Methods **Credit Hours: 3**

Additional Required Courses (28 Credit Hours)

Provides students with exposure to research methods and research in the multi-disciplinary topics that represent the current areas of focus of the Muma College of Business.

These required courses consist of:

- QMB 6375 Applied Linear Statistical Models **Credit Hours: 3**
- QMB 7566 Applied Multivariate Statistical Methods **Credit Hours: 3**
- ISM 7406 Business Analytics **Credit Hours: 3**
- MAN 7298 Creativity and Innovation **Credit Hours: 3**
- GEB 6930 Selected Topics **Credit Hours: 1-3**
 - Required Selected Topics Courses:*
 - Qualitative Research Methods in Business (3 credit hours) (Proposed GEB 7911)*
 - Advanced Research Skills (1 credit hour)*
- ACG 7936 Seminar in Special Topics in Accounting **Credit Hours: 1-4 (3 Credit Hours for this program)**
- FIN 7930 Selected Topics in Finance **Credit Hours: 3**
- GEB 6457 Ethics, Law and Sustainable Business Practices **Credit Hours: 3**
 - ISM 7386 Informing Science (3 credit hours) (Proposed as ISM 7386)*
- ISM 7930 Selected Topics in MIS **Credit Hours: 1-3 (3 credit hours for this program)**
- MAN 6930 Selected Topics **Credit Hours: 1-4 (3 credit hours for this program)**
- MAR 7931 Seminar on Selected Marketing Topics **Credit Hours: 1-3 (3 credit hours for this program)**

Publication Courses (9 Credit Hours)

These courses have a substantial distance learning and collaboration component between class meetings, with members of the cohort being required to peer review each other's work and make revisions. They represent an extension of previous courses, and require the students to create publishable documents, such as journal, conference and book chapter submissions. Depending upon the particular publication project, each course will have one of the following designations:

- ACG 6915 Directed Research **Credit Hours: 1-19 (3 credit hours for this program)**
- GEB 6930 Selected Topics **Credit Hours: 1-3 (3 credit hours for this program)**
- FIN 6915 Directed Research **Credit Hours: 1-19 (3 credit hours for this program)**
- ISM 7931 Directed Research **Credit Hours: 1-12 (3 credits for this program)**
- MAN 6911 Directed Research **Credit Hours: 1-19 (3 credits for this program)**
- MAR 6916 Directed Research **Credit Hours: 1-19 (3 credits for this program)**

Issues Courses (10 Credit Hours)



These courses are intended to run in parallel with proposal and dissertation activities. Although meeting according to the same schedule as regular courses, issues courses offer fewer credits than regular or publication courses, and therefore have commensurately reduced outside workloads to avoid interfering with the dissertation process. Members of the cohort select the topics from a list of proposals made by faculty members and other members of the cohort. Students may also elect to facilitate issues courses under the direction of a faculty supervisor, who acts as the instructor of record. Depending on the topic being taught, these courses may be any of the following:

- ACG 7939 Executive Issues in Accounting **Credit Hours: 2-4 (2 credit hours for this program)**
- FIN 7939 Executive Issues in Finance **Credit Hours: 2-4 (2 credit hours for this program)**
- GEB 7939 Executive Issues in Business **Credit Hours: 2-4 (2 credit hours for this program)**
- ISM 7939 Executive Issues in MIS **Credit Hours: 2-4 (2 credit hours for this program)**
- MAN 7939 Executive Issues in Management **Credit Hours: 2-4 (2 credit hours for this program)**
- MAR 7939 Executive Issues in Marketing **Credit Hours: 2-4 (2 credit hours for this program)**
- QMB 7939 Executive Issues in Operations Research and Operations Management **Credit Hours: 2-4 (2 credit hours for this program)**

With the approval of the DBA Major Committee, students may be permitted to substitute up to four (4) credit hours of independent study/directed research (e.g., ACG 6905 , FIN 6915 , ISM 7931, MAN 6905 , MAR 7910) for selected issues courses during their final year of the major.

Dissertation Proposal Course (4 Credit Hours)

The proposal course requires the student be matched to a four (4) person Dissertation Committee and submit a dissertation proposal for approval by the Committee. For the purpose of the DBA degree program, the course requirements for both dissertation and doctoral project proposals are the same. Prior to the proposal course, students will take the university-mandated qualifying exam, whose results will be assessed by the DBA Committee. Proposal courses are graded Pass/Fail, and must be passed.

- GEB 7981 Dissertation Preparation **Credit Hours: 4**

Comprehensive Qualifying Exam and Doctoral Candidacy

Students must meet the University requirements for the Comprehensive Qualifying Exam and Doctoral Candidacy.

Directed Research (8 Credit Hours)

Dissertation/Doctoral Project (8 Credit Hours)

Students are required to complete a dissertation or doctoral project, as approved by his or her committee.

All students take eight (8) hours of Directed Research and then either eight (8) hours of Dissertation or Doctoral Project.

Dissertation

Dissertation courses are offered every quarter throughout the student's last year, upon satisfactory completion of at least 44 course credits, four (4) proposal credits, and Admission to Doctoral Candidacy. These courses require the student to work towards the completion of the Dissertation approved by his or her committee. Dissertation courses are graded Pass/Fail, and must be passed.

Because the DBA degree is designed to be responsive to the needs of the Candidate, there is some flexibility in the form that the Dissertation can take—subject to approval by the Committee. University policy allows for two variations in the format:

1. A traditional research dissertation



2. Collection of articles/papers

The Candidate will meet with members of the Committee during each residency of the final year of the major, and will present his or her dissertation to the Committee in the final semester of the major. Upon successful completion of the dissertation defense presentation, the Dissertation Committee will then approve the awarding of the Degree, subject to all remaining curriculum program requirements being met, including submission of the Dissertation to the Office of Graduate Studies.

- ACG 7980 Dissertation in Accounting **Credit Hours: 2-21**
- FIN 7980 Dissertation **Credit Hours: 2-19**
- GEB 7980 Dissertation **Credit Hours: 1-8**
- ISM 7980 Dissertation **Credit Hours: 2-21**
- MAN 7980 Dissertation **Credit Hours: 2-21**
- MAR 7980 Dissertation **Credit Hours: 2-21**

Doctoral Project

Or, a student may opt to complete a doctoral project in lieu of the Dissertation. Examples that could be approved might include:

- a practice-focused book submitted for publication,
 - a write-up of a substantial work-related project in which the principles of evidence-based research were applied
 - a portfolio of related research products/activities that demonstrate knowledge creation or innovative application in a given area. Such a portfolio might include journal, book, magazine articles, conference papers and presentations.
- Students completing the Doctoral Project earn their required eight (8) credit hours by taking courses specifically designated as doctoral project courses by the program. In the event such courses are not available in the catalog, special topics courses designated "Selected Topics: Doctoral Project" may be substituted. These courses are graded Pass/Fail, and must be passed. Confirmation of successful completion of the Doctoral Project must be submitted to the Office of Graduate Studies.

- ACG 6936 Selected Topics in Accounting **Credit Hours: 1-4**
Doctoral Project
- FIN 7930 Selected Topics in Finance **Credit Hours: 3**
Doctoral Project
- GEB 6930 Selected Topics **Credit Hours: 1-3**
Doctoral Project
- ISM 7930 Selected Topics in MIS **Credit Hours: 1-3**
Doctoral Project
- MAN 6930 Selected Topics **Credit Hours: 1-4**
Doctoral Project
- MAR 7931 Seminar on Selected Marketing Topics **Credit Hours: 1-3**
Doctoral Project

External Activity Requirements

In addition to the major's course requirements, each student is required to participate in three external activities that involve meeting with academics and/or doctoral students from other institutions. Examples of such activities could include academic conferences, workshops, colloquiums, doctoral symposiums or academic association annual or regional meetings. At least one of these should include a substantial proportion of international attendees.

Grading Requirements



Proposal, Dissertation, and Directed Research courses are graded Pass/Fail, and must be passed. Students must complete all remaining courses with a grade of "B" or better. Should a student fail to pass or complete a course with the required grade, the DBA Degree Program Committee may offer an alternative activity as a substitute.

Other Requirements

As a result of the program's cohort structure, normally all doctoral coursework must be completed at the University of South Florida within the DBA degree program. Students seeking to transfer from other majors should contact the DBA Academic Graduate Director prior to applying. All program requirements will normally be completed in three (3) years, as part of a cohort. In the event of unavoidable interruptions to a student's progress, the student may petition the DBA Graduate Committee for an extension up to a maximum of five (5) years from the student's original starting date. Any student not completing all program requirements within the five (5) year time period will be dropped from the program and the student would need to re-apply for admission to the major in the event he or she wishes to continue.



Business Administration, M.B.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

- Compliance, Risk Management and Anti-Money Laundering*
- Cyber Security*
- Data Analytics*
- Healthcare Analytics*
- Sport Business**

**This concentration is currently only available online*

***Sport Business is not available to start in Spring*

Also offered as a Concurrent Degree

This major shares core requirements with the Executive M.B.A.

Contact Information

College: Muma College of Business

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources: www.mba.usf.edu

The Master of Business Administration (M.B.A.) is a professional degree designed to prepare graduates for managerial and/or leadership roles in organizations. Graduates will develop the necessary skills and problem-solving techniques that will permit them to make an early contribution to management and eventually to move into broad, general management responsibilities at the executive level.

Accreditation:

Accredited by the AACSB International. (The Association to Advance Collegiate Schools of Business).

Major Research Areas:

Contact coordinator for department

Admission Information

The USF MBA Admission Committee uses a portfolio approach and the strength of each applicant is determined based on the entire application. Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Valid GMAT or GRE score*
- Statement of purpose
- Resume
- Three reference letters (at least one must be a professional reference)
- At the discretion of the Admission Committee, candidates may be asked to participate in an admission interview.

*A waiver of the GMAT/GRE requirement may be requested when a candidate meets one or more of the following criteria:

- 3.50 cumulative undergraduate GPA from either USF, a Preeminent University in Florida, or an AAU institution or
- Minimum 3 years professional or managerial work experience or



- Active professional license or certification of significant merit.

At the discretion of the Admission Committee, conditional admission may be offered to candidates who display a high capability to succeed in the MBA, but do not meet one or more admissions standards.

Curriculum Requirements

The full time student will need at least three semesters and a part-time student can complete all work within a reasonable time—approximately three years. Part time students are encouraged to take two courses per semester and must complete 12 hours per calendar year to remain on active status as a degree-seeking student. Students entering the major are expected to have sufficient competency in mathematics (college algebra), communication skills (written and verbal), basic computer skills, high-speed internet access, and a business foundation.

Total Minimum hours - 33 credit hours*

Students entering with a bachelor's in business from an accredited institution complete a minimum of 33 hours:

- Shared Core Requirements – 15 Credit Hours
- Concentration or Electives/Individualized Area of Emphasis– 15 credit hours
- Comprehensive Exam/Capstone Course - 3 Credit Hours

*Students entering without a bachelor's in business from an accredited institution complete a minimum of 49 hours:

- Business Foundation Courses– 16 credit hours
- Shared Core Requirements - 15 Credit Hours
- Concentration or Electives/Individualized Area of Emphasis – 15 credit hours
- Comprehensive Exam/Capstone Course - 3 Credit Hours

Business Foundation (16 Credit Hours)

Students are expected to have a common body of business knowledge as demonstrated with a four-year undergraduate degree in business from an accredited program or completion of business foundation courses, either of them taken within the last 7 years, with a minimum letter grade of B-. Students needing to fulfill this requirement may either complete foundation coursework before applying to the MBA degree program or complete them as part of the curriculum requirements. NOTE: Foundation courses may not be counted as electives.

- ACG 6026 Accounting Concepts for Managers **Credit Hours: 3**
- ECO 6005 Introduction to Economic Concepts for Managers **Credit Hours: 3**
- FIN 6406 Financial Management **Credit Hours: 2**
- ISM 6021 Management Information Systems **Credit Hours: 2**
- MAR 6815 Marketing Management **Credit Hours: 2**
- QMB 6305 Managerial Decision Analysis **Credit Hours: 2**
- QMB 6603 Operations Management and Quality Enhancement **Credit Hours: 2**

Shared Core Requirements (15 Credit Hours)

- MAN 6055 Organizational Behavior and Leadership **Credit Hours: 3**
- GEB 6445 Social, Ethical, Legal Systems **Credit Hours: 3**
- GEB 6215 Communication Skills for Managers **Credit Hours: 3**
- FIN 6465 Financial Statement Analysis **Credit Hours: 3**
- QMB 6358 Data Analytics for Business **Credit Hours: 3**



Concentration/Elective Requirements (15 credit hours minimum)

Students must complete 15 credit hours of electives: A minimum of three (3) credits must be a designated global elective. The program affords students the flexibility to choose either a formal concentration or any grouping of elective credits in coordination with their Advisor. The formalized concentrations are as follows: Compliance, Risk Management and Anti-Money Laundering; Cyber Security; Data Analytics; Sport Business; Healthcare Analytics.

Compliance, Risk Management and Anti-Money Laundering Concentration (15 credit hours)

This is an online concentration that prepares graduates for a career in compliance, risk management and anti-money laundering, especially pertinent to the financial services sector.

- BUL 5842 Risk Management and Legal Compliance **Credit Hours: 3**
- ACG 6688 Forensic Accounting and Legal Environment **Credit Hours: 3**
- ACG 6457 Accounting Systems Audit, Control, and Security **Credit Hours: 3**

Plus select a minimum of one of the following courses:

- ISM 6217 Database Administration **Credit Hours: 3**
- ISM 6930 Selected Topics in MIS **Credit Hours: 1-6** (3 credits for this program)
Other Course as approved by the MBA Academic Administrator.

Plus a three (3) credit hour designated global course chosen in consultation with the graduate director.

Cyber Security Concentration (15 Credit Hours)

This is an online concentration that prepares graduates for a career in information security management and business continuity. This concentration is fairly technical, given the nature of cybersecurity.

- ISM 6328 Information Security & Risk Management **Credit Hours: 3**
- ISM 6577 Decision Processes for Business Continuity and Disaster Recovery **Credit Hours: 3**

And a minimum of one of the following courses:

- ISM 6225 Distributed Information Systems **Credit Hours: 3**
- EEL 6787 Data Network, Systems, and Security **Credit Hours: 3**

And a minimum of one of the following courses:

- ISM 6217 Database Administration **Credit Hours: 3**
- BUL 5842 Risk Management and Legal Compliance **Credit Hours: 3**
Other course as approved by the MBA Academic Administrator.

Plus a three (3) credit hour designated global course chosen in consultation with the graduate director.

Data Analytics Concentration (15 Credit Hours)

This is an online concentration that prepares graduates with the necessary skill set to draw insights from data for decision making in different functional areas of business. Courses in the concentration will provide hands-on experience with analytical tools and database software.

- ISM 6642 Statistical Programming for Business Analytics **Credit Hours: 3**



- ISM 6136 Data Mining **Credit Hours: 3**

And select a minimum of two of the following courses:

- MAR 6936 Selected Topics in Marketing **Credit Hours: 1-4** (Taken as Marketing Analytics - 3 credit hours)
- ACG 5841 Analytics in Accounting **Credit Hours: 3**
- ISM 6217 Database Administration **Credit Hours: 3**
ISM 6930 Selected Topics in MIS **Credit Hours 3**
Or other course as approved by the MBA academic administrator.

Plus a three (3) credit hour designated global course chosen in consultation with the graduate director.

Healthcare Analytics Concentration (15 Credit Hours)

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.

- MAN 6930 Selected Topics **Credit Hours: 1-4** Taken as Healthcare Management (3 Credit Hours)
- ECP 6536 Economics of Health Care I **Credit Hours: 3**

And a minimum of two of the following courses:

- ISM 6316 Project Management **Credit Hours: 3**
- ISM 6930 Selected Topics in MIS **Credit Hours: 1-6** Taken as Data Visualization (3 Credit Hours)
- ISM 6436 Operations & Supply Chain Processes **Credit Hours: 3**
- GEB 6255 Advanced Negotiation **Credit Hours: 3**

Plus a three (3) credit hour designated global course chosen in consultation with the graduate director.

Sport Business Concentration (15 Credit Hours)

This concentration complements the solid grounding in the applied fundamentals of accounting, finance, information systems, management and marketing provided by a recognized, high-quality MBA with coursework focused on the business of sport—human capital, organization resources and development, innovation and technology in sport, culture and business relationships, sport and law and emerging issues in global sport.

- SPB 6719 Sport and Entertainment Marketing Strategy **Credit Hours: 3**
- SPB 6406 Sport and Entertainment Law **Credit Hours: 3**
- SPB 6816 Contemporary Issues in Sport and Entertainment Management **Credit Hours: 3**
- SPB 6706 Sport Business Analytics **Credit Hours: 3**
- SPB 6946 Internship in Sport and Entertainment Management **Credit Hours: 3**

Practicum/Internship Option (3 Credit Hours)

The practicum option requires investigation of business issues. The project typically occurs in the student's place of employment and is jointly supervised by a faculty member and a manager in the company. Three credits could be earned by taking one of the following: ACG 6905, FIN 6906, ISM 6905, MAR 6907, or MAN 6905 as part of this option.

Practicum/internship hours serve in lieu of elective hours.

Thesis Option (6 Credit Hours)



Students may elect a six (6) hour thesis in any of the areas of the business disciplines subject to departmental approval. **Thesis hours serve in lieu of elective hours.**

- ISM 6971 Thesis: Master's **Credit Hours: 2-6**
(6 credits required)

Comprehensive Exam/Capstone Course (3 Credit Hours)

The successful completion of the capstone course GEB 6895 (3 credits required) or GEB 6898 (3 credits required) serves in lieu of the Comprehensive Exam.

- GEB 6895 Integrated Business Applications **Credit Hours: 3**
- GEB 6898 MBA Capstone for Analytics, Compliance, and Cybersecurity **Credit Hours: 3**

Concurrent Degree

Also available as a Concurrent Degree



Business Administration, Ph.D.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

- Accounting
- Finance
- Information Systems
- Marketing

This major shares core requirements with the D.B.A. in Business Administration.

Contact Information

College: Muma College of Business

Contact Information: <http://www.grad.usf.edu/majors>

The Ph.D. degree program offered by the Muma College of Business provides its graduates with preparation for careers as college and university professors and as research and staff personnel in industry and government. The doctoral degree program provides for intellectual growth as students work closely with faculty in seminars, research projects, and other assignments, which develop their teaching and research skills. The curriculum offers breadth of understanding of the integral components of business administration as well as depth of field specialization sufficient to permit the student to make a meaningful contribution to their discipline. The program is sufficiently flexible to allow each student to build upon his or her strengths and to accommodate students with various levels of preparation in a wide variety of fields, and in areas outside the college. However, the degree conferred is Ph.D. in Business with a concentration in one of the departmental areas.

Accreditation:

Accredited by AACSB International – The Association to Advance Collegiate Schools of Business.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Competitive based on GPA, GMAT or GRE
- Personal statement
- Recommendations
- Interview

Curriculum Requirements

Total Minimum Hours: 90

- **Foundation- 0-18* credit hours**
- **Shared Core Requirements – 5 credit hours**
- **Research Methods - 12 credit hours**
- **Concentration –minimum 15 credit hours**



- **Support Field Hours - 9 credit hours**
- **Dissertation- 21 credit hours**
- **Additional Hours- 10** credit hours**

**Students who are eligible to waive foundation courses will need to replace those credit hours either with additional coursework determined in conjunction with the area coordinator or if the student has a completed master's degree, relevant courses can be considered for transfer.*

*** These hours will be determined by consultation with the concentration area coordinator. For students who have a completed master's degree, relevant coursework can be considered for transfer credit.*

A minimum of 90 semester hours beyond the bachelor's degree is required. This includes 21 hours of dissertation. A minimum of 45 hours of coursework must be completed at the University of South Florida.

Foundation Courses (0-18 Credit Hours)

These courses are designed to develop an appreciation of the institution of business and to help students see how their areas of specialization fit into this general picture. With the approval of the student's major committee, a student may satisfy these requirements in any of the following ways:

- By completing one approved undergraduate or graduate course from an AACSB (or equivalent) accredited institution with a grade of "B" or better in each of the functional areas no more than 5 years prior to admission to the Ph.D. program: Accounting, Finance, Information Systems, Management, Marketing, and Economics.
- By successfully petitioning the doctoral Committee to accept previous coursework from an institution without AACSB or equivalent accreditation in fulfillment of all or part of this requirement. Such a petition must be initiated during the first semester of the major.
- Students who do not meet A or B above must take a course at the 6000 level or above in each of the functional areas in which they were not waived.

Shared Core Requirements (5 Credit Hours)

The core courses are designed to develop the student's research skills. These courses are required of all students in the major. The College will waive a course only if the student has passed the same or equivalent course with a grade of "B" or better within the preceding five years.

- QMB 7557 Research and Writing Skills for Doctoral Students **Credit Hours: 2**
- QMB 7565 Introduction to Research Methods **Credit Hours: 3**

Research Methods (12 credit hours)

The research methods courses are meant to provide a strong background in quantitative and statistical research skills. Three courses from the list below are required and will be chosen in consultation with the student's program committee.

- ECO 6424 Econometrics I **Credit Hours: 3**
- ECO 6425 Econometrics II **Credit Hours: 3**
- ECO 7426 Econometrics III **Credit Hours: 3**
- ECO 7427 Econometrics IV **Credit Hours: 3**
- QMB 6375 Applied Linear Statistical Models **Credit Hours: 3**
- QMB 7566 Applied Multivariate Statistical Methods **Credit Hours: 3**
- ISM 7537 Empirical Research Methods **Credit Hours: 3**



In addition, students are required to take an additional 3 credit research elective approved by their advisory committee.

Any substitution of appropriate mathematics, statistical and quantitative coursework must be approved by the Doctoral Program Committee, preferably at the time of acceptance, or definitely before the student takes a substitute course.

Concentration Requirements (15 Credit Hours Minimum)

Students select from the following concentrations: **Accounting, Finance, Information Systems, or Marketing**

All students will take at least five (5) courses at the 6000 or 7000 graduate level in an area designated as the student's Concentration. Students are encouraged to identify courses in the concentration field that will provide experience in applying current research techniques to problems in that field. To accomplish this, the student may propose a combination of formal classroom courses and independent directed-research courses. This combination may include a year-long research seminar in which the groundwork is laid for the student's dissertation. The specific agenda of courses will be determined by the student's program committee.

The following fields are offered: Accounting, Finance, Information Systems, and Marketing. Courses taken as part of the Foundation or Core sections may not be counted as part of the hours required for a concentration field.

Accounting Concentration (15 Credit Hours)

The Accounting concentration emphasizes:

- The mastery of one or more specialized areas of accounting, such as accounting information systems, auditing, or financial accounting
- The development of requisite skills to engage in respected applied, practical and scholarly research
- The development of effective teaching skills

- ACG 7156 Seminar in Financial Accounting **Credit Hours: 3**
- ACG 7646 Seminar in Auditing **Credit Hours: 3**
- ACG 7356 Seminar in Management Accounting **Credit Hours: 3**
- ACG 7415 Seminar in Accounting Information Systems **Credit Hours: 3**
- ACG 7936 Seminar in Special Topics in Accounting **Credit Hours: 1-4**

Finance Concentration (18 Credit Hours)

- FIN 6804 Theory of Finance **Credit Hours: 3**
- FIN 7808 Advanced Micro Finance **Credit Hours: 3**
- FIN 7817 Financial Markets **Credit Hours: 3**
- FIN 7930 Selected Topics in Finance **Credit Hours: 3** (taken two semesters)
- FIN 7935 Finance Research Seminar **Credit Hours: 3**

Information Systems Concentration (18 Credit Hours)

- ISM 6124 Advanced Systems Analysis and Design **Credit Hours: 3 ***
- ISM 6218 Advanced Database Management **Credit Hours: 3 ***
- ISM 6225 Distributed Information Systems **Credit Hours: 3 ***
- ISM 6930 Selected Topics in MIS **Credit Hours: 1-6**
Computational Methods in Business (3 credit hours)
- ISM 7911 MIS Research Seminar II **Credit Hours: 3**



Seminar in Technical IS Research

- ISM 7912 Seminar on Behavioral IS Research **Credit Hours: 3**

Marketing Concentration Requirements (18 Credit Hours)

Students will be required to successfully complete a minimum of 6 doctoral-level Marketing seminars.

The six required courses may be selected from the following list:

- MAR 7555 Consumer Behavior Theory **Credit Hours: 3**
- MAR 7635 Advanced Marketing Research: Design and Technique **Credit Hours: 3**
- MAR 7667 Marketing Models and Strategy Applications **Credit Hours: 3**
- MAR 7787 Marketing Theory and Thought **Credit Hours: 3**
- MAR 7910 Independent Study in Marketing **Credit Hours: 1-12 S/U only**
- MAR 7931 Seminar on Selected Marketing Topics **Credit Hours: 1-3**

Topics include:

- *Buyer-Seller Interaction*
- *Marketing Channels, Logistics and Supply Chain Management*
- *Marketing Management*
- *Marketing Strategy*
- *Readings in Marketing*
- *Sales Management*

In addition, students will complete a "Pro-Seminar" every Fall semester of the first year of the major.

Note: The Professional Seminar does not count as one of the six required Ph. D. seminars.

Support Field (9 Credit Hours)

The support area will consist of a minimum of three graduate level courses (9 hours) from one or more of the fields listed under the concentration field, or elsewhere in the university. The support field and the concentration field cannot be taken in the same department. Courses within the support field can be selected to complement the concentration field and in special cases may include courses outside the Muma College of Business. The nature and number of the support area courses will be determined by the Student's Program Committee in consultation with the Ph.D. coordinator of the support field department. Courses taken as part of the Foundation or Core courses may not be counted as part of the 9 hours required for support fields.

Grade Requirement:

Should a student earn a grade of "C" or lower in a course, the case will be brought before the Doctoral Committee for review. After reviewing the case, the Committee will take one of the following steps:

- Require the student to pass an examination that covers the material relevant to the subject. A student who fails the exam on the first attempt may retake it within one year. A student who fails the exam on the second attempt will be subject to dismissal.
- Require the student to retake the course. If the student retakes the course and fails to receive a grade of "B" or better, the student is subject to dismissal.

Comprehensive Qualifying Examinations:

Upon completion of all coursework, students must pass the equivalent of a comprehensive examination in the concentration area. The student's performance on these "exams" should reflect familiarity with the literature, as well as with current issues



and problems related to these fields. A student who fails either of the exams may retake it within one year. A second failure disqualifies the student from continuing the Ph.D. degree program. If the degree is not conferred within 5 calendar years of the comprehensive qualifying examination, a second and different examination must be taken. Students passing the qualifying examination are eligible for admission to candidacy for the Ph.D. degree program.

The decision to administer a separate comprehensive exam for a support area will be made by the department in which the support area is taken. In the event that an interdisciplinary support area is selected, any department represented by six (6) or more semester hours may require a qualifying examination. In the event that no single department represents six semester hours or more, the student's graduate committee will solicit input from the faculty teaching the courses in the support area. If a majority of those polled take the position that a separate comprehensive examination in the support area is not appropriate, the exam will not be administered. If a separate comprehensive examination is not administered in a support area, material from the support area will be integrated into the comprehensive exam in the concentration area.

Dissertation (21 Credit Hours Minimum)

- ACG 7980 Dissertation in Accounting **Credit Hours: 2-21**
- FIN 7980 Dissertation **Credit Hours: 2-19** (Finance)
- ISM 7980 Dissertation **Credit Hours: 2-21** (Information Systems)
- MAR 7980 Dissertation **Credit Hours: 2-21** (Marketing)

Residency Requirement:

Ph.D. students in the College are required to complete a minimum of 15 hours per calendar year. Failure to meet this requirement will result in the student being placed on conditional status.



Executive, M.B.A.

Priority Admission Application Deadlines: www.grad.usf.edu/majors

Application tracks: Management Finance

This major shares core requirements with the M.B.A. in Business Administration.

Contact Information

College: Muma College of Business

Contact Information: www.grad.usf.edu/majors

The weekend Executive M.B.A. is a lock-step, 21-month, AACSB accredited program designed to meet the unique needs of both mid-career managers who have demonstrated the potential to reach senior management positions, and senior managers who desire to significantly increase their personal and organizational effectiveness. The major provides an opportunity to broaden and enrich management skills, to extend knowledge of modern business techniques, and to further develop understanding of the social, political, and economic forces that shape the business environment and influence decision making. Classes are scheduled all day on two Saturdays and one Friday a month for four semesters. The weekend format allows participants to continue carrying their careers while they master a range of managerial skills.

Accreditation:

AACSB International –The Association to Advance Collegiate Schools of Business.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below. The USF MBA Admission Committee uses a portfolio approach and the strength of each applicant is determined based on the entire application. In addition to the University's admissions requirements, candidates must submit the following to be considered for admission into the MBA program:

- Valid GMAT or GRE score*
- Statement of purpose
- Resume
- Three reference letters (at least one must be a professional reference)

At the discretion of the Admission Committee, candidates may be asked to participate in an admission interview.

*A waiver of the GMAT/GRE requirement may be requested when a candidate meets one or more of the following criteria:

- A 3.50 cumulative undergraduate GPA from either USF, a Preeminent University in Florida, or an AAU institution or
- Minimum 3 years professional or managerial work experience or
- Active professional license or certification of significant merit.

At the discretion of the Admission Committee, conditional admission may be offered to candidates who display a high capability to succeed in the MBA, but do not meet one or more admissions standards.

Curriculum Requirements



Total Minimum Hours: 46 Credit Hours

- **Business Foundation Courses - 16 Credit Hours**
- **Shared Core Requirements - 15 Credit Hours**
- **Electives - 9 credit hours**
- **Overseas Study Module - 3 credit hours**
- **Capstone - 3 credit hours**

Business Foundation Courses (16 Credit Hours)

- ACG 6026 Accounting Concepts for Managers **Credit Hours: 3**
- ECO 6005 Introduction to Economic Concepts for Managers **Credit Hours: 3**
- FIN 6406 Financial Management **Credit Hours: 2**
- ISM 6021 Management Information Systems **Credit Hours: 2**
- QMB 6305 Managerial Decision Analysis **Credit Hours: 2**
- QMB 6603 Operations Management and Quality Enhancement **Credit Hours: 2**
- MAR 6815 Marketing Management **Credit Hours: 2**

Shared Core Requirements (15 Credit Hours)

- MAN 6055 Organizational Behavior and Leadership **Credit Hours: 3**
- GEB 6445 Social, Ethical, Legal Systems **Credit Hours: 3**
- GEB 6215 Communication Skills for Managers **Credit Hours: 3**
- FIN 6465 Financial Statement Analysis **Credit Hours: 3**
- QMB 6358 Data Analytics for Business **Credit Hours: 3**

Electives (9 credit hours)

Select a minimum of 9 credit hours of electives or MAN 6911 Directed Research (9), chosen in consultation with the Graduate Director.

Overseas Study Module (3 credit hours)

During the interim summer session, each student participates in the annual ten-day Overseas Study Module, which involves on-site study of international business practices. A different country/region is selected each year. Past modules have included visits to such cities as Moscow, London, Zurich, Geneva, Brussels, Tokyo, Beijing, Shanghai, Mexico City, Buenos Aires, Rio de Janeiro, Hong Kong, Milan, and Paris (3 credit hours).

- ACG 6026 Accounting Concepts for Managers **Credit Hours: 3**
- MAN 6055 Organizational Behavior and Leadership **Credit Hours: 3 (2 credits for this program)**
- QMB 6305 Managerial Decision Analysis **Credit Hours: 2**
- ECO 6005 Introduction to Economic Concepts for Managers **Credit Hours: 3**
- FIN 6406 Financial Management **Credit Hours: 2 (2 credits for this program)**
- MAR 6815 Marketing Management **Credit Hours: 2 (2 credits for this program)**
(*Marketing Strategy*)
- ISM 6021 Management Information Systems **Credit Hours: 2**

Capstone Course (3 credit hours)



- MAN 6930 Selected Topics **Credit Hours: 1-4**

Comprehensive Exam

The Capstone course serves in lieu of the Comprehensive Exam.

Graduate Certificate



Business Analytics Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

Business Analytics skills are in great demand today. This certificate prepares students to acquire necessary skills in analytics and business intelligence as needed in the marketplace.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Student should meet the statistics and database prerequisites as outlined in the graduate catalog for the MS/BAIS program:

1. A course in database or significant work experience related to databases in order to take Advanced Database and Data Warehousing courses
2. A course in statistics to take all the data mining and statistics classes

Curriculum Requirements (12 Credit Hours)

This Certificate requires 12 Credit Hours.

- **Core Courses - 9 Credit Hours**
- **Electives - 3 Credit Hours**

Core Requirements (9 Credit Hours)

- ISM 6136 Data Mining **Credit Hours: 3**
- ISM 6218 Advanced Database Management **Credit Hours: 3**
- ISM 6642 Statistical Programming for Business Analytics **Credit Hours: 3**

Electives

Choose one elective course from the list below (3 Credits):



- QMB 6304 Analytical Methods for Business **Credit Hours: 3**
- ISM 6137 Statistical Data Mining **Credit Hours: 3**
- ISM 6208 Data Warehousing **Credit Hours: 3**
- ISM 6419 Data Visualization for Storytelling **Credit Hours: 3**
- ISM 6562 Big Data for Business Applications **Credit Hours: 3**
- ACG 5841 Analytics in Accounting **Credit Hours: 3**

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Additional Requirements

Graduate students who earn a 3.00 or higher in the * courses that use a SAS analytics package as part of the course and an overall 3.0 GPA in the certificate courses will receive a SAS approved Certificate in Business Analytics. Note: This is a SAS approved certificate NOT a traditional SAS certificate.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Business Foundations Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The Graduate Certificate in Business Foundations (CBF) provides an intensive, graduate level introduction to business concepts, tools, and techniques across three critical dimensions: decision making, measurement, and market orientation. The Certificate prepares current and aspiring managers to effectively contribute to strategic and operating decisions within their organizations and professions; it also fulfills prerequisite requirements for entry into the MBA program.

Course Location/Delivery

Online, Partial, Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (17 Credit Hours)

- ACG 6026 Accounting Concepts for Managers **Credit Hours: 3**
- ECO 6005 Introduction to Economic Concepts for Managers **Credit Hours: 3**
- MAN 6055 Organizational Behavior and Leadership **Credit Hours: 3**
- ISM 6021 Management Information Systems **Credit Hours: 2**
- QMB 6305 Managerial Decision Analysis **Credit Hours: 2**
- MAR 6815 Marketing Management **Credit Hours: 2**
- FIN 6406 Financial Management **Credit Hours: 2**

Electives

none

Time Limit



3 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Compliance, Risk, & Anti-Money Laundering Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

This certificate program is targeted to meet the needs of students seeking a career in the growing field of business risk assessment, compliance, and anti-money laundering. The four courses in the certificate program will provide students with a strong foundation in risk identification, assessment and management techniques. The program also focuses on providing students with knowledge regarding compliance with various rules, laws, and regulations affecting businesses. The forensic accounting course in the program specifically focuses on fraud prevention, detection, and investigation, including the litigation aspect of fraud. The information technology control and audit course is designed to equip students with the knowledge and skills necessary to add value to organizations as an auditor of IT-intensive accounting systems. The statistical data mining course will equip students with the skills necessary to apply advanced statistical techniques to "mine" data to glean actionable insights relating to meet anti-money laundering objectives. Completion of this graduate certificate program will help prepare students to take the exam for the Certified Anti-Money Laundering Specialist (CAMS) certification. USF students qualify for a discounted price of \$1,000 for the exam and two years of membership (regular price \$1,890).

Course Location/Delivery

Online, Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements. In addition, must also meet the following:

B.S. or M.S. in any business discipline from an AACSB-accredited or equivalent (EQUUS) or admit to M.S./Ph.D. Program in College of Business or cyber-security

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

Applicants who have not taken an undergraduate or graduate course in financial accounting and business law must pass a 30 question proficiency exam covering topics in accounting and business law administered by the Lynn Pippenger School of Accountancy, and have completed an undergraduate or graduate in statistics from an accredited institution.

Requirements of this Certificate (12 Credit Hours)



- BUL 5842 Risk Management and Legal Compliance **Credit Hours: 3** -offered Summer, Fall and Spring semesters
- ACG 6688 Forensic Accounting and Legal Environment **Credit Hours: 3**
- ACG 6457 Accounting Systems Audit, Control, and Security **Credit Hours: 3** -Offered Spring semester
- ISM 6137 Statistical Data Mining **Credit Hours: 3** -Offered Summer and Spring semesters

Electives

None

Time Limit

2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Human Resources Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

Human Resource Management skills were always needed in organizations. However, in the era of increasing skills shortage and war for talent, innovative strategies for Human Resources departments are more critical than ever to acquire and retain the right talent in the organization. This certificate offers courses that enable managers and other HR professionals to be on the cutting edge of the industry by infusing analytics into the classical management domain. With an offering of courses in negotiation, analytics, creativity, and collaboration, this certificate offers a unique skill-set for those seeking management positions.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

- MAN 6305 Human Resource Management **Credit Hours: 3**
- MAN 6347 People Analytics **Credit Hours: 3**

Electives

Please select two from the following courses

- ISM 6316 Project Management **Credit Hours: 3**
- MAN 6149 Leadership and Teams **Credit Hours: 3**
- MAN 6601 International Management **Credit Hours: 3**
- MAN 6448 Negotiating Agreement and Resolving Conflict **Credit Hours: 3**
- MAN 6165 Principles of Collaboration **Credit Hours: 3**



Time Limit

5 Years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Information Assurance Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

The graduate certificate in information assurance provides you with a core foundation of knowledge and applied expertise in information security controls, the regulatory environment, and information risk management and incident response.

Learn how to balance defenses and risks to secure the integrity of information in storage; ensure its accessibility to authorized personnel and inaccessibility to unauthorized personnel; and maintain the confidentiality of an organization or agency's sensitive, identifying and personal data.

Course Location/Delivery

Fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- ISM 6328 Information Security & Risk Management **Credit Hours: 3**
- ISM 6577 Decision Processes for Business Continuity and Disaster Recovery **Credit Hours: 3**

And two courses from the following:

- ISM 6145 Seminar on Software Testing **Credit Hours: 3**
- ISM 6218 Advanced Database Management **Credit Hours: 3**
- ISM 6124 Advanced Systems Analysis and Design **Credit Hours: 3**
- BUL 5842 Risk Management and Legal Compliance **Credit Hours: 3**
- ACG 6457 Accounting Systems Audit, Control, and Security **Credit Hours: 3**

Time Limit / Average Time to Completion

Five years.



Credit Toward Graduate Degree

Credit hours from this Certificate may be eligible to apply toward a graduate degree. Check with the department for information.



Project Management Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

Project management skills are increasingly gaining prominence in organizations. Getting projects done right, in time, and within budget can make a difference between organizational success and failure. Management skills are bolstered by project management expertise result in increased efficiency and competence. With an offering of courses in project management, analytics, creativity, and collaboration, this certificate offers a versatile skill-set for those seeking management positions.

Course Location/Delivery

Campus

Admissions Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Prerequisites

None

Requirements of this Certificate (12 Credit Hours)

- ISM 6316 Project Management **Credit Hours: 3**
- MAN 6145 Managing Creative Projects **Credit Hours: 3**

Electives

Please select two from the following courses

- MAN 6149 Leadership and Teams **Credit Hours: 3**
- MAN 6607 Managing International Cultural Differences **Credit Hours: 3**
- MAN 6448 Negotiating Agreement and Resolving Conflict **Credit Hours: 3**
- MAN 6347 People Analytics **Credit Hours: 3**
- MAN 6930 Selected Topics **Credit Hours: 1-4**
- MAN 6930 Selected Topics **Credit(s): 1-4** (Principles of Collaboration)

Time Limit



2 years

Credit Toward Graduate Degree

The certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Kate Tiedemann School of Business and Finance

Major



Finance, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Muma College of Business

Department: Kate Tiedemann School of Business and Finance

Contact Information: <http://www.grad.usf.edu/majors>

The M.S. in Finance offers a curriculum that concentrates on both finance and economics concepts. Students who complete the M.S. in Finance will be better prepared to succeed in careers in the financial world, especially in positions that require specialized knowledge about various finance topics.

Accreditation - AACSB International -The Association to Advance Collegiate Schools of Business.

Major Research Areas: Finance

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- GMAT score of 550 or higher (or equivalent GRE score)
- Applicants with lower GMAT (GRE) scores may be admitted if the application as a whole convinces the committee that the applicant warrants an admission to the major.
- For applicants with a three-year Bachelor's Degree from an accredited institution, the following requirements need to be met in addition to those listed above:
 - Minimum GMAT score of 650 with a minimum score of 25 on the verbal portion, or a minimum GRE score of 321 with minimum score of 150 on verbal reasoning.
 - When the three-year Bachelor's Degree is less than 120 hours from Non-Bologna Accord Institutions, a transcript evaluation from a NACES member is required to confirm equivalency.

Curriculum Requirements

Total Minimum Hours 30 hours

- **Tools (if applicable)**
- **Core - 15 Credit Hours**
- **Advanced Finance Electives - 15 Credit Hours**

A student who does not have an undergraduate degree in business must complete the following tools before taking courses for which they are prerequisites.

Pre-requisite Tools Courses (10 Credit Hours)



Students must successfully (a grade of A or B) complete equivalent courses in each of these areas prior to taking MSF courses. Tools course can be waived, with the permission of the program director, if the student earned an A or B in these courses or equivalent courses at an AACSB accredited institution within five years of entering the MSF major.

- ACG 6026 Accounting Concepts for Managers **Credit Hours: 3 ***
- ECO 6005 Introduction to Economic Concepts for Managers **Credit Hours: 3 ***
- FIN 6406 Financial Management **Credit Hours: 2**
- QMB 6305 Managerial Decision Analysis **Credit Hours: 2**

Core Finance (15 Credit Hours)

(FIN 6445 must be taken at the end of the program after the other core courses are completed.)

Core finance courses may be waived for students who graduated with finance majors from AACSB accredited programs within five years of entering the M.S. in Finance major. Only courses with the same content as the core finance courses can be used to satisfy the M.S. in Finance course requirements, and students must have earned grades of A or B to have such courses waived. Advanced finance courses must be substituted for waived courses.

- FIN 6416 Advanced Financial Management **Credit Hours: 3**
- FIN 6465 Financial Statement Analysis **Credit Hours: 3**
- FIN 6515 Investments **Credit Hours: 3**
- FIN 6455 Financial Modeling and Analytics **Credit Hours: 3**
- FIN 6425 Financial Policy **Credit Hours: 3**

Advanced Finance Electives (15 Credit Hours)

To satisfy the 15 hours of electives, students can complete any of the graduate courses offered in the Department of Finance or approved graduate courses offered in the Economics Department or other Departments at Muma College of Business (a list of approved courses will be posted each year). Students can satisfy up to six credit hours of electives by taking graduate courses offered in other departments and colleges as long as the courses are approved in advance.

Comprehensive Exam

Additional Information Regarding Curriculum

Leadership, teamwork, communication skills and organizational change are emphasized. Much of the curriculum is delivered through case studies, class discussion, exercises, group projects, video taped role-playing, simulations, and prominent guest speakers from the local business and non-profit community. Emphasis is placed on student participation and teamwork. All courses include writing, presentation, and critical thinking skills.



Lynn Pippenger School of Accountancy

Major



Accountancy, M.Acc.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Assurance
Corporate
Forensic Accounting
Tax

Also offered as:

Concentration under Business Administration (Ph.D.)

Contact Information

College: Muma College of Business

Department: Lynn Pippenger School of Accountancy

Contact Information: <http://www.grad.usf.edu/majors>

The objective of the Master of Accountancy (M.Acc.) program is to provide candidates with greater breadth and depth of knowledge in accountancy than is possible in the baccalaureate program. The major is designed to meet the increasing needs of business, government, and public accounting. Students entering the Accountancy major must already have the equivalent of an undergraduate degree in accounting from an accredited school. The major may also be structured to satisfy the requirements to sit for the CPA Examination in Florida.

Accreditation:

Accredited by The Association to Advance Collegiate Schools of Business (AACSB International).

Major Research Areas: Visit the Faculty Research page under Faculty in the Lynn Pippenger School of Accountancy website.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- 3.00 GPA in all upper-level accounting courses (minimum of 21 hours at a U.S. accredited program generally within the past 5 years; OR completion of the following "foundation" courses with a minimum grade of B in each course:
- Intermediate Financial Accounting I (ACG 3103),
- Intermediate Financial Accounting II (ACG 3113),
- Cost Accounting and Control I (ACG 3341),
- Accounting Information Systems (ACG 3401),
- Auditing I (ACG 4632), and
- Concepts of Federal Income Taxation (TAX 4001).



Students with undergraduate degrees with majors other than accounting are encouraged to contact Undergraduate advising at the Muma College of Business.

- A minimum GMAT score of 500 or higher or equivalent GRE score of 305 is required for admission into the program.

Students may apply for a GMAT waiver if the following conditions have been met:

- The student has obtained an undergraduate degree from USF and earned a GPA of at least 3.30 in the 6 core Accounting major courses; or
- The student earned a bachelor's degree in Accounting within the last five years and has passed four sections of the CPA test; or
- The student previously earned a master's degree from an accredited institution.

Admission to the Master of Accountancy degree Program is competitive. Meeting minimum requirements does not guarantee admission.

Curriculum Requirements

For the student who has the equivalent of an undergraduate major in accounting at USF (including 21-24 hours of upper-level accounting coursework taken within the last 5 years), the program consists of 30 hours. Most (24 hours) of the program is devoted to the study of accounting. The remaining six (6) graduate level hours consist of study in other business areas including economics, entrepreneurship, finance, business analytics and information systems, management and marketing. These six (6) graduate level hours are elected by the student in consultation with the M.Acc. Advisor. At least 70% of the coursework must be at the 6000 level, with 100% being graduate level.

The M.Acc. curriculum has a set of two required common core accounting courses. Students may elect a concentration (12 hours) in Assurance, Corporate, or Tax. The sequencing of courses will be determined in consultation with the M.Acc. Advisor.

Total Minimum hours - 30 hours

At least 21 hours must be in 6000-level courses.

- Core – 6 hours
- Concentration – 12 hours
- Electives – 6 hours
- Non-Accounting Electives – 6 hours

Core Requirements (6 Credit Hours)

- ACG 6875 Financial Reporting and Professional Issues **Credit Hours: 3**
- ACG 6841C Innovation and Analytics in Accounting **Credit Hours: 3**

Concentrations (12 Credit Hours Minimum)

Students select from the following Concentrations:

Assurance (12 Credit Hours)

- ACG 6457 Accounting Systems Audit, Control, and Security **Credit Hours: 3**

Select three (3) course from:

- ACG 5675 Internal and Operational Auditing **Credit Hours: 3**
- ACG 6636 Contemporary Issues in Auditing **Credit Hours: 3**



- ACG 6688 Forensic Accounting and Legal Environment **Credit Hours: 3**
- ISM 6328 Information Security & Risk Management **Credit Hours: 3**
- ISM 6156 Enterprise Resource Planning & Business Process Management **Credit Hours: 3**

Corporate (12 Credit Hours)

- ACG 6346 Contemporary Issues in Managerial Accounting **Credit Hours: 3**
- ACG 5675 Internal and Operational Auditing **Credit Hours: 3**
- TAX 5015 Federal Taxation of Business Entities **Credit Hours: 3**

Select one (1) course from:

- FIN 6416 Advanced Financial Management **Credit Hours: 3**
- FIN 6465 Financial Statement Analysis **Credit Hours: 3**

Forensic Accounting (12 Credit Hours)

- ACG 6686 Fraud Examination **Credit Hours: 3**
- ACG 6688 Forensic Accounting and Legal Environment **Credit Hours: 3**
- ACG 5375 Valuation of Closely Held Businesses **Credit Hours: 3**
- ACG 6687 Fraud and Financial Reporting **Credit Hours: 3**

Tax (12 Credit Hours)

- TAX 5015 Federal Taxation of Business Entities **Credit Hours: 3**
- TAX 6134 Advanced Corporate Taxation **Credit Hours: 3**
- TAX 6005 Advanced Partnership Taxation **Credit Hours: 3**
- TAX 6065 Contemporary Issues in Taxation **Credit Hours: 3**

Accounting Electives (6 Credit Hours)

Students select a minimum of six (6) credit hours of electives in consultation with the Graduate Advisor.

Non-Accounting Electives (6 Credit Hours)

Any graduate-level non ACG or TAX course may be used as a non-Accounting elective, subject to meeting course prerequisites and approval in advance by an M.Acc. Advisor.

Comprehensive Exam

Students will prepare an oral presentation on a case that integrates program concepts in their last semester. The presentation will be graded by the Graduate Committee of the Lynn Pippenger School of Accountancy. Students must earn a passing grade to graduate.

Other Requirements



- This program does not offer a thesis or non-thesis option.
- Any graduate-level ACG or TAX courses not used to fulfill the concentration requirement may be used to fulfill the elective requirements
- A maximum of three 5000-level courses may be used in the M.Acc. program.



School of Hospitality and Tourism Management

Major



Hospitality Management, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Behavioral & Community Sciences

Department: School of Hospitality and Tourism Management

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Science in Hospitality Management is a 30-credit hour program offered through USFSM's CHTL. The program will educate students to use strategic development techniques in a variety of private, public and institutional sectors of hospitality environments. Graduates of this program will go on to play a vital role in addressing the changes and challenges in the hospitality industry within our region, state, nation and world. An effective hospitality leader must possess a wide range of strategic and conceptual skills. Our program is designed to foster strong analytical skills, technological abilities, effective communication and logical ethical approaches to the hospitality industry and academia. Case studies, experiential learning, research projects, and presentations are utilized, along with the more traditional lecture-discussion approach.

All hospitality graduate courses are taught on the USFSM campus during the week, as well as being offered via distance live, through "zoom" technology, for those who live outside the area. Distance live students will attend class via "zoom" technology at the same time and day as the live on-campus students. For students interested in distance live via "zoom", students must inform the graduate advisor at the time of enrolling into the Master of Science in Hospitality Management program. Students are also responsible for informing the professor if they will be attending class via "zoom".

Students graduating with this degree will be attractive to corporate offices of hospitality businesses. They will focus on strategic decision-making in the development of hospitality models within the areas of organizational effectiveness, finance, marketing, technology of hospitality ventures and the expanded use of the Internet to improve and expand customer service.

Admission Information

Must meet University Admission and English Proficiency requirements as well as requirements for admission to the major, listed below.

- GRE or GMAT test scores taken within the last five (5) years if GPA (overall or upper division) is less than 3.00 (out of 4.00 scale). You may submit your application without your GRE/GMAT scores, but please include the date you plan to take the test.
- A current resume with employer references which includes at least one of the following: one year of full-time experience in a management capacity in the hospitality industry or in a related industry, a minimum of one year of full-time teaching experience in a hospitality management program, or two years of full-time entry level experience in hospitality or in a related industry.
- A brief essay of approximately 1000 words describing
- The applicant's background
- Future career goals
- Reasons for pursuing a hospitality graduate degree
- How a USFSM MS degree can help the candidate reach their career goals.
- Three letters of recommendation: at least one from a college faculty member and the others may be from a former employer or a person able to evaluate the applicant's potential for success in a graduate degree program.

Curriculum Requirements



Total Minimum hours - 30

- **Core - 27 hours**
- **Research Thesis or Graduate Internship Option - 3 hours**

Core Requirements (27 Credit Hours)

- HMG 6467 Managerial Accounting and Finance for the Hospitality Industry **Credit Hours: 3**
- HMG 6296 Strategic Management and Competitive Strategy for Hospitality and Tourism **Credit Hours: 3**
- HMG 6596 Marketing Leadership for Hospitality & Tourism **Credit Hours: 3**
- HMG 6246 Organizational Effectiveness in Hospitality **Credit Hours: 3**
- HMG 6507 Hospitality & Tourism Information Systems & Technology **Credit Hours: 3**
- HMG 6586 Research Methods & Statistics for Hospitality **Credit Hours: 3**
- HMG 6259 Lodging Management **Credit Hours: 3**
- HMG 6606 Hospitality Law & Hotel Management Contracts **Credit Hours: 3**
- HMG 6267 Restaurant and Foodservice Management **Credit Hours: 3**

Research Thesis or Graduate Internship Option (3 Credit Hours)

- HMG 6972 Masters Thesis **Credit Hours: 1-6** OR
- HMG 6946 Graduate Internship **Credit Hours: 1-6**



School of Information Systems and Management

Major



Business Analytics and Information Systems, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered partially online.

Concentrations:

Analytics and Business Intelligence
Information Assurance

Also offered as:

- track under Business Administration (Ph.D.) and application area in Business Administration (M.B.A.)
- a Bachelor's/Master's Pathway

Contact Information

College: Muma College of Business

Department: School of Information Systems and Management (ISM)

Contact Information: <http://www.grad.usf.edu/majors>

The Master of Science (M.S.) in Business Analytics and Information Systems (BAIS) meets the needs of the marketplace for expertise in analytics, information technology and management. Highly qualified individuals with motivation for leadership in information technology and analytics are encouraged to apply for admission to this program. The major meets the needs of organizations in information services, software development, management consulting, and other sectors where data analytics is used in industry. An Advisory Board consisting of senior business analytics and information systems executives works closely with the department to ensure that the program stays relevant and maintains high standards.

The major is offered in two forms – an on-campus option and a weekend executive option.

The on-campus option is designed for students who need flexibility in their course work. Students will work with faculty to design the most effective course sequence and optional thesis/practicum /independent studies to meet the major curriculum requirements and accomplish their career goals.

Alternately, the weekend executive option is intended for full-time working Information Technology/Information Systems/Business professionals who will pursue this degree while remaining employed. The weekend executive option is offered on a cohort basis with a pre-determined set of courses and independent study options selected by faculty based on market needs and student profiles. Students will benefit from an accelerated curriculum with a managerial and leadership approach. To get the full benefit, applicants are expected to have a minimum of 5 years of relevant work experience.

Accreditation

Accredited by the AACSB International – The Association to Advance Collegiate Schools of Business.

Admission Information

Must meet University Admission and English Proficiency requirements , as well as requirements for admission to the major, listed below. Students are admitted to the M.S./BAIS program based on the evaluation of their application in its entirety, including:



- GMAT, GRE or other standardized scores for graduate programs (e.g. MCAT, LSAT).
- For students with 5 years or more of relevant full-time work experience in Information Technology/ Information Systems/ Business Analytics in U.S., the requirement of standardized scores may be waived.
- Students requesting such waivers should provide information justifying such waivers based on the above criteria. Additional documentation may be sought when deemed appropriate by the program.
- letters of recommendations.
- statement of purpose, and
- relevant work experience.
- For applicants with a 3-year Bachelor's Degree from an accredited institution, the following requirements need to be met in addition to those listed above: Minimum GMAT score of 650 or a minimum GRE score of at least 321 (combined verbal and quantitative), and a minimum of 25th percentile in the verbal portion of the test. When the 3-year Bachelor's Degree is less than 120 hours from Non-Bologna Accord Institutions, a transcript evaluation from A NACES member is required to confirm equivalency.

Curriculum Requirements

Total Minimum Hours: 33 credit hours

- **Core Requirements– 12 credit hours**
- **Capstone – 3 credit hours**
- **Concentration or Electives – 18 credit hours**

The major requires 33 hours of coursework and may be taken either full-time or part-time. Full-time students with appropriate prerequisites may be able to complete the major in one full year (3 semesters) of study. Part-time students and full-time students who need prerequisites will typically need from 1 ½ to 3 years to complete the degree.

Prerequisites

Incoming students are expected to have the following as prerequisites

- A course in high-level, object oriented programming language (e.g., C#, C++, Java and Python) or substantial programming experience;
- A course in Information Systems Analysis and Design or equivalent experience;
- A course in Database Systems or equivalent experience;
- A course in Statistics or equivalent professional qualification or experiences
- A course in economics, or equivalent professional qualification or experiences and
- A course in financial accounting.

These required prerequisite courses may be taken simultaneously with courses in the M.S./BAIS major. Prerequisite courses do not count toward the 33 credit hours of course requirements in the M.S./BAIS major.

Students have the choice of two options:

On-Campus Option:

Designed for students who need flexibility in their course work, students will work early in the first semester with their major advisor to complete a formal Major Curriculum of Study meeting the Major Curriculum Requirements that will define a coherent sequence of courses to accomplish the student's objectives. Students have choice of electives as well as the option to complete a master's thesis or practicum project, depending upon the availability and approval of a faculty sponsor.

Executive Weekend Option:

Intended for full-time working Information Technology/Information Systems/Business professionals who will pursue this degree while remaining employed. Offered on a cohort basis, students will meet the Major Curriculum Requirements through a pre-determined set of courses, electives, and independent study options selected by faculty and noted on the formal Major Curriculum of Study, based on market needs and student profiles. Students will benefit from an accelerated curriculum with a managerial and leadership approach. To get the full benefit, applicants are expected to have a minimum of 5 years of relevant work experience.



Core Requirements (12 Credit Hours)

The following four courses provide an understanding of the state-of-the-art in research and practice in technical areas of Information Systems Management.

- ISM 6124 Advanced Systems Analysis and Design **Credit Hours: 3**
- ISM 6218 Advanced Database Management **Credit Hours: 3**
- ISM 6225 Distributed Information Systems **Credit Hours: 3**
- QMB 6304 Analytical Methods for Business **Credit Hours: 3**

Capstone Course (3 Credit Hours)

This course is considered the capstone of the M.S./BAIS major and as such it must be taken during one of the last two semesters of the student's major.

- ISM 6155 Enterprise Information Systems Management **Credit Hours: 3**

Concentration Option Requirements

Students select from the following concentrations or complete 18 hours of electives.

Analytics & Business Intelligence Concentration (18 Credit Hours)

In addition to the Technical Core and Capstone courses, students must complete the following:

Required Courses (12 Credit Hours)

In addition, graduate students who take the required four courses for this concentration and earn an average GPA of 3.00 or higher in these courses, will receive a SAS approved Certificate in Analytics and Business Intelligence, when they use a SAS analytics package as part of some of these courses.

Specifically, graduate students will need to use, among other tools, SAS Enterprise Miner or an equivalent SAS analytics package in the Data Mining, Statistical Data Mining and Statistical programming for Business Analytics courses. If students take at least one of the courses marked with a * as part of the analytics and business intelligence concentration, they will receive a SAS approved Certificate in Analytics and Business Intelligence.

Students will have to complete four out of the following seven courses:

- ISM 6136 Data Mining **Credit Hours: 3 ***
- ISM 6218 Advanced Database Management **Credit Hours: 3**
- ISM 6208 Data Warehousing **Credit Hours: 3**
- ISM 6137 Statistical Data Mining **Credit Hours: 3 ***
- QMB 7566 Applied Multivariate Statistical Methods **Credit Hours: 3**
- ISM 6642 Statistical Programming for Business Analytics **Credit Hours: 3 ***
- ISM 6930 Selected Topics in MIS **Credit Hours: 1-6 (3 credits for this program)**
- ISM 6930 Selected Topics in MIS **Credit(s): 1-6 (3 credits for this program)** (Big Data and Ecommerce)

Electives (6 Credit Hours)



To complete the Analytics and Business Intelligence concentration, students will need to meet the 33 credit hour requirement for the MS in BAIS degree program by taking graduate level electives for the program. Other electives from across the campus may also be taken to meet the 33 credit hour requirement with prior approval of the academic advisor of the program.

Information Assurance Concentration (18 Credit Hours)

In addition to the Technical Core and Capstone courses, students must complete the following:

Required Courses (6 Credit Hours)

- ISM 6328 Information Security & Risk Management **Credit Hours: 3**
- ISM 6577 Decision Processes for Business Continuity and Disaster Recovery **Credit Hours: 3**

Electives (6 Credit Hours)

Any two elective courses from the set of courses listed below

- ISM 6145 Seminar on Software Testing **Credit Hours: 3**
- ISM 6316 Project Management **Credit Hours: 3**
- ISM 6124 Advanced Systems Analysis and Design **Credit Hours: 3**
- ISM 6218 Advanced Database Management **Credit Hours: 3**
- ISM 6266 Software Architecture **Credit Hours: 3**

Electives (6 Credit Hours)

To complete the Information Assurance concentration, students will need to meet the 33 credit hour requirement for the MS in BAIS degree by taking graduate level electives for the major. Other electives from across the campus may also be taken to meet the 33 credit hour requirement with prior approval of the academic advisor of the program.

Electives (18 Credit Hours)

Up to eighteen graduate level credits may be selected from additional Information Systems courses or (with prior approval by the academic advisor) other areas of specialization such as areas of Management, Decision Sciences, Computer Science, Logistics, etc. Existing Course Offerings:

- ISM 6124 Advanced Systems Analysis and Design **Credit Hours: 3**
- ISM 6266 Software Architecture **Credit Hours: 3**
- ISM 6145 Seminar on Software Testing **Credit Hours: 3**
- ISM 6155 Enterprise Information Systems Management **Credit Hours: 3**
- ISM 6218 Advanced Database Management **Credit Hours: 3**
- ISM 6225 Distributed Information Systems **Credit Hours: 3**
- ISM 6305 Managing the Information System Function **Credit Hours: 3**
- ISM 6442 International Aspects of Information Science **Credit Hours: 3**
- ISM 6405 Informatics and Business Intelligence **Credit Hours: 3**
- ISM 6485 Electronic Commerce **Credit Hours: 3**
- ISM 6905 Independent Study **Credit Hours: 1-6**
- ISM 6945 BAIS Internship **Credit Hours: 1**
- ISM 6930 Selected Topics in MIS **Credit Hours: 1-6**
- ISM 6316 Project Management **Credit Hours: 3**
- ISM 6136 Data Mining **Credit Hours: 3**



- ISM 6208 Data Warehousing **Credit Hours: 3**
- ISM 6056 Web Application Development **Credit Hours: 3**
- ISM 6156 Enterprise Resource Planning & Business Process Management **Credit Hours: 3**
- ISM 6328 Information Security & Risk Management **Credit Hours: 3**

In addition, the following Special Topics are being offered:

- ISM 6930 Selected Topics in MIS **Credit Hours: 1-6** (Multimedia Applications)
- ISM 6930 Selected Topics in MIS **Credit(s): 1-6** (Mainframe Technologies)
- ISM 6137 Statistical Data Mining **Credit Hours: 3**

Thesis Option (6 Credit Hours)

The master's thesis option requires six credits of ISM 6971, which count as six of the 18 BAIS elective credits. The thesis must make a well-defined contribution to the research and development in an area of Information Systems.

- ISM 6971 Thesis: Master's **Credit Hours: 2-6**

Practicum Option (1-6 Credit Hours)

The practicum option requires an investigation of a new information technology artifact. The project typically occurs in the student's place of employment and is jointly supervised by a faculty member and a manager in the company. One credit of ISM 6905 would be taken for each semester that the student works on a project. The practicum would count for one to six hours of the 18 hours of BAIS electives.

Research/Project Option (1-3 Credit Hours)

The research/ project option requires working on an BAIS related project that involves research or community engagement. The project is supervised by a faculty member. One to two credits of ISM 6905 would be taken for each semester that the student works on a project. The research/ project option would count for one to three hours of the 18 hours of BAIS electives.

Comprehensive Exam

In lieu of a comprehensive exam, assessments comprising the capstone course (ISM 6155) fulfill the requirements for the comprehensive assessment in the program.

Graduate Certificate Options

Note that students in the Program can also obtain graduate certificates in (1) Compliance, Risk and Anti-Money Laundering and/or (2) Information Assurance by selecting elective courses suitably.

Bachelor's/Master's Pathway

Also available as a Bachelor's/Master's Pathway



Management, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Concentrations:

Human Resource
Project Management
Management Information Systems

Contact Information

College: Muma College of Business

Department: School of Information Systems and Management

Contact Information: <http://www.grad.usf.edu/majors>

Contemporary organizations widely recognize the strategic impact of project management. Project Management provides a system for aligning strategic and business goals that focus on meeting client expectations and producing desired outcomes. The foundation of this program is project management theory, project applications, manager skills and methods, and the tools required to successfully manage and navigate organization projects.

The purpose of this major is to provide management leaders with principles of project management; leadership and strategic analysis; creativity and analytics; organizational behavior, decision making, design and change; collaboration; agile development and scrum methodology. The major specifically focuses on project management leadership requirements, such as facilitating teamwork in diverse groups; empowering others; recognize and adapt to the constraints and opportunities of a global economy, and develop centers of excellence.

This dynamic, well-focused, progressive program provides a broad range of project management concepts and skills. Much of the curriculum is delivered through case studies, class discussion, exercise, group project, videotaped role-playing, simulations, and prominent guest speakers from local and national business and non-profit organizations. Emphasis is placed on student participation and teamwork. All courses include writing, presentations, critical thinking, analytics and creativity.

Accreditation: AACSB International -The Association to Advance Collegiate Schools of Business.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

The MS in Management admission committee uses a portfolio approach: the strength of each applicant is determined based on the entire application. The committee will consider the following:

- Prior college-level academic performance (bachelor's degree from an accredited institution required); For applicants with a 3-year Bachelor's Degree from an accredited institution, the following requirements need to be met:
- Minimum GMAT score of 600 or a minimum GRE score of at least 321, and a minimum of 25th percentile in the verbal portion of the test.
- When the 3-year Bachelor's Degree is less than 120 hours from Non-Bologna Accord Institutions, a transcript evaluation from a NACES member is required to confirm equivalency.
- GMAT, (preferred), GRE, MCAT, LSAT, and PCAT (submitted scores must be within five (5) years of the term of entry);



- Applicants from Preeminent and Emerging Universities within the State of Florida (University of Florida, Florida State University, and University of South Florida-Tampa) and a cumulative GPA of 3.50 or greater may request waiver of GMAT;
- Applicants with three (3) or more years of managerial or professional experience may request a GMAT/GRE waiver;
- A statement of purpose,
- Recommendation letters,
- Resume,
- Relevant professional work experience
- Any additional information that helps to ensure the potential success of the applicant in the program

Curriculum Requirements

Total Minimum Hours - 30 credit hours

- **Core Requirements-15 Credit hours**
- **Concentration or Electives- 12 Credit hours**
- **Additional Electives – 3 Credit hours minimum**
- **Optional Practicum (counts within electives) – 1-3 Credit hours**
- **Optional Research Paper (counts within electives) – 3 Credit hours**

The major may be taken either full-time or part-time. Early in the first semester, a student and the program advisor will work together to complete a formal Program of Study that will define a coherent sequence of courses to satisfy the students objectives. Students may choose the concentration or the general path with completion of electives.

Core Requirements (15 Credit Hours)

Core (12 Credit Hours)

The following four courses provide a solid understanding of state-of-the-art research and practice covering the primary areas in the domain of Management.

- MAN 6055 Organizational Behavior and Leadership **Credit Hours: 3**
- MAN 6289 Organizational Change and Development **Credit Hours: 3**
- MAN 6347 People Analytics **Credit Hours: 3**
- ISM 6316 Project Management **Credit Hours: 3**

Core Capstone Course (3 Credit Hours)

This course is considered to be the capstone of the M.S. in Management program and as such it must be taken during one of the last two semesters of the student's program. It integrates the topics covered in the four other core courses.

- MAN 6950 Capstone Experience in Leading Organizations **Credit Hours: 3**

Concentration Requirements

Students may select from one of the following Concentrations:

Project Management Concentration (12 Credit Hours)

Select 12 credit hours from the following:



- MAN 6448 Negotiating Agreement and Resolving Conflict **Credit Hours: 3**
- MAN 6601 International Management **Credit Hours: 3**
- MAN 6145 Managing Creative Projects **Credit Hours: 3**
- MAN 6165 Principles of Collaboration **Credit Hours: 3**
- MAN 6435 Contract Management **Credit Hours: 3**
- ACG 6026 Accounting Concepts for Managers **Credit Hours: 3**

Human Resources Concentration (12 Credit Hours)

- MAN 6305 Human Resource Management **Credit Hours: 3**
- MAN 6406 Employment Law **Credit Hours: 3**

Choose 6 credits from the following courses:

- MAN 6448 Negotiating Agreement and Resolving Conflict **Credit Hours: 3**
- MAN 6601 International Management **Credit Hours: 3**
- MAN 6204 Organization Design and Structure **Credit Hours: 3**
- MAN 6165 Principles of Collaboration **Credit Hours: 3**

Management Information Systems Concentration (12 Credit Hours)

- ISM 6124 Advanced Systems Analysis and Design **Credit Hours: 3**
- ISM 6218 Advanced Database Management **Credit Hours: 3**

Choose 6 credits from the following courses:

- ISM 6156 Enterprise Resource Planning & Business Process Management **Credit Hours: 3** (Pre-req: ISM 6021)
- ISM 6436 Operations & Supply Chain Processes **Credit Hours: 3**
- ISM 6136 Data Mining **Credit Hours: 3** (Pre Req QMB 6305)
- Or any elective pre-approved by the Director of the Muma College of Business Masters in Management.

Electives (3 Credit Hours Minimum)

Elective courses may be selected from additional management courses or (with prior approval by the academic advisor) other areas of specialization such as sociology, information systems, psychology, or communication. The following courses are potential electives, depending on semester and offerings. Any course offered in the concentrations not selected by the student may also be taken as an elective.

- MAN 6930 Selected Topics **Credit Hours: 1-4 (3 credits for this program)** (Management Internship)
- GEB 6445 Social, Ethical, Legal Systems **Credit Hours: 3**
- MAN 6147 Leadership/Management Concepts **Credit Hours: 2**
- MAN 6726 Strategic Business Analysis **Credit Hours: 2**
- GEB 6457 Ethics, Law and Sustainable Business Practices **Credit Hours: 3**
- ISM 6328 Information Security & Risk Management **Credit Hours: 3**
- ISM 6436 Operations & Supply Chain Processes **Credit Hours: 3**
- MAN 6256 Politics and Control in Organizations **Credit Hours: 3**
- MAN 6905 Independent Study **Credit Hours: 1-19 (1-3 credits for this program)**
- SCM 6200 Logistics and Physical Distribution Management **Credit Hours: 3**
- SCM 6206 Logistics Systems and Analytics **Credit Hours: 3**



Comprehensive Exam

Practicum Option (1 to 3 Credit Hours)

The practicum option requires students to work on an applied project related to management/project management. Typically this can occur at the student's place of employment and is jointly supervised by a faculty member and a manager in the company. One credit of MAN 6905 would be taken for each semester to a maximum of three credits over three semesters. The practicum would count for 1-3 hours of electives.

Research Paper Option (3 Credit Hours)

The research paper option requires students to work on an scholarly publication related to management. Typically this means that the student picks an academic supervisor, picks a scholarly research topic, conducts literature survey, designs a research method, collects data, analyzes the data, and writes a research paper. The student then presents it to a committee and uses their feedback to revise the paper and submit to one of the peer reviewed conferences in the management or related disciplines. The research paper option (MAN 6905) will count for 3 credit hours of electives.

- MAN 6905 Independent Study **Credit Hours: 1-19 (3 credits for this program)**



School of Marketing and Innovation

Major



Entrepreneurship in Applied Technologies, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered partially online.

Also offered as a Concurrent Degree.

Contact Information

College: Muma College of Business

Department: School of Marketing and Innovation

Contact Information: <http://www.grad.usf.edu/majors>

Other Resources:

<https://www.usf.edu/entrepreneurship/programs/masters/entrepreneurship@usf.edu>

The Center for Entrepreneurship at the University of South Florida, in partnership with the Colleges of Business and Engineering, Morsani College of Medicine and the Patel College of Global Sustainability, has established a novel, innovative, and unique major in interdisciplinary Entrepreneurship in Applied Technologies. The Master's of Science Degree Program in Entrepreneurship in Applied Technologies is an innovative major and consists of courses that will consolidate the Entrepreneurship education and training for successful opportunity recognition and development, technology and market assessment, technology commercialization, new venture formation, and new venture financing into a single inter-disciplinary program curriculum utilizing faculty and courses in the Colleges of Business, Engineering, Medicine, and Global Sustainability.

The major is designed such that a student may complete it in a concentrated 12-month period of study or in an 18-month period. In addition, the Masters of Science Degree in Entrepreneurship is designed so that it can be completed as part of a concurrent degree in with a traditional M.A., M.S., M.B.A., M.D., or Ph.D. program. Concurrent degrees include the following: Master in Business Administration (MBA), Biotechnology (M.S.), Information Systems (M.S.), Public Health (MPH), Global Sustainability (M.S.) Environmental Science (M.S.), Civil Engineering (M.S. and Ph.D.), Industrial Engineering (M.S.), Medicine (M.D.), and Biomedical Engineering (M.S. B.E. & Ph.D). The concurrent degrees must be completed by the student within a 5-year period following initiation.

Accreditation:

Accredited by the the Association to Advance Collegiate Schools of Business

Admission Information

Must meet University requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

- Two (2) letters of recommendation
- Letter of interest
- Personal interview
- GRE, GMAT may be required on individual basis; MCAT or LSAT may be substituted
- Competence in Statistics, Accounting, and Finance must be demonstrated

Curriculum Requirements



Total Minimum Hours: 30 Credit Hours

- **Core requirements – 6 Credit Hours**
- **Additional Required Courses - 9 Credit Hours**
- **Electives – 15 Credit Hours**

Core Requirements (6 Credit Hours)

- ENT 6116 Business Plan Development **Credit Hours: 3**
- EIN 6935 Special Industrial Topics II **Credit Hours: 1-3** Taken as **Technology Venture Strategies (3 Credit Hours)**

Additional Required Courses (9 Credit Hours)

- ENT 6126 Strategies in Technology Entrepreneurship **Credit Hours: 3**
- EIN 6935 Special Industrial Topics II **Credit Hours: 1-3** Taken as **Strategic Market Assessments (3 Credit Hours)**
- ENT 6415 Fundamentals of Venture Capital and Private Equity **Credit Hours: 3**

Electives (15 Credit Hours)

Select five (3 Credit Hour) courses

- ENT 6606 New Product Development **Credit Hours: 3 ***
- ENT 6312 Intellectual Property **Credit Hours: 3**
- ENT 6619 Creativity and Design **Credit Hours: 3**
- ENT 6506 Social Entrepreneurship **Credit Hours: 3**
- ENT 6930 Special Topics in Entrepreneurship **Credit Hours: 3 ***
Taken as:
 - Exit Strategies (3 Credit Hours)
 - International Entrepreneurship I (3 Credit Hours)
 - International Entrepreneurship II (3 Credit Hours)
 - EIN 6934 Special Industrial Topics I **Credit Hours: 1-3 ***
 - MAN 6930 Selected Topics **Credit Hours: 1-4** (Marketing) *
 - ENT 6947 Advanced Topics in Entrepreneurship **Credit Hours: 3**
 - ENT 6706 Global Entrepreneurship **Credit Hours: 3**
 - EIN 6430 Overview of Regulated Industries **Credit Hours: 3**
 - GEB 6457 Ethics, Law and Sustainable Business Practices **Credit Hours: 3**
 - BSC 6436 Introduction to Biotechnology **Credit Hours: 3**
 - GMS 6873 Biomedical Ethics **Credit Hours: 3**
 - GMS 7930 Selected Topics **Credit Hours: 1-3** (Principles of Biochemistry and Genetics)
 - GEB 6224 Improvisation in Business Organizations **Credit Hours: 3**
 - ENT 6119 Mergers and Acquisitions: An Entrepreneurial Perspective **Credit Hours: 3**
 - Or other graduate courses which may be approved by the Graduate Director

Comprehensive Exam

In lieu of a comprehensive examination, every student will complete a major project within the Business Plan Development class ENT 6116 Business Plan Development which will provide that the student has met the assurances of learning for successful competition of the program.



Non-Thesis

This is a non-thesis program.

Concurrent Degree

Also available as a Concurrent Degree



Marketing, M.S.M.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Also offered as:

A Concentration under Business Administration (Ph.D.)

Contact Information

College: Muma College of Business

Department: Marketing

Contact Information: <http://www.grad.usf.edu/majors>

Accreditation

Accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

Admission Information

Must meet University Admission and English Proficiency requirements (see Graduate Admissions) as well as requirements for admission to the major, listed below.

The M.S. in Marketing admission committee uses a portfolio approach: the strength of each applicant is determined based on the entire application. The admission committee will consider the following:

- GMAT (preferred), GRE, MCAT, LSAT, and PCAT (submitted scores must be within five (5) years of the term of entry);
- Applicants may request a waiver of GMAT if they meet one of the following requirements:
- Have a Bachelor's degree with a cumulative GPA of 3.50 or greater from the University of South Florida-Tampa
- Have a Bachelor's degree with a cumulative GPA of 3.50 or greater from any State of Florida University that is a preeminent institution (i.e., University of Florida-Gainesville, Florida State University-Tallahassee)
- Have a Bachelor's degree with a cumulative GPA of 3.50 or greater from an AAU school (American Association of Universities).
- Have three (3) or more years of managerial or professional experience
- A statement of purpose;
- Resume
- Relevant professional work experience;
- Any additional information that helps to ensure the potential success of the applicant in the degree program
- For applicants with a 3-year Bachelor's Degree from a regionally-accredited institution, the following requirements need to be met in addition to those listed above: Minimum GMAT score of 650 or a minimum GRE score of at least 321 (combined verbal and quantitative), and a minimum of 25th percentile in the verbal portion of the test. When the 3-year Bachelor's Degree is less than 120 hours from Non-Bologna Accord Institutions, a transcript evaluation from A NACES member is required to confirm equivalency.

Curriculum Requirements

Total Minimum Hours: 30 credit hours



- **Core Requirements – 15 Credit Hours**
- **Specialization – 9 Credit Hours**
- **Electives – 6 Credit Hours**

Prerequisites

These courses may be waived if taken within the last five years from an AACSB accredited program.

During the first year of the major, students who are unable to waive the prerequisites will be required to take:

- MAR 6815 Marketing Management **Credit Hours: 2**
- QMB 6305 Managerial Decision Analysis **Credit Hours: 2**

Core Course Requirements (15 Credit Hours)

- MAR 6839 Creativity and Innovation in Marketing **Credit Hours: 3**
- MAR 6936 Selected Topics in Marketing **Credit(s): 1-4 (3 credits for this program)** (Marketing Analytics)
- MAR 6508 Consumer Behavior Insights **Credit Hours: 3**
- MAR 6735 Digital Marketing **Credit Hours: 3**
- MAR 6816 Marketing Strategy **Credit Hours: 3**

Specialization in the MS (9 Credit Hours)

Take three courses in any area of specialization:

Marketing Analytics

- MAR 6646 Research for Marketing Managers **Credit Hours: 3**
- MAR 6936 Selected Topics in Marketing **Credit Hours: 1-4 (3 credits for this program)** (Data Visualization)
- MAR 6936 Selected Topics in Marketing **Credit(s): 1-4 (3 credits for this program)** (Logistical System Analytics)
- ISM 6217 Database Administration **Credit Hours: 3**
- ISM 6316 Project Management **Credit Hours: 3**
- SPB 6706 Sport Business Analytics **Credit Hours: 3**

Digital Marketing and Brand Management

- MAR 6936 Selected Topics in Marketing **Credit Hours: 1-4 (3 credits for this program)** (Digital Media and E-Commerce)
- MAR 6838 Brand Management **Credit Hours: 3**
- ENT 6606 New Product Development **Credit Hours: 3**
- MAR 6336 Promotional Management **Credit Hours: 3**
- MAR 6936 Selected Topics in Marketing **Credit(s): 1-4 (3 credits for this program)** (Innovations in Marketing)

Supply Chain Management

- SCM 6200 Logistics and Physical Distribution Management **Credit Hours: 3**
- SCM 6006 Supply Chain Management **Credit Hours: 3**
- MAR 6936 Selected Topics in Marketing **Credit Hours: 1-4 (3 credits for this program)** (Logistical Systems and Analytics)



Two Electives

Two electives from the following list or from any of the specializations above:

- MAR 6936 Selected Topics in Marketing **Credit Hours: 1-4 (3 credits for this program)**
- GEB 6527 Lean Six Sigma **Credit Hours: 3**
- ISM 6217 Database Administration **Credit Hours: 3**
- ISM 6156 Enterprise Resource Planning & Business Process Management **Credit Hours: 3**
- MAN 6448 Negotiating Agreement and Resolving Conflict **Credit Hours: 3**
- ESI 6324 Engineering the Supply Chain **Credit Hours: 3**

Electives (6 Credit Hours)

- GEB 6527 Lean Six Sigma **Credit Hours: 3**
- GEB 6224 Improvisation in Business Organizations **Credit Hours: 3**
- MAR 6936 Selected Topics in Marketing **Credit Hours: 1-4 (3 credits for this program)** (Sales Force Management)
- MAR 6936 Selected Topics in Marketing **Credit(s): 1-4 (3 credits for this program)** (courses offered periodically)

Courses from Other Specializations

Outside electives – any 6000 level graduate course for 3 hours (e.g., appropriate courses from Anthropology, Psychology, etc.)

Practicum

Comprehensive Exam

MAR 6816 Marketing Strategy, is the capstone course in the MS program. Students will be required to do one or more comprehensive case analyses in this course that will test their ability to integrate and synthesize various facets of marketing.

Other Requirements

To be granted an M.S. in Marketing degree, a student must have completed all of the required and elective courses with a GPA of 3.00 or higher.



Sport and Entertainment Management, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

Contact Information

College: Muma College of Business

Department: School of Marketing and Innovation

Contact Information: <http://www.grad.usf.edu/majors>

Accreditation

Accredited by the the Association to Advance Collegiate Schools of Business (AACSB)

Major Research Areas

Sport Management, Entertainment, Sport Business Analytics, Sport Marketing, Sport and Social Issues, American Sport Industry, Global Sport Industry, Sport Law, Sport and Entertainment Finance

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- Personal Interview with a committee of program faculty
- Personal Statement addressing career focus and aspirations
- Admission to and completion of the USF MBA or other MBA with a Concentration in Sport Business
- Minimum of 3.00/4.00 average for all graduate work completed

Curriculum Requirements

Total Minimum Hours - 36

- **Core Requirements - 30 credit hours**
- **Internship/Thesis - 6 credit hours**

Core Requirements (30 Credit Hours)

Students complete the three courses indicated with an asterisk as part of the requirements for the MBA with a Concentration in Sport Business. Because these nine hours of coursework are "shared" by the two majors, the 36 credit-hour MS in Sport and Entertainment Management requires an additional 24 hours to complete.

- SPB 6719 Sport and Entertainment Marketing Strategy **Credit Hours: 3 ***
- SPB 6406 Sport and Entertainment Law **Credit Hours: 3 ***
- SPB 6706 Sport Business Analytics **Credit Hours: 3 ***
- SPB 6605 Sport and Social Issues **Credit Hours: 3**
- SPB 6116 Sport and Entertainment Finance **Credit Hours: 3**
- SPB 6735 Global Environment of Sport **Credit Hours: 3**
- SPB 6807 Social Media in Sport **Credit Hours: 3**



- SPB 6608 Issues in the American Sport Industry **Credit Hours: 3**
- SPB 6715 Sales and Fundraising in the Sport Industry **Credit Hours: 3**
- SPB 6930 - Sport Business Project I **Credit(s): 3**

Comprehensive Exam

Internship (6 Credit Hours)

Option to complete thesis in lieu of internship.

- SPB 6946 Internship in Sport and Entertainment Management **Credit Hours: 3 (II)**
- SPB 6946 Internship in Sport and Entertainment Management **Credit(s): 3 (III)**

Sequence

Students should consult with the Graduate Director for advising on course sequencing requirements.

Concurrent Degree

Also available as a Concurrent Degree



Supply Chain Management, M.S.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered partially online.

Contact Information

College: Muma College of Business

Department: School of Marketing and Innovation

Contact Information: <http://www.grad.usf.edu/majors>

The M.S. in Supply Chain Management provides advanced training to working professionals in the supply chain industry who want to advance their supply chain knowledge and skills. The target market is managers who currently hold a bachelor's degree and work in operational areas such as procurement, transportation, information systems, production planning, and inventory management who need the knowledge and tools from the supply chain discipline to advance in their careers.

Major Research Areas

Supply chain management, sustainability, logistics, transportation, distribution, procurement

Accreditation

Accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

Admission Information

Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

The M.S. in Supply Chain Management admission committee uses a portfolio approach. The strength of each applicant is determined based on the entire application. The admission committee will consider the following:

- Resume
- 1-2 page personal statement of purpose
- 2 letters of recommendation.
- Minimum of three years of managerial work experience in the discipline.

Curriculum Requirements

Total Minimum Hours: 32 Credit Hours

- **Core Requirements - 29 Credit hours**
- **Capstone Project - 3 Credit Hours**

Core Requirements (29 Credit Hours)

- SCM 6006 Supply Chain Management **Credit Hours: 3**
- SCM 6200 Logistics and Physical Distribution Management **Credit Hours: 3**



- ISM 6156 Enterprise Resource Planning & Business Process Management **Credit Hours: 3**
- ISM 6436 Operations & Supply Chain Processes **Credit Hours: 3**
- GEB 6527 Lean Six Sigma **Credit Hours: 3**
- SCM 6169 Supply Chain Sustainability and Reverse Logistics **Credit Hours: 3**
- SCM 6935 Seminar in Supply Chain Management **Credit Hours: 3**
- SCM 6206 Logistics Systems and Analytics **Credit Hours: 3**
- BUL 5842 Risk Management and Legal Compliance **Credit Hours: 3**
- MAN 6147 Leadership/Management Concepts **Credit Hours: 2**

Capstone Project (3 Credit Hours)

- SCM 6955 Supply Chain Management Capstone Project **Credit Hours: 3**

Comprehensive Qualifying Exam

The SCM 6955 Supply Chain Management Capstone Project will serve as the Comprehensive Exam, which is required for the M.S. in Supply Chain Management for all USF students.



Patel College of Global Sustainability

Patel College of Global Sustainability

CS - Programs

University of South Florida
Patel College of Global Sustainability
4202 E. Fowler Ave., CGS 101
Tampa, FL 33620

Web address: www.patel.usf.edu

Phone: 813-974-9694

College Dean: Govindan Parayil, Ph.D.

College Information:

The mission of PCGS is achieving sustainable development, both locally and globally, by fostering social, economic and environmental sustainability; we accomplish this through teaching, research, mentoring students and community outreach, as well as by generating practical knowledge and developing innovative technologies, skills and policies.

Drawing from various definitions of "sustainability" we seek to ensure that these efforts both endure and dramatically expand at USF; that they encourage the natural interconnections among those groups on campus addressing ecology, economics, politics and culture; that they recognize the essential contributions of scholars and professionals in engineering, business, architecture and urban planning, transportation, health, global studies and the natural and social sciences; and, that they serve to create and maintain the conditions under which humans and nature can exist in productive harmony, fulfilling the social and economic requirements of present and future generations.

The College employs an elite core faculty and staff, with its real strength being its ability to serve as the hub for a network of scholars and professional experts interested in working together to generate new knowledge and prepare a new generation of sustainability professionals. These professionals will provide their expertise to assist communities, companies, and governments maximize their productivity, reduce their ecological and carbon footprint, practice social responsibility and enhance resilience



Dean's Office

Major



Global Sustainability, M.A.

Priority Admission Application Deadlines: <http://www.grad.usf.edu/majors>

This program is offered fully online. (NOTE: *The Entrepreneurship and Sustainable Business Concentrations are not offered online*)

Concentrations:

- Climate Change and Sustainability
- Entrepreneurship
- Food Sustainability and Security
- Sustainable Business
- Sustainable Energy
- Sustainability Policy
- Sustainable Tourism
- Sustainable Transportation
- Water Sustainability

Also offered as a Concurrent Degree

Contact Information

College: Patel College of Global Sustainability

Contact Information:

<http://www.grad.usf.edu/majors>
www.patel.usf.edu

The mission of PCGS is achieving sustainable development, both locally and globally, by fostering social, economic and environmental sustainability; we accomplish this through teaching, research, mentoring students and community outreach, as well as by generating practical knowledge and developing innovative technologies, skills and policies.

Drawing from various definitions of "sustainability" we seek to ensure that these efforts both endure and dramatically expand at USF; that they encourage the natural interconnections among those groups on campus addressing ecology, economics, politics and culture; that they recognize the essential contributions of scholars and professionals in engineering, business, architecture and urban planning, transportation, health, global studies and the natural and social sciences; and, that they serve to create and maintain the conditions under which humans and nature can exist in productive harmony, fulfilling the social and economic requirements of present and future generations.

The M.A. in Global Sustainability offers nine concentrations, available in a traditional on-campus format, and seven of which are available in fully online and blended formats. The graduate program is designed to prepare students to address complex regional, national, and global challenges related to sustainability and the ability to innovate in diverse cultural, geographic, and demographic contexts. The Patel College of Global Sustainability strives to offer a dynamic curriculum, top-notch internship experiences, and overall superior education for our students

Major Research Areas: Sustainable development, sustainability policy, environmental policy, green communities, ecotourism.

Admission Information



Must meet University Admission and English Proficiency requirements, as well as requirements for admission to the major, listed below.

- GPA of at least 3.25 or greater; alternatively a GPA of at least 3.00 along with a GRE Verbal score of 153 (61 percentile) or higher, Quantitative of 153 (51 percentile) or higher and Analytical Writing of 3.5 or higher. GRE may be waived with relevant professional experience.
- At least two letters of recommendation from professors or supervisors (signed, dated, and on official letterhead).
- Resume
- Letter of Interest (up to 350 words explaining why the student is interested in Sustainability)

Curriculum Requirements

Total Minimum Hours - 30 credits

- Core courses – 12 credit hours
- Concentration courses – 9 credit hours
- Electives – 6 credit hours
- Internship/Research – 3 credit hours
- Comprehensive Exam

Core Courses (12 Credit Hours)

- IDS 6233 Concepts and Principles of Sustainability **Credit Hours: 3**
- IDS 6235 Economics and Finance for Sustainability **Credit Hours: 3**
- IDS 6234 Systems Thinking: The Key to Sustainability **Credit Hours: 3**
- IDS 6272 Research Methods for Sustainability **Credit Hours: 3**

Concentration Requirements (9 Credit Hours Minimum)

Students select at least one concentration.

Climate Change and Sustainability

Choose three of the following courses:

- IDS 6208 Renewable Power Portfolio **Credit Hours: 3**
- IDS 6210 Bioresources for a Sustainable Future **Credit Hours: 3**
- IDS 6244 Waste Not, Want Not: Reconsidering Waste, Repurposing Wasted Resources **Credit Hours: 3**
- IDS 6276 Navigating the Sustainable Food/Energy/Water Nexus **Credit Hours: 3**
- IDS 6280 Climate Change Adaptation and Mitigation **Credit Hours: 3**
- EVR 6216 Advances in Water Quality Policy and Management **Credit Hours: 3**
- PHI 6686 Climate Change and Societal Evolution **Credit Hours: 3**

Entrepreneurship

Choose three of the following courses:

- ENT 6116 Business Plan Development **Credit Hours: 3**
- ENT 6186 Strategic Market Assessment **Credit Hours: 3**



- ENT 6706 Global Entrepreneurship **Credit Hours: 3**
 - ENT 6506 Social Entrepreneurship **Credit Hours: 3**
- Or
- ENT 6930 Special Topics in Entrepreneurship **Credit Hours: 3**
 - IDS 6239 - Entrepreneurship with a Social Impact **Credit(s): 3**

Food Sustainability and Security

Choose three of the following courses:

- IDS 6210 Bioresources for a Sustainable Future **Credit Hours: 3**
- IDS 6244 Waste Not, Want Not: Reconsidering Waste, Repurposing Wasted Resources **Credit Hours: 3**
- IDS 6276 Navigating the Sustainable Food/Energy/Water Nexus **Credit Hours: 3**
- IDS 6270 Sustainable Food Production **Credit Hours: 3**
- IDS 6271 The Future of Food: Environment, Health and Policy **Credit Hours: 3**
- PHC 6515 Food Safety **Credit Hours: 3**
- URP 6444 Global & Community Food Systems **Credit Hours: 3**

Sustainable Business

- GEB 6457 Ethics, Law and Sustainable Business Practices **Credit Hours: 3**

Choose two of the following courses:

- GEB 6527 Lean Six Sigma **Credit Hours: 3**
- MAR 6336 Promotional Management **Credit Hours: 3**
- SCM 6006 Supply Chain Management **Credit Hours: 3**
- MAR 6936 Selected Topics in Marketing **Credit Hours: 1-4 (3 credits for this program)** (Sustainable Marketing)

Sustainable Energy

Choose three of the following courses:

- IDS 6207 Renewable Transportation Fuels **Credit Hours: 3**
- IDS 6208 Renewable Power Portfolio **Credit Hours: 3**
- IDS 6210 Bioresources for a Sustainable Future **Credit Hours: 3**
- IDS 6276 Navigating the Sustainable Food/Energy/Water Nexus **Credit Hours: 3**
- ECH 5931 Special Topics IV **Credit Hours: 1-4 (3 credits for this program)** (Solar Energy and Applications)
- EEL 6289 Sustainable Energy **Credit Hours: 3**

Sustainability Policy

Choose three of the following courses:

- IDS 6216 Implementing the United Nations Sustainable Development Goals **Credit Hours: 3**
- EVR 6937 Seminar in Environmental Policy **Credit Hours: 3**
- PAD 6307 Policy Design and Implementation **Credit Hours: 3**
- URP 6401 Planning for Resilient Communities **Credit Hours: 3**
- URP 6406 Urban Environmental Policy **Credit Hours: 3**



Choose two of the following courses:

Other courses may be considered by concentration Director and PCGS Academic Program Director.

- IDS 6280 Climate Change Adaptation and Mitigation **Credit Hours: 3**
- URP 6316 Land Use Planning **Credit Hours: 3**
- URP 6422 Environmental & Planning Issues in Coastal Communities **Credit Hours: 3**
- URP 6444 Global & Community Food Systems **Credit Hours: 3**
- URP 6439C Disaster Resilient Community **Credit Hours: 3**

Sustainable Tourism

- IDS 6236 Sustainable Tourism Development: Principles & Practices **Credit Hours: 3**
- IDS 6237 Ecotourism and Sustainable Tourism Management for Coastal Habitat and Marine Protection **Credit Hours: 3**

Choose one of the following courses:

- IDS 6280 Climate Change Adaptation and Mitigation **Credit Hours: 3**
- IDS 6216 Implementing the United Nations Sustainable Development Goals **Credit Hours: 3**

Choose two of the following courses:

Other courses may be considered by concentration Director and PCGS Academic Program Director.

- IDS 6244 Waste Not, Want Not: Reconsidering Waste, Repurposing Wasted Resources **Credit Hours: 3**
- OCE 6085 Ocean Policy **Credit Hours: 2**
- HMG 6246 Organizational Effectiveness in Hospitality **Credit Hours: 3**

Sustainable Transportation

Choose three of the following courses:

- IDS 6207 Renewable Transportation Fuels **Credit Hours: 3**
- TTE 5501 Transportation Planning and Economics **Credit Hours: 3**
- TTE 6651 Public Transportation **Credit Hours: 3**
- TTE 6655 Transportation and Land Use **Credit Hours: 3**
- URP 6711 Multimodal Transportation Planning **Credit Hours: 3**

Choose two of the following courses:

Other courses may be considered by concentration Director and PCGS Academic Program Director.

- TTE 6657 Sustainable Transportation **Credit Hours: 3**
- TTE 5205 Traffic Systems Engineering **Credit Hours: 3**
- TTE 6507 Travel Demand Modeling **Credit Hours: 3**
- TTE 6315 Transportation Safety **Credit Hours: 3**

Water Sustainability



Choose three of the following courses:

- IDS 6276 Navigating the Sustainable Food/Energy/Water Nexus **Credit Hours: 3**
- IDS 6245 Sustainable Water Resource Management: Doing More with Less **Credit Hours: 3**
- IDS 6246 Water Sensitive Urban Design for Sustainable Communities **Credit Hours: 3**
- IDS 6247 Water Resources Planning **Credit Hours: 3**
- EVR 6216 Advances in Water Quality Policy and Management **Credit Hours: 3**

Additional Requirements

An additional 6 graduate hours is required. Any other concentration's courses are preferred electives. Other courses may be considered by concentration Director and PCGS Academic Program Director.

Internship/Research Requirement (3 Credit Hours)

The required 3 credit Internship or Research Project will be completed in the student's last semester

Note- for Returned Peace Corps Volunteers (RPCV) in the Peace Corps Coverdell Fellows Program, the required 3 credit hour internship or research project will be fulfilled by completing part or all of the required course locally or nationally.

Choose one of the following:

- IDS 6946 Sustainability Internship **Credit Hours: 3-6 (3 credits for this program)**
- IDS 6935 Capstone Research Project **Credit Hours: 3-6 (3 credits for this program)**

Comprehensive Exam

The Internship or research report serves as the program's comprehensive exam. As part of this process students write a final report and deliver a presentation based on their internship work or research project.

Concurrent Degree

Also available as a Concurrent Degree

Graduate Certificate



Building Sustainable Enterprise Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

Description

This graduate certificate will provide a foundation for designing sustainable organizations and businesses and related concepts pertaining to sustainability. Organizations and businesses from all sectors need to develop sustainable practices and models to minimize their environmental footprint and maximize their social responsibility to all stakeholders to meet the requirements of a sustainable, low carbon economy. The goal of this certificate is to provide participants with the knowledge, literacy, skills and tools they need to create more sustainable organizations.

Course Location/Delivery

The Certificate is offered both partially online and on campus.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our [application process](#) .

* Portfolio applications will be considered.

Pre-Requisites

None.

Curriculum Requirements (12 Credit Hours)

- IDS 6233 Concepts and Principles of Sustainability **Credit Hours: 3**
- IDS 6235 Economics and Finance for Sustainability **Credit Hours: 3**
- GEB 6457 Ethics, Law and Sustainable Business Practices **Credit Hours: 3**

- MAR 6336 Promotional Management **Credit Hours: 3**
- SCM 6006 Supply Chain Management **Credit Hours: 3**
- GEB 6527 Lean Six Sigma **Credit Hours: 3**
- EIN 6936 Special Industrial Topics III **Credit Hours: 1-3**
Advanced Lean Six Sigma (3 Credit Hours)

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.



Time Limit / Average Time to Completion

The approximate time to complete the Certificate is three years.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Climate Change and Sustainability Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered partially online.

Description

The certificate program in Climate Change and Sustainability will provide a strong foundation for students to advance their career by providing the knowledge and skills necessary to address regional, national and global challenges related to climate change. The program will employ an interdisciplinary approach to explore climate vulnerability, mitigation measures, and pathways to adaptation and resilience. The course will also focus on the translation of policy and research into climate-smart mitigation and adaptation strategies for building sustainable and resilient communities through urban planning and sustainable urban development.

Course Location/Delivery

The Certificate is offered both partially online and on campus

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

In addition to your completed application form, transcripts, resume and letter of interest, you will need to submit the following documents:

- Two letters of recommendation, one academic and one professional
- Contact the department for additional requirements

Pre-Requisites

None.

Curriculum Requirements (12 Credit Hours)

- IDS 6233 Concepts and Principles of Sustainability **Credit Hours: 3**
- IDS 6235 Economics and Finance for Sustainability **Credit Hours: 3**

And select two of the following:

- IDS 6210 Bioresources for a Sustainable Future **Credit Hours: 3**
- IDS 6247 Water Resources Planning **Credit Hours: 3**
- IDS 6208 Renewable Power Portfolio **Credit Hours: 3**
- IDS 6276 Navigating the Sustainable Food/Energy/Water Nexus **Credit Hours: 3**
- PHI 6686 Climate Change and Societal Evolution **Credit Hours: 3**



Time Limit / Average Time to Completion

The approximate time to complete the Certificate is two years.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Energy Sustainability Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

Description

Concerns about future economic growth, standards of living, and environmental quality have made sustainable energy a top priority worldwide. The goal of this certificate program is to provide students with a solid understanding of the key principles of sustainability, its economics, and how it is practiced by the energy industry in the form of sustainable transportation fuels and electricity from natural resources with a small carbon footprint.

Course Location/Delivery

The Certificate is offered both fully online and on campus.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

You will be asked to provide two letters of recommendation, one academic and one professional.

Application Process

To learn about the application process, and to access the application, please review our application process

Pre-Requisites

None.

Curriculum Requirements (12 Credit Hours)

- IDS 6233 Concepts and Principles of Sustainability **Credit Hours: 3**
- IDS 6235 Economics and Finance for Sustainability **Credit Hours: 3**

And select two of the following:

- ECH 5931 Special Topics IV **Credit Hours: 1-4**
- EEL 6289 Sustainable Energy **Credit Hours: 3**
- IDS 6207 Renewable Transportation Fuels **Credit Hours: 3**
- IDS 6208 Renewable Power Portfolio **Credit Hours: 3**
- IDS 6210 Bioresources for a Sustainable Future **Credit Hours: 3**
- IDS 6938 Special Topics/Seminars **Credit Hours: 1-6**
- IDS 6276 Navigating the Sustainable Food/Energy/Water Nexus **Credit Hours: 3**

Time Limit / Average Time to Completion



Three years.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Food Sustainability and Security Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered partially online.

Description

Concerns about population growth, human health, and environmental quality have made food sustainability and security a top priority worldwide. The goal of this program is to provide students with a general foundation of sustainable principles and economics and, within this context, with a specialized analysis of food systems, policy, and public health issues.

This certificate program will provide a general foundation in sustainability and a solid understanding of key issues in food systems and safety/security. The program will cover (1) the concepts, principles, economics, and finance of sustainability, as well as transition towards a green economy; (2) food production, distribution, marketing, disposal, and policy; and (3) food safety and security regarding biological, chemical, and physical threats.. It is designed for an audience of a wide range of backgrounds with career interests in the field of food sustainability and security.

Course Location/Delivery

Partially online and at USF Tampa.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

Pre-Requisites

None.

Curriculum Requirements (12 Credit Hours)

- IDS 6233 Concepts and Principles of Sustainability **Credit Hours: 3**
- IDS 6235 Economics and Finance for Sustainability **Credit Hours: 3**

And select two of the following:

- IDS 6271 The Future of Food: Environment, Health and Policy **Credit Hours: 3**
- IDS 6270 Sustainable Food Production **Credit Hours: 3**
- IDS 6938 Special Topics/Seminars **Credit Hours: 1-6**
- IDS 6276 Navigating the Sustainable Food/Energy/Water Nexus **Credit Hours: 3**
- PHC 6515 Food Safety **Credit Hours: 3**
- URP 6444 Global & Community Food Systems **Credit Hours: 3**



Time Limit / Average Time to Completion

The approximate time to complete the Certificate is two years.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Global Sustainability Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

The certificate program in Global Sustainability ensures understanding of the principles of sustainability and the interdependence of the environment, the economy, and social systems to become effective stewards of natural resources and the environment. The program seeks to advance students' ability to understand and address real-world environmental problems; apply systems approach to manage social ecological systems; and develop critical thinking skills for affecting decisions involving environmental policy, resource management, biodiversity conservation and human health.

Location/Delivery

This certificate is offered both at USF Tampa and offered fully online.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process. Please submit:

- to provide two letters of recommendation, one academic and one professional.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Three years

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- IDS 6233 Concepts and Principles of Sustainability **Credit Hours: 3**
- IDS 6235 Economics and Finance for Sustainability **Credit Hours: 3**
- IDS 6234 Systems Thinking: The Key to Sustainability **Credit Hours: 3**
- IDS 6247 Water Resources Planning **Credit Hours: 3**

Contacts



Contact Information: <http://www.grad.usf.edu/cert>



Sustainable Tourism Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

The certificate program will provide a general foundation for sustainable tourism and related concepts of sustainability. It is designed to appeal to an audience with a wide range of backgrounds and interest in the tourism and hospitality industry. The program will be of particular interest to those related to global tourism movements such as the U.N. World Tourism Organization, The International Ecotourism Society, and the Global Sustainability Tourism Council.

Location/Delivery

The Certificate is offered both fully online and on campus.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process. You will be asked to provide two letters of recommendation, one academic and one professional.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Three years

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- IDS 6233 Concepts and Principles of Sustainability **Credit Hours: 3**
- IDS 6235 Economics and Finance for Sustainability **Credit Hours: 3**

And select two of the following:

- IDS 6236 Sustainable Tourism Development: Principles & Practices **Credit Hours: 3**
- IDS 6237 Ecotourism and Sustainable Tourism Management for Coastal Habitat and Marine Protection **Credit Hours: 3**
- OCE 6085 Ocean Policy **Credit Hours: 2**
- IDS 6938 Special Topics/Seminars **Credit Hours: 1-6**
 - Organizational Effectiveness (3 Credit Hours) (HMG 6246)
 - Climate Change Adaptation and Mitigation (3 Credit Hours) (IDS 6247)



- OCE 6934 Selected Topics in Oceanography **Credit Hours: 1-3**
Port Sustainability (3 Credit Hours)

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Sustainable Transportation Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered partially online.

The predominant focus on automobile transportation has led to a variety of consequences that are less than sustainable such as urban sprawl, rising rates of obesity, growth in green house gas emissions, habitat degradation, dependence on fossil fuels, and equality concerns. The goal of this certificate is to provide students with the knowledge, literacy, skills and tools they need to develop plans for sustainable transportation.

Location/Delivery

This certificate is offered partially online and at the USF Tampa campus.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process.

* Portfolio applications will be considered.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

The approximate time to complete the Certificate is three years.

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- IDS 6233 Concepts and Principles of Sustainability **Credit Hours: 3**
- IDS 6235 Economics and Finance for Sustainability **Credit Hours: 3**

And select two of the following:

- TTE 6655 Transportation and Land Use **Credit Hours: 3**
- TTE 6651 Public Transportation **Credit Hours: 3**
- URP 6711 Multimodal Transportation Planning **Credit Hours: 3**

Contacts

Contact Information: <http://www.grad.usf.edu/cert>



Water Sustainability Graduate Certificate

Application deadlines - <http://www.grad.usf.edu/cert>

This program is offered fully online.

This certificate program is based on a multidisciplinary approach to sustainable water management. It will present water management issues from a technological, economics and policy perspective. The program will provide students with general knowledge on sustainability and deeper understanding of water management in a sustainable manner. It is open to students from multiple disciplines (Engineering, natural sciences and social sciences) and will build knowledge and skills for holistic and integrated approaches to water management in the face of complex global challenges.

Location/Delivery

The Certificate is offered both fully online and on campus.

Admission Requirements

Must meet University Graduate Admissions and English Proficiency requirements.

Application Process

To learn about the application process, and to access the application, please review our application process. You will be asked to provide two letters of recommendation, one academic and one professional.

Credit Toward Graduate Degree

Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

Time Limit / Average time to Completion

Two years.

Pre-Requisites

None

Curriculum Requirements (12 Credit Hours)

- IDS 6233 Concepts and Principles of Sustainability **Credit Hours: 3**
- IDS 6235 Economics and Finance for Sustainability **Credit Hours: 3**

And select two of the following:

- CGN 6933 Special Topics in Civil and Environmental Engineering **Credit Hours: 1-4**
- IDS 6276 Navigating the Sustainable Food/Energy/Water Nexus **Credit Hours: 3**
- IDS 6245 Sustainable Water Resource Management: Doing More with Less **Credit Hours: 3**
- IDS 6246 Water Sensitive Urban Design for Sustainable Communities **Credit Hours: 3**
- IDS 6247 Water Resources Planning **Credit Hours: 3**

Contacts



Contact Information: <http://www.grad.usf.edu/cert>



Course Information

USF Graduate Course Information

For a list of specific courses, refer to the Course Descriptions section.

Courses offered for credit by the University of South Florida are part of the State Course Numbering System (see below). They are listed with the Program or College that offers them. Courses are numbered based on content, rather than by department or program. This means that a single program may have courses in several different disciplines and may consist of courses having several different prefixes.

The University reserves the right to substitute, not offer, and add courses and programs that are listed in this catalog.

Course Levels:

| | |
|------------|----------------------------------|
| 0 PSAV | College Prep, vocational prep |
| 1-2 | Lower Level Undergraduate |
| 2-4 | Upper Level Undergraduate |
| 5-9 | Graduate and Professional |

USF Graduate Course Level Variance Definitions

It is expected that the 5000-6000-7000 coursers will have distinct syllabi demonstrating different depth and breadth of the subject matter as reflected in the course requirements. The courses presuppose different audiences, and the intention is to offer them at distinct levels.

5000-5999 Typically Introductory Graduate Level Courses

6000-6999 Typically Master's Level Courses

7000-7999 Typically Doctoral Level Courses

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The

prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

Abbreviations used in 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 |
| DPR | Departmental Permit Required |
| 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 |

Florida's Statewide Course Numbering System (SCNS)

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and by participating nonpublic institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use



Use the online SCNS to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at <http://scns.fldoe.org>.

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

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

Example of Course Identifier:

| Prefix | Level Code | Century Digit | Decade Digit | Unit Digit | Lab Code |
|---------------------|--|----------------------|-----------------------------|-------------------------------|--|
| ENC | 1 | 1 | 0 | 1 | |
| English Composition | Lower (Freshman) Level at this institution | Freshman Composition | Freshman Composition Skills | Freshman Composition Skills 1 | No Laboratory component in this course |

General Rule for Course Equivalencies

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

For example, a freshman composition skills course is offered by 84 different public and nonpublic postsecondary institutions. Each institution uses

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

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

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example,

ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at a Florida College System institution is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

NOTE: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term system. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational

institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency



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

- Courses not offered by the receiving institution.
- For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
- Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses, and Dissertations.
- Applied academics for adult education courses.
- Graduate courses.
- Internships, apprenticeships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999.
- Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

Note: Transferability is at the discretion of the receiving institution.



Course Descriptions

Note - listings are by subject area prefix, not department code.

ACG 5007 Credit Hours: 0

MBA Essentials: Accounting

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.

USF | Muma College of Business |

ACG 5375 Credit Hours: 3

Valuation of Closely Held Businesses

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.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 5675 Credit Hours: 3

Internal and Operational Auditing

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.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6025 Credit Hours: 2

Financial Accounting for Managers

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.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6028 Credit Hours: 3

Measuring Organizational Effectiveness

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 well, and at what cost, these organizations are able to achieve strategic/operating goals and objectives.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6346 Credit Hours: 3

Contemporary Issues in Managerial Accounting

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.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6457 Credit Hours: 3

Accounting Systems Audit, Control, and Security

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.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6496 Credit Hours: 3

Computer Forensics and Accounting

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.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6678 Credit Hours: 3

Legal Aspects of Fraud and Information Assurance

This course covers various aspects of the detection, investigation and prevention of complex financial crimes including accounting fraud, corporate fraud, economic fraud, public corruption, white-collar crimes, cybercrimes, and the related legal issues.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6687 Credit Hours: 3

Fraud and Financial Reporting

An examination of financial reporting fraud from the standpoint of a both a financial statement user and an accountant, exploring the ways in which financial statement frauds are committed.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6835 Credit Hours: 3

Accounting Skills, Values, and Information Technology



This course is designed to introduce Master of Accountancy students to the basic skills, competencies, and technologies of accounting.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6875 Credit Hours: 3

Financial Reporting and Professional Issues

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.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6915 Credit Hours: 1-19

Directed Research

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 6936 Credit Hours: 1-4

Selected Topics in Accounting

The course content will depend on student demand and instructor's interest.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 7356 Credit Hours: 3

Seminar in Management Accounting

Review and critical analysis of management accounting foundation with emphasis on the current research methods in organizational behavior aspects and multiple criteria decision methods.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 7646 Credit Hours: 3

Seminar in Auditing

This course involves a study of state-of-the-art research techniques as applied to major auditing issues and a critical analysis of the reported research findings.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ACG 7939 Credit Hours: 2-4

Executive Issues in Accounting

A research seminar for executives that explores contemporary issues in accounting. The specific theme of the seminar will be determined through consultations between the instructor and the students prior to the first class meeting.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

ADE 6070 Credit Hours: 3

International Adult Education

Provides a survey of the field of international adult education. Current practices and historical efforts internationally will be explored.

USF | College of Education I

ADE 6160 Credit Hours: 3

Program Management in Adult Education

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.

USF | College of Education I

ADE 6197 Credit Hours: 3

Adult Basic Education

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.

USF | College of Education I

ADE 6287 Credit Hours: 3

Supervision of Local Adult Education Programs

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.

USF | College of Education I

ADE 6370 Credit Hours: 3

Human Resource Development

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.

USF | College of Education I

ADE 6389 Credit Hours: 3

Adult Learning and Cognitive Styles

The course focuses on a foundational knowledge of brain-based learning and its impact on adult learners, including critique and assessment of learning styles.

USF | College of Education I

ADE 6931 Credit Hours: 1-5

Selected Topics in ADE and HRD

Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic.



USF | College of Education |

ADE 6966 Credit Hours: 3

Final Master's Seminar

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.

USF | College of Education |

ADE 7076 Credit Hours: 3

Continuing Education in Higher Education

This course will explore the history, relevant research and the current practices in community college and higher education continuing education program and administrative units.

USF | College of Education |

ADE 7268 Credit Hours: 3

Leadership in Adult Continuing Education and HRD

This course is a study of leadership theory, public policy analysis, best practices and related leadership research in adult continuing education and human resource development.

USF | College of Education |

ADE 7388 Credit Hours: 3

Adult Development and Learning

This is an advanced, in-depth study of the distinctive characteristics of adult life and learning.

USF | College of Education |

ADE 7677 Credit Hours: 3

Emerging Trends in Adult Education: Critical Race Theory

Seminar for doctoral students(master's students by permission of the professor) where we critically examine and explore critical race theory regarding the degree of its theoretical relevance and contribution to educational practice.

USF | College of Education |

ADE 7930 Credit Hours: 3

Seminar in Adult Education

This is an intensive induction into doctoral studies in adult education stressing scholarly inquiry, professionalism, collegiality, and the doctoral degree process.

USF | College of Education |

ADE 7947 Credit Hours: 2-4

Advanced Internship: Adult Education

Practical application in a clinical setting of knowledge acquired in the classroom. Hours may vary. May vary within an institution.

USF | College of Education |

ADV 5005 Credit Hours: 3

Advertising Planning

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

ADV 5825 Credit Hours: 3

Advertising Proseminar

Students will learn the basic concepts of advertising, public relations, promotion, branding, and direct marketing and their applications for integrated marketing campaigns.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

ADV 6505 Credit Hours: 3

Advertising Research

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

AFA 6108 Credit Hours: 3

Social Construction of Race and Racism

Examinations of the social construction of race, racism, racial identities and cross-racial relationships in the US from the colonial period to present.

USF | College of Arts and Sciences | Africana Studies

AFA 6207 Credit Hours: 3

African American Historiography

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.

USF | College of Arts and Sciences | Africana Studies

AFA 6387 Credit Hours: 3

Seminar on Genocide and Human Rights

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."



USF | College of Arts and Sciences | Africana Studies

AFA 6905 Credit Hours: 1-19

Independent Study

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.

USF | College of Arts and Sciences | Africana Studies

AFA 6932 Credit Hours: 3

Topics in Africana Studies

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.

USF | College of Arts and Sciences | Africana Studies

AFA 6971 Credit Hours: 2-19

Thesis

Thesis.

USF | College of Arts and Sciences | Africana Studies

AMH 6199 Credit Hours: 3

Nineteenth-Century United States History

The history of the United States from the end of the American Revolution through the end of the nineteenth-century. Topics include: cultures of liberalism and democracy; slavery and freedom; emancipation and Reconstruction, and immigration.

USF | College of Arts and Sciences | History

AML 5305 Credit Hours: 3

Studies in Individual American Authors

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.

USF | College of Arts and Sciences | English

AML 6018 Credit Hours: 3

Studies in American Literature 1860 to 1920

Selected focused studies in American literature: Dickinson, Whitman, Twain, Howells, James, Jewett, Chopin, Crane, Dreiser, and others.

USF | College of Arts and Sciences | English

AML 6608 Credit Hours: 3

Studies in African American Literature

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.

USF | College of Arts and Sciences | English

AMS 6002 Credit Hours: 3

American Lives

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.

USF | College of Arts and Sciences | Humanities and Cultural Studies

AMS 6156 Credit Hours: 3

Theories and Methods of Cultural Studies

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.

USF | College of Arts and Sciences | Humanities and Cultural Studies

AMS 6805 Credit Hours: 3

Enduring Questions in American Culture

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.

USF | College of Arts and Sciences | Humanities and Cultural Studies

AMS 6915 Credit Hours: 1-12

Directed Research

Directed research course.

USF | College of Arts and Sciences | Humanities and Cultural Studies

AMS 6938 Credit Hours: 3

Research Seminar

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.

USF | College of Arts and Sciences | Humanities and Cultural Studies

AMS 6971 Credit Hours: 2-19

Thesis: Master's

A Master's thesis course.



USF | College of Arts and Sciences | Humanities and Cultural Studies

ANG 5406 Credit Hours: 3

Ethnobotany: People, Plants and Culture

This course examines the structure and function of plants, the development of the field of ethnobotany, and the practice of ethnobotany.

USF | College of Arts and Sciences | Anthropology

ANG 5901 Credit Hours: 1-4

Directed Reading

Individual guidance in concentrated reading on a selected topic in Anthropology. Contract required prior to registration.

USF | College of Arts and Sciences | Anthropology

ANG 5937 Credit Hours: 2-4

Seminar in Anthropology

Topics to be chosen by students and instructor.

USF | College of Arts and Sciences | Anthropology

ANG 6084 Credit Hours: 3

Anthropological Theory Today

This course provides an overview of contemporary theorizing in social and cultural anthropology for graduate students.

USF | College of Arts and Sciences | Anthropology

ANG 6110 Credit Hours: 3

Archaeology Theory and Current Issues

Methodology and theory in archaeology, analysis, interpretation of data.

USF | College of Arts and Sciences | Anthropology

ANG 6153 Credit Hours: 3

Topics in North American Archaeology

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.

USF | College of Arts and Sciences | Anthropology

ANG 6163 Credit Hours: 3

Topics in Mesoamerican Archaeology

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.

USF | College of Arts and Sciences | Anthropology

ANG 6175 Credit Hours: 3

Topics in Mediterranean Archaeology

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.

USF | College of Arts and Sciences | Anthropology

ANG 6195 Credit Hours: 3

Ancient Trade

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.

USF | College of Arts and Sciences | Anthropology

ANG 6198 Credit Hours: 3

Regional Problems in Methods of Public Archaeology

Contemporary problems in Public Archaeology in the context of a specific region. Open to non-majors.

USF | College of Arts and Sciences | Anthropology

ANG 6302 Credit Hours: 3

Gender in Cross-Cultural Perspective

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.

USF | College of Arts and Sciences | Anthropology

ANG 6393 Credit Hours: 3

Anthropology, Contemporary Culture and the Media

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.

USF | College of Arts and Sciences | Anthropology

ANG 6436 Credit Hours: 3

Issues in Heritage Tourism

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.

USF | College of Arts and Sciences | Anthropology

ANG 6448 Credit Hours: 3



Regional Problems in Urban Anthropology

Contemporary problems in Urban Anthropology in the context of a specific region. Open to non-majors.

USF | College of Arts and Sciences | Anthropology

ANG 6465 Credit Hours: 3

Regional Problems in Medical Anthropology

Contemporary problems in Medical Anthropology in the context of a specific region. Open to non-majors.

USF | College of Arts and Sciences | Anthropology

ANG 6490 Credit Hours: 3

Seminar in Cultural Anthropology

A critical advanced survey of Cultural Anthropology emphasizing contributions to Applied Anthropology, required of all MA students.

USF | College of Arts and Sciences | Anthropology

ANG 6497 Credit Hours: 3

Qualitative Research Methods in Anthropology

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.

USF | College of Arts and Sciences | Anthropology

ANG 6516 Credit Hours: 3

Human Variation

This course is designed to provide students with an overview of human genetic, phenotypic, and demographic variation from both evolutionary and bio-cultural perspectives, looking at both past and present approaches to understanding human diversity.

USF | College of Arts and Sciences | Anthropology

ANG 6533 Credit Hours: 3

Anthropology of Human Growth and Development

Overview of human growth and development from a perspective that combines biological and cultural approaches in anthropology.

USF | College of Arts and Sciences | Anthropology

ANG 6570 Credit Hours: 3

Nutritional Assessment

Overview of basic nutritional assessment methods used in anthropology, nutritional sciences, and public health.

USF | College of Arts and Sciences | Anthropology

ANG 6584 Credit Hours: 3

Evolution and Life History Theory

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.

USF | College of Arts and Sciences | Anthropology

ANG 6701 Credit Hours: 3

Contemporary Applied Anthropology

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.

USF | College of Arts and Sciences | Anthropology

ANG 6706 Credit Hours: 3

Foundations of Applied Anthropology II

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.

USF | College of Arts and Sciences | Anthropology

ANG 6731 Credit Hours: 3

Health and Disasters

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.

USF | College of Arts and Sciences | Anthropology

ANG 6733 Credit Hours: 3

Issues in Migrant Health

This course provides an overview of health issues associated with transnational migration from an anthropological point of view.

USF | College of Arts and Sciences | Anthropology

ANG 6739 Credit Hours: 3

Applied Anthropology and International Health

An advanced international anthropology course on the health issues, organization, people, policies and limitations of the arena of international health.

USF | College of Arts and Sciences | Anthropology

ANG 6745 Credit Hours: 3

Forensic Anthropology

Provides a general introduction to the methods, theories, and techniques of Biological Anthropology as applied to medico-legal death investigations.

USF | College of Arts and Sciences | Anthropology



ANG 6766 Credit Hours: 3

Research Methods in Applied Anthropology

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.

USF | College of Arts and Sciences | Anthropology

ANG 6771 Credit Hours: 3

The Science of Missing and Unidentified Persons

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.

USF | College of Arts and Sciences | Anthropology

ANG 6905 Credit Hours: 1-19

Independent Study

Independent study in which students must have a contract with an instructor.

USF | College of Arts and Sciences | Anthropology

ANG 6971 Credit Hours: 2-19

Thesis: Master's

USF | College of Arts and Sciences | Anthropology

ANG 7703 Credit Hours: 3

History and Theory of Applied Anthropology

The history and theoretical development of Applied Anthropology, including cultural resources management are discussed in the context of the overall development of Anthropology as a discipline and profession.

USF | College of Arts and Sciences | Anthropology

ANG 7708 Credit Hours: 3

Selected Topics in Applied Anthropology

An overview of Applied Anthropology in its relation to a major mode of public/private activity, e.g., planning, clinical practice, policy process, or advocacy.

USF | College of Arts and Sciences | Anthropology

ANG 7905 Credit Hours: 1-15

Directed Individual Study

An advanced reading program of selected topics in Applied Anthropology under the supervision of an anthropology faculty member. A written contract describing requirements must be signed by the student and faculty member prior to registration.

USF | College of Arts and Sciences | Anthropology

ANG 7938 Credit Hours: 3

Doctoral Proseminar in Applied Anthropology

Emphasizing the process of doing "four-field" anthropology (biological, archeological, linguistic, and cultural), conceptualizing research questions, identifying, gathering and analyzing data. How application and theory are integrated and how this integration is vital to the conduct of good anthropology with a variety of anthropological ideas.

USF | College of Arts and Sciences | Anthropology

ANG 7980 Credit Hours: 2-15

Dissertation: Doctoral

USF | College of Arts and Sciences | Anthropology

APK 6109 Credit Hours: 3

Cardiorespiratory Aspects of Exercise Physiology

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.

USF | College of Education |

APK 6116 Credit Hours: 3

Neuromuscular Aspects of Exercise Physiology

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.

USF | College of Education |

APK 6431 Credit Hours: 3

Stress Management and Mental Performance

This course will focus on the psychophysiological effects of stress and its impact on physical and mental performance.

USF | College of Education |

APK 6902 Credit Hours: 3

Controversies in Exercise and Nutrition Science

Introduces current controversies in exercise & nutrition science. Students read and critically analyze scientific papers presenting opposing conclusions on specific topics and come to their own conclusion based on their interpretation of the literature.

USF | College of Education |

ARC 5216 Credit Hours: 3

The Building Arts

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.

USF | College of The Arts | Architecture and Community Design

ARC 5361 Credit Hours: 9

Core Design I

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.

USF | College of The Arts | Architecture and Community Design

ARC 5363 Credit Hours: 6

Core Design III

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.

USF | College of The Arts | Architecture and Community Design

ARC 5365 Credit Hours: 6

Advanced Design B

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.

USF | College of The Arts | Architecture and Community Design

ARC 5467 Credit Hours: 3

Materials and Methods of Construction

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.

USF | College of The Arts | Architecture and Community Design

ARC 5587 Credit Hours: 3

Structures I

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.

USF | College of The Arts | Architecture and Community Design

ARC 5689 Credit Hours: 3

Environmental Technology

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.

USF | College of The Arts | Architecture and Community Design

ARC 5732 Credit Hours: 3

Architectural History II

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.

USF | College of The Arts | Architecture and Community Design

ARC 5793 Credit Hours: 3

History Abroad

Summer study abroad. Location and description varies from year to year.

USF | College of The Arts | Architecture and Community Design

ARC 5920 Credit Hours: 5

Architectural Design Studio Abroad

Summer study abroad. Location and description varies from year to year.

USF | College of The Arts | Architecture and Community Design

ARC 6176 Credit Hours: 3

Advanced Computer Technology

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.

USF | College of The Arts | Architecture and Community Design



ARC 6288 Credit Hours: 3

Professional Practice II

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.

USF | College of The Arts | Architecture and Community Design

ARC 6372 Credit Hours: 3

The Neighborhood

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.

USF | College of The Arts | Architecture and Community Design

ARC 6397 Credit Hours: 3

Introduction to Urban Design Theory, Methods & Processes

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.

USF | College of The Arts | Architecture and Community Design

ARC 6471 Credit Hours: 3

Advanced Topics in Materials and Methods

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.

USF | College of The Arts | Architecture and Community Design

ARC 6692 Credit Hours: 3

Advanced Topics in Environmental Technology

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.

USF | College of The Arts | Architecture and Community Design

ARC 6936 Credit Hours: 2

Research Methods in Architecture

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.

USF | College of The Arts | Architecture and Community Design

ARC 6974 Credit Hours: 2

Master's Project Planning

The Master's Project
 ([[permalink=1219|tooltip: {'title': 1}]]%prefix%
 %code%[[/permalink]]) 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.

USF | College of The Arts | Architecture and Community Design

ARH 5226 Credit Hours: 4

Art of the Medieval and Renaissance Book

Examines the book as a visual arts medium in Europe from the period of the emergence of manuscripts in modern book form (the codex, circa 4th century CE) to the invention of printing (circa 1454) and its aftermath in the late 15th and 16th centuries.

USF | College of The Arts | School of Art and Art History

ARH 5577 Credit Hours: 4

Cross-Cultural Interactions in Islamic Art

Seminar that examines the cross-cultural encounters between the Islamic and non-Islamic worlds from an aesthetic and art-historiographical perspective.

USF | College of The Arts | School of Art and Art History

ARH 5816 Credit Hours: 4

Research in Art History

This course examines research methods and sources in art history.

USF | College of The Arts | School of Art and Art History

ARH 6055 Credit Hours: 1-4

Art History

A contract for research in any elective area of Art History.

USF | College of The Arts | School of Art and Art History



ARH 6868 Credit Hours: 4

Current Historiography: 20th Century

A critical examination of current art historical scholarship on 20th century art.

USF | College of The Arts | School of Art and Art History

ART 5390C Credit Hours: 4

Drawing

Advanced problems in various drawing techniques. Emphasis on individual creative expression. Repeatable.

USF | College of The Arts | School of Art and Art History

ART 5580C Credit Hours: 4

Painting

Research in painting

USF | College of The Arts | School of Art and Art History

ART 5790C Credit Hours: 4

Ceramics

Advanced problems in the various ceramic techniques, including throwing and glaze calculation. Repeatable.

USF | College of The Arts | School of Art and Art History

ART 6391C Credit Hours: 4

Drawing

Advanced graduate research in drawing.

USF | College of The Arts | School of Art and Art History

ART 6581C Credit Hours: 4

Painting

Advanced graduate research in painting.

USF | College of The Arts | School of Art and Art History

ART 6791C Credit Hours: 4

Ceramics

Advanced graduate research in ceramics.

USF | College of The Arts | School of Art and Art History

ART 6811 Credit Hours: 3

Paris Art Studio

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 post modern 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.

USF | College of The Arts | School of Art and Art History

ART 6895 Credit Hours: 3

Graduate Seminar I

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.

USF | College of The Arts | School of Art and Art History

ART 6897 Credit Hours: 3

Critical Writing Seminar

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.

USF | College of The Arts | School of Art and Art History

ART 6911 Credit Hours: 1-19

Directed Research

Directed Research in which student must have a contract with an instructor.

USF | College of The Arts | School of Art and Art History

ART 6940 Credit Hours: 1-4

Selected Topics in Art

Variable credit depending upon the scope and magnitude of the work agreed to by the student and the responsible member of the faculty.

USF | College of The Arts | School of Art and Art History

ART 6971 Credit Hours: 2-19

Thesis: Master's

USF | College of The Arts | School of Art and Art History

ATR 5125 Credit Hours: 3

Anatomical Basis of Clinical Practice in Sports Medicine

By way of laboratory prosection of cadavers, this class will provide an opportunity for students to gain an in-depth understanding of human anatomy. This course examines anatomy of the extremities, back, thorax, abdomen, pelvis and perineum.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 5218C Credit Hours: 4

Physical Examination II

The study and practice of skills and techniques essential for the evaluation of orthopaedic injuries. Students will learn to formulate an impression of the injury/condition in order to



provide the basis for an initial treatment plan and medical referral.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 5307C Credit Hours: 4

Therapeutic Interventions II

Theory and application methods of comprehensive therapeutic treatment and rehabilitation programs for injuries commonly sustained by the physically active.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 5319 Credit Hours: 3

Rehabilitation Considerations for Children

Addresses the principles of rehabilitation for children. This course will entail advanced anatomical, physiological and psychological aspects of sports injury in the youth population.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 5347C Credit Hours: 1

Health and Wellness Promotion Across the Lifespan II

Techniques in conducting health fitness tests and exercise prescription including cardiorespiratory fitness, flexibility, weight control and nutrition as it relates to a healthy lifestyle.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 5435 Credit Hours: 3

Medical Conditions

Pathology, physical examination, referral and treatment related to non-orthopedic conditions in the active population. Specific diagnostic tests and physical examination procedures will also be addressed.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 5515 Credit Hours: 3

Administration of Injury Prevention Programs

Discusses the development and implementation of injury prevention programs for youth sports. Issues such as research, budgeting, marketing, and measuring effectiveness are identified.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 5605 Credit Hours: 3

Youth Injury Epidemiology

Key issues in epidemiology, injury etiology, risk factors related to both internal and external variables, and the efficacy and

effectiveness of preventive measures in regard to youth sport injury will be analyzed and discussed.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 5815 Credit Hours: 1

Clinical Experience in Athletic Training I

Performance of basic athletic training skills under the supervision of a clinical instructor at various sites. Students develop competence in introductory athletic training skills. Focus on equipment intensive sports. A weekly seminar also required.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 5835C Credit Hours: 1-3

Clinical Practicum in Athletic Training

Performance of mid-level athletic training skills under the supervision of a preceptor at various sites. Students develop competence in mid-level and advanced athletic training skills.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 6115 Credit Hours: 2

Preventing Sudden Death in Sport II

Provide an overview of the general concepts and principles related to the causes of sudden death in sport. This course will deal with specific and potentially life-threatening conditions.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 6226 Credit Hours: 3

Advanced Athletic Training

This course designed to expose the Senior Athletic Training Students to current concepts and techniques in the evaluation and treatment of musculoskeletal conditions. Didactic sessions will be supplemented with physical exam assessment skills.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 6236 Credit Hours: 3

Pediatric Sports Medicine

Addresses the unique orthopaedic conditions commonly seen in adolescents. Musculoskeletal issues, such as disease process, genetic abnormalities, infectious disease, mechanism of injury, overuse, protective equipment, immature skeletal disruption, etc.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 6514 Credit Hours: 1

Ethical & Legal Issues in Healthcare



Designed to develop awareness of ethical & legal issues required for athletic trainers to deliver healthcare. Develops a broad understanding of the ethical & legal issues related to healthcare delivery, emphasizing legal terminology and applicability.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 6615 Credit Hours: 3 Evidence Based Research and Writing

A thorough look at the process of utilizing evidence-based medicine to advance healthcare. The importance of applying medical outcomes to clinical practice; recent research; & components of conducting & publishing research in the field of sport medicine.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 6626 Credit Hours: 3 Capstone Project 1

The capstone project is a cumulative work that exemplifies a scientific body of knowledge that contributes to the field of AT. CP-1 focuses on identifying a problem, reviewing literature, & developing a plan to enhance the healthcare of young athletes.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 6835 Credit Hours: 4 Clinical Experience in Athletic Training III

Performance of mid-level athletic training skills under the supervision of a clinical instructor at various sites. Experience will also include general medical experience and surgery observation. Weekly seminar also required.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

ATR 6920 Credit Hours: 3 Athletic Training Professional Colloquium

The Athletic Training Professional Colloquium course is a week-long in-residence course led by leaders in the profession of athletic training. A variety of topics are covered, including national trends, association issues, and professional challenges.

USF | Morsani College of Medicine | Orthopaedics and Sports Medicine

BCH 5105 Credit Hours: 1-3 Biochemistry Laboratory Rotations

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.

USF | College of Arts and Sciences | Chemistry

BCH 6411 Credit Hours: 4 Biomedical Genomics and Genetics

An overview of Biomedical Genomics & Genetics and current and potential applications in biology & medicine, including identification of gene defects and the use of genetic tools for diagnosis and treatment of disease.

USF | Morsani College of Medicine | Medical Sciences

BCH 6746 Credit Hours: 3 Structural Biology

The theory and application of modern physical biochemical techniques.

USF | Morsani College of Medicine | Medical Sciences

BCH 6888 Credit Hours: 3 Bioinformatics

An introduction to computer software applications for research in Biochemistry and Molecular Biology. Emphasis on database searching and submission, data analysis and graphical presentation, DNA and protein sequence analysis and molecular modeling. Lec./Pro.

USF | Morsani College of Medicine | Medical Sciences

BCH 6935 Credit Hours: 2 Grant Writing and Scientific Communication

Development of skills related to scientific communication, including the preparation of effective scientific manuscripts and related communications, and the preparation of fundable grant proposals.

USF | Morsani College of Medicine | Medical Sciences

BCH 6943 Credit Hours: 2 Bioinformatics Internship II

This course focuses on applications of bioinformatics and computational biology principles in a practical environment necessary for an "in-depth" understanding of how the methodologies of bioinformatics can be applied to solve bioscience problems.

USF | Morsani College of Medicine | Medical Sciences

BME 5105 Credit Hours: 3 Introduction to Biomedical Engineering

This course is designed to introduce students from engineering and other disciplines to a range of topics in biomedical engineering. The course will cover engineering tools and techniques applied to medicine and biology.

USF | College of Engineering | Medical Engineering

BME 5910 Credit Hours: 1-3 Directed Research in Bioengineering



Directed research in an area of biomedical engineering or engineering biotechnology.

USF | College of Engineering | Medical Engineering

BME 6000 Credit Hours: 3

Biomedical Engineering

Biomedical engineering analysis, including biomedical thermodynamics, biomechanics, biomaterials, medical imaging, biomedical instrumentation, tissue/cellular engineering, clinical engineering, prosthetic/medical devices, and regulatory issues.

USF | College of Engineering | Medical Engineering

BME 6055 Credit Hours: 3

Modern Biomedical Technologies

In this class students will learn about new possibilities brought by development of interfaces between human body and computers, creation of artificial body parts, deciphering of brain signals and design of new generation biomedical instruments.

USF | College of Engineering | Medical Engineering

BME 6108 Credit Hours: 3

Biomaterials II Biocompatibility

Biocompatibility issues of biomaterials, including inflammation, wound healing, foreign body response, toxicity, blood coagulation, tumorigenesis, infection, and related issues including testing. Degradation of materials in the biological environment.

USF | College of Engineering | Medical Engineering

BME 6340 Credit Hours: 3

Biomedical Fluids and Cardiovascular Engineering

Roles of mechanics & transport phenomena in pathology, diagnosis & treatment of cardiovascular disease. Intro to methods for assessing hemodynamics & cardiovascular health -Doppler echocardiography & MRI. Cardiovascular devices. Open to non-majors.

USF | College of Engineering | Medical Engineering

BME 6420 Credit Hours: 3

Human Sensory Processes

Biological and engineering aspects of the human sensory system (vision, hearing, taste, smell, touch, pain, etc.), including normal and impaired performance, engineering models, and prosthetic device design considerations.

USF | College of Engineering | Medical Engineering

BME 6573 Credit Hours: 3

Nano-medicine

This course will provide a basic knowledge of the principles, technology and applications of nanotechnology in medicine with special emphasis on recombinant DNA technology, protein

engineering, drug delivery, biomaterials, MEMs & tissue engineering.

USF | College of Engineering | Medical Engineering

BME 6905 Credit Hours: 1-6

Directed Independent Study

Directed independent study in biomedical engineering.

USF | College of Engineering | Medical Engineering

BME 6920 Credit Hours: 1

Seminar in Biomedical Engineering

Seminar in biomedical engineering. Speakers will address current research topics in biomedical engineering, including biomechanics, cardiovascular engineering, sensors, tissue engineering, and drug delivery. Can be repeated up to 3 total credits.

USF | College of Engineering | Medical Engineering

BME 6944 Credit Hours: 1-6

Biomedical Engineering Industrial Internship

Individual study as practical engineering work at an industrial facility or laboratory under the supervision of a faculty member interacting with the sponsoring industrial facility or laboratory.

USF | College of Engineering | Medical Engineering

BME 7915 Credit Hours: 1-6

Directed Research in Biomedical Engineering

Directed research in an advanced topic in biomedical engineering.

USF | College of Engineering | Medical Engineering

BMS 5005 Credit Hours: var.

Introduction to the Health Professions

This course will introduce MD and DPT students to principles and practice of interprofessional collaboration. A series of group exercises will require interprofessional groups to collaborate around such tasks as investigating modern approaches to the epidemiology and therapy chronic diseases, roleplaying and empathizing with underprivileged patients, learning basic life support, and an outdoor cooperative physical activity. There will also be introductions to the curricula and to the human body.

USF | Morsani College of Medicine | Medicine-General

BMS 6020 Credit Hours: var.

Medical Neuroscience

Neuroscience is an interdisciplinary study of structure and function in the human nervous system. It is designed to enable students to learn basic neuroanatomy, neurophysiology and neurochemistry of the nervous system in an integrated manner. Organization of the course illustrates the clinical importance of basic science knowledge with selected case studies, clinical correlations and an introduction to the neurological



examination. Students will be engaged in problem solving situations that draw upon recently acquired knowledge of the nervous system. The overall objectives are to 1) prepare students to progress to more advanced clinical studies of the nervous system, 2) to lay the foundation for lifelong learning in the neurosciences by beginning to develop the necessary background, ability and confidence for students to independently and critically add new basic and clinical information to their knowledge base.

USF | Morsani College of Medicine | Medicine-General

BMS 6042 Credit Hours: var.

Medical Sciences 6: Nephrology, Pulmonary Disease, Cardiology, Gastroenterology

A comprehensive and integrated discussion of the aspects of pharmacology, immunology, pathology infectious disease and clinical medicine that apply to the cardiovascular, pulmonary, renal and gastrointestinal systems, including concepts in neoplasia, hematology and infectious disease.

USF | Morsani College of Medicine | Medicine-General

BMS 6051 Credit Hours: var.

Select Prologue

The prologue is a five-day introduction to the core focuses of the select program. Students will participate in learning activities designed to increase their understanding of health disparities, cultural biases, patient care, & the US healthcare system.

USF | Morsani College of Medicine | Medicine-General

BMS 6206 Credit Hours: var.

Medical Biochemistry

This course covers medical biochemistry and molecular cell biology as core principles of medical sciences at the beginning of the first-year medical school curriculum.

USF | Morsani College of Medicine | Medicine-General

BMS 6500 Credit Hours: var.

Medical Physiology

This course is designed to accomplish three primary objectives: (1) to provide instruction in physiology at the cellular, organ and systemic levels; (2) to illustrate and emphasize the existing interrelated functional aspects of human physiology at the level of general systems, e.g., cardiovascular and endocrine systems; (3) to compare the relationships of normal physiological function to those deranged by disease (pathophysiology) in conceptual terms.

USF | Morsani College of Medicine | Medicine-General

BMS 6639 Credit Hours: var.

Medical Sciences 4: Renal, Endocrine, Gastrointestinal, and Reproductive Systems

A comprehensive description of the gastrointestinal, reproductive and renal systems and some of the disorders of behavior that affect human homeostasis.

USF | Morsani College of Medicine | Medicine-General

BMS 6641 Credit Hours: var.

Medical Sciences 2: Neurologic System

A comprehensive description of the major communication systems found in the human body.

USF | Morsani College of Medicine | Medicine-General

BMS 6821 Credit Hours: var.

Medical Ethics and Humanities

This course will introduce the students to basic ethical principles and clinically relevant topics in medical ethics. Students will also participate in cases studies that require students to apply their knowledge to moral and ethical problems faced by physicians. The exposure to the medical humanities (through literature, art, music, etc.) will be used to illustrate and define moral and ethical problems, the physician-patient relationship, and the relationship of the physician to society. The course is intended to show how medical ethics and medical humanities are integral to the successful practice of the art of medicine and to the development of the complete physician.

USF | Morsani College of Medicine | Medicine-General

BMS 6826 Credit Hours: var.

Doctoring II

This course will expand upon the knowledge and skills gained in doctoring 1: effective history taking, communication, professionalism, ethics, cultural competence, advanced phys diagnosis, healthcare economics, & humanities related to medical practice.

USF | Morsani College of Medicine | Medicine-General

BMS 6832 Credit Hours: var.

Clinical Problem Solving

This multidisciplinary course is offered during the organ system blocks. Students learn clinical reasoning through tutorial sessions and student case conferences.

USF | Morsani College of Medicine | Medicine-General

BMS 6836 Credit Hours: var.

Evidence-Based Clinical Reasoning

This course will instruct students in informatics, acquisition of data from the medical literature, and application of research by application to selected clinical cases using problem-based learning.

USF | Morsani College of Medicine | Medicine-General

BMS 6840 Credit Hours: var.



Introduction to Behavioral Health

This course focuses on introducing the students to behavioral science and how it can be applied in medical practice. The course also provides an orientation to the major emotional disorders and how they affect patients and their health care. The course also discusses human development and how patients respond to medical interventions at different stages of their life cycle. Issues regarding personality structure and family dynamics are reviewed, with emphasis placed on how they affect the patient's clinical presentation and the doctor/patient relationship. Emphasis is placed on areas of psychiatry and behavioral medicine relevant to the general practice of medicine and the integration between psychiatry and the other medical disciplines.

USF | Morsani College of Medicine | Medicine-General

BMS 6920 Credit Hours: var.

Colloquium--Years 1 & 2

USF | Morsani College of Medicine | Medicine-General

BMS 6922 Credit Hours: var.

Colloquium--Year 4

USF | Morsani College of Medicine | Medicine-General

BMS 6941 Credit Hours: var.

Longitudinal Clinical Experience

USF | Morsani College of Medicine | Medicine-General

BMS 6960 Credit Hours: var.

USMLE Step I Review Course

The course will review content areas covered in the year 1 and 2 curricula of the MD program, highlighting the content and context covered on the USMLE Step 1 exam. All presentations will be pre-recorded and presented to students online. Students will be able to contact the course director through the course site on canvas for questions, comments, etc.

USF | Morsani College of Medicine | Medicine-General

BMS 6992 Credit Hours: var.

Scholarly Concentration II

Each topic includes elements of course work, practical application, and scholarly presentation. Year 2 students will take a leadership role in journal clubs, continue working on their scholarly legacy projects, and make use of on-line portfolios.

USF | Morsani College of Medicine | Medicine-General

BMS 6994 Credit Hours: var.

Scholarly Concentration IV

This year 4 elective provides opportunities for scholarly endeavors in areas of special interest. Includes active participation in journal clubs, use of on-line portfolios including

opportunities for reflection, & generation of a scholarly legacy project.

USF | Morsani College of Medicine | Medicine-General

BMS 7303 Credit Hours: var.

Clinical Microbiology and Immunology

This course will focus on an experiential approach to issues in clinical microbiology and immunology of relevance to the practicing physician.

USF | Morsani College of Medicine | Medicine-General

BMS 7460 Credit Hours: var.

Clinical Pharmacology

The primary objective of this elective is to provide an experience in the application of general pharmacological principles and the general principles of drug therapy for the rational rather than empirical use of pharmacologic agents.

USF | Morsani College of Medicine | Medicine-General

BMS 7560C Credit Hours: var.

Research in Physiology

The primary objective of this course is to introduce the student to the research environment. The student will learn current research techniques and the methods of data collection and reduction.

USF | Morsani College of Medicine | Medicine-General

BMS 7664 Credit Hours: var.

Flexible Elective in Pathology

The objective of this elective is to gain experience regarding the practice of pathology for those students considering a career in pathology. Partial credit for certain specialty boards may be obtained for this elective. This program is flexibly designed to accommodate students wishing to have an elective in a subspecialty of either anatomical or clinical pathology. Students will be expected to attend all pathology conferences. Particular attention will be given to clinico-pathological correlation relating to the desired subspecialty. The student will be expected to become familiar with laboratory testing techniques, but clinico-pathological correlation with current case material will be stressed.

USF | Morsani College of Medicine | Medicine-General

BMS 7666 Credit Hours: var.

Clinical Cytopathology

This course introduces the students to the principles used by the cytopathologist to recognize normal and abnormal biologic processes (hormonal states, infectious diseases, neoplasia) through the examination of cellular specimens obtained from a variety of body sites.

USF | Morsani College of Medicine | Medicine-General

BMS 7668 Credit Hours: var.



Forensic Pathology

Objectives: learn to correlate autopsy findings with clinical information and information derived from scene investigations learn to complete death certificates in a manner acceptable to the office of vital statistics and the world health organization learn anatomy pertinent to the future clinical practice specialty of the student gain an understanding of the working relationships between forensic pathologists and other professionals, including those in law enforcement, the office of the state attorney, the defense bar, the funeral industry, the press, and other medical specialties.

USF | Morsani College of Medicine | Medicine-General

BMS 8187C Credit Hours: var.

Advanced Human Anatomy

This course entails supervised regional dissection, discussion of the clinical relevance of the identified structures, participation in gross anatomy laboratory sessions and independent case-based study.

USF | Morsani College of Medicine | Medicine-General

BSC 5425 Credit Hours: 3

Genetic Engineering and Recombinant DNA Technology

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.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

BSC 6381C Credit Hours: 3

Biodiversity

A study of the principles and practice of conservation biology. Emphasis on the primary threats to biodiversity and the application of contemporary tools to solve conservation problems.

USF | College of Arts and Sciences | Integrative Biology

BSC 6428 Credit Hours: 2

Immunological Techniques for Cancer Research

This course will provide foundational knowledge of modern techniques utilized in cancer immunology research. In-class discussion will be supplemented with tours, interactive assignments, and papers from the recent literature.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

BSC 6437 Credit Hours: 3

Biotechnology and Bioethics

Provides students a basic understanding of what biotechnology is and how it is employed throughout the world. Students are to

learn the ethical and legal issues facing this technology, and how biotechnology is regulated. Course is not repeatable.

USF | Morsani College of Medicine | Medical Sciences

BSC 6849 Credit Hours: 3

Graduate Skills in Biology

Graduate Skills in Biology introduces incoming graduate students to crucial practices and skills such as data management and exploration, statistical analysis, scientific writing, presentations, networking, and career options.

USF | College of Arts and Sciences | Integrative Biology

BSC 6875 Credit Hours: 3

Cancer Drug Discovery

This core course will offer cutting-edge knowledge in cancer drug discovery and chemical biology and reveal the development and use of chemical probes to unravel the mechanisms underlying oncogenesis and innovative anticancer drug design.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

BSC 6883 Credit Hours: 4

Integrated Mathematical Oncology II

This is a deep focus course on data-driven development of mathematical models of tissue homeostasis, cancer development, and treatment response to answer specific open questions in cancer biological and clinical oncology.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

BSC 6910 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | Integrative Biology

BSC 6932 Credit Hours: 1-4

Selected Topics in Biology

USF | College of Arts and Sciences | Integrative Biology

BSC 6935 Credit Hours: 1

Graduate Seminar in Biology

USF | College of Arts and Sciences | Integrative Biology

BSC 6939 Credit Hours: 1-4

Selected Topics in Cancer Biology

Provides in-depth study of a single aspect of cancer biology. Topics offered vary by semester.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology



BSC 6945 Credit Hours: 1-3

Graduate Instruction Methods

Special course to be used primarily for the training of teaching assistants.

USF | College of Arts and Sciences | Integrative Biology

BSC 7910 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | Integrative Biology

BSC 7936 Credit Hours: 1

Doctoral Seminar

Graduating Ph.D. students will present a formal seminar based upon their dissertation to the Department of Biology and the public. Restricted to majors.

USF | College of Arts and Sciences | Integrative Biology

BUL 5332 Credit Hours: 3

Law and the Accountant

A comprehensive study of commercial law as it affects the practice of accounting.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

BUL 6652 Credit Hours: 3

Regulatory & Reporting Environments

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.

USF | Muma College of Business |

CAP 5610 Credit Hours: 3

Machine Learning

This course introduces students to Machine Learning and includes supervised machine learning methods and their application, how to assess machine learning algorithm performance, the time/accuracy trade-offs between algorithms, and unsupervised learning.

USF | College of Engineering | Computer Science and Engineering

CAP 5627 Credit Hours: 3

Affective Computing

The study of systems that can express, recognize and respond to human affects by analyzing faces, gestures, body pose, and biological data that includes brain, heart, and respiration signals.

USF | College of Engineering | Computer Science and Engineering

CAP 5771 Credit Hours: 3

Data Mining

An introductory course to mining information from data. Scalable supervised and unsupervised machine learning methods are discussed. Methods to visualize and extract heuristic rules from large databases with minimal supervision is discussed.

USF | College of Engineering | Computer Science and Engineering

CAP 6100 Credit Hours: 3

Human Computer Interface

Introduction to the design and evaluation of the interface between a computer based application and a human user.

USF | College of Engineering | Computer Science and Engineering

CAP 6317 Credit Hours: 3

Social Media Mining

This course introduces useful techniques to model, analyze, and understand large-scale social media, with focus on social network analysis, user modeling, bot detection, and dynamical processes over social and information networks.

USF | College of Engineering | Computer Science and Engineering

CAP 6455 Credit Hours: 3

Advanced Robotic Systems

Unmanned ground, aerial and underwater robots. Modeling, kinematics dynamics and control; navigation and collision avoidance; sensor fusion; vision-based navigation; sensor fault detection and isolation; system architectures and robot swarms.

USF | College of Engineering | Computer Science and Engineering

CAP 6632 Credit Hours: 3

Automated Reasoning and Theorem Proving

This course covers the principles of automated reasoning/mechanical theorem proving. Topics to be covered include propositional logic, predicate logic, skolem standard forms, various resolution principles and methods, and non-classical logics.



USF | College of Engineering | Computer Science and Engineering

CAP 6640 Credit Hours: 3

Natural Language Processing

The concepts and principles of computer processing of natural language, including linguistic phenomena, formal methods, and applications.

USF | College of Engineering | Computer Science and Engineering

CAP 6671 Credit Hours: 3

IT Intelligent Agents

Introduction to Intelligent Agents and its different applications. Intelligent agent technology relates to important areas that include artificial intelligence, neural networks, and expert systems. These areas will be discussed during the class.

USF | College of Engineering | Computer Science and Engineering

CAP 6736 Credit Hours: 3

Geometric Modeling

The course deals with the representation, design, analysis, processing and visualization of shape information used in a variety of fields of science and engineering.

USF | College of Engineering | Computer Science and Engineering

CCE 5035 Credit Hours: 3

Construction Management & Planning

Fundamentals of construction management. Topics include: general definitions, organizational roles, types of contracts, analysis of labor and equipment, cost estimating, contractor cash flow analysis, planning and scheduling, project control, construction administration, quality and safety management, and use of computer software in construction management.

USF | College of Engineering | Civil and Environmental Engineering

CCJ 6118 Credit Hours: 4

Introduction to Criminology Theory

An introduction to, and comparison of, major historical and contemporary theories that seek to explain criminal behavior or the existence of crime in society.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 6485 Credit Hours: 3

Criminal Justice and Public Policy

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.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 6624 Credit Hours: 3

Seminar in Violence

This course utilizes psychological, sociological, and biological perspectives to help students to understand different types of violent offenders and various intervention strategies.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 6638 Credit Hours: 3

Seminar in Nature and Causes of Crime

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.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 6669 Credit Hours: 3

Seminar in Social Inequality and Crime

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).

USF | College of Behavioral and Community Sciences | Criminology

CCJ 6706 Credit Hours: 4

Quantitative Analysis in Criminology I

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.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 6708 Credit Hours: 3

Quantitative Analysis in Criminology III

This course familiarizes students with advanced multivariate linear and nonlinear statistical procedures appropriate for analyzing criminological data.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 6910 Credit Hours: 1-19

Directed Research

USF | College of Behavioral and Community Sciences | Criminology



CCJ 6931 Credit Hours: 3

Seminar in Criminological Theory

This course is designed to provide an in-depth analysis of specific theoretical issues in criminology.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 6935 Credit Hours: 3

Topics in Criminology and Criminal Justice

Analysis and discussion of topics of major concern in criminology and criminal justice that are not covered in regular courses.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 6937 Credit Hours: 1

Pro Seminar in Criminology

Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 7065 Credit Hours: 2

Professional Development in Criminology

Engage in a range of professional activities that form the core of a successful career in the field of criminology. Topics will include: writing a dissertation, teaching, presenting at professional conferences.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 7606 Credit Hours: 3

Theories of Criminal Behavior II

An advanced course that builds upon the knowledge base of criminological theory attained in prior coursework.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 7910 Credit Hours: 1-12

Advanced Research

Course is designed to give students an opportunity to conduct independent research under the supervision of a faculty member. May be repeated.

USF | College of Behavioral and Community Sciences | Criminology

CCJ 7980 Credit Hours: 2-12

Doctoral Dissertation

USF | College of Behavioral and Community Sciences | Criminology

CDA 6328 Credit Hours: 3

Cryptographic Hardware and Embedded Systems

Efficient hardware implementation of cryptographic algorithms is presented to meet the performance and cost requirements of computing platforms from handheld to server-level computers. Cryptographic implementation attacks and countermeasures are covered.

USF | College of Engineering | Computer Science and Engineering

CEG 5115 Credit Hours: 3

Foundation Engineering

Design of shallow foundations, cantilevered and anchored retaining walls, piling, drilled piers and special foundations. Computer applications to geotechnical engineering are covered.

USF | College of Engineering | Civil and Environmental Engineering

CEG 6015 Credit Hours: 3

Advanced Geotechnical Topics

Advanced concepts of shear strength and consolidation of soils; slope stability, nonlinear and secondary consolidation, numerical methods.

USF | College of Engineering | Civil and Environmental Engineering

CEG 6415 Credit Hours: 3

Seepage and Subsurface Drainage

Design of underdrains, wells, soil filters, fabric filters, and dewatering systems with special emphasis on case studies.

USF | College of Engineering | Civil and Environmental Engineering

CES 5105C Credit Hours: 3

Advanced Mechanics of Materials I

Analytical study of the mechanical behavior of deformable solids. Basic concepts, stress and strain transformations, special topics in beams, theory of elasticity, criteria of failure, beams on elastic foundation.

USF | College of Engineering | Civil and Environmental Engineering

CES 5715C Credit Hours: 3

Prestressed Concrete

Fundamental principles of prestressing; calculation of losses; stress analysis and design of simple beams for flexure and shear. Examples of pressures applications.



USF | College of Engineering | Civil and Environmental Engineering

CES 6103 Credit Hours: 3
Experimental Stress Analysis

This course will provide the tools of research necessary to design experiments and/or instrumentation schemes for directed studies. It is intended for structural and geotechnical engineering graduates conducting master's or doctoral research.

USF | College of Engineering | Civil and Environmental Engineering

CES 6118 Credit Hours: 3
Applied Finite Elements

The course focuses on applying the finite element method to types of problems encountered in various fields of engineering. In the course, underlying theories are presented, enough hand calculations are done to ensure an understanding of the methods, and then students solve problems using the ANSYS finite element program. The course is ideally suited for engineers wanting an understanding of the finite element method as applied to their jobs, graduate students wishing to apply the finite element method to their research problems, and students wanting a preparation for the Department's computational mechanics course sequence.

USF | College of Engineering | Civil and Environmental Engineering

CES 6230 Credit Hours: 3
Advanced Structural Mechanics

This course develops linear elasticity from kinematics, equilibrium through linear constitutive theory.

USF | College of Engineering | Civil and Environmental Engineering

CES 6586 Credit Hours: 3
Design of Structures to Resist Natural Hazards

Study of natural hazards (wind, earthquakes & ocean waves) and their interaction with structures. Use of exact and approximate methods of analysis, computer modeling, and design provisions for structures to resist the aforementioned loads.

USF | College of Engineering | Civil and Environmental Engineering

CES 6706 Credit Hours: 3
Advanced Concrete Design

Advanced topics in concrete designs. Topics include torsion two way floor systems, composite construction, slabs on grade, and deep beams.

USF | College of Engineering | Civil and Environmental Engineering

CES 6835 Credit Hours: 3

Design of Masonry Structures

This course provides an overview of the design of masonry structures using concrete masonry units. It covers both working stress and strength design of typical elements such as walls and lintels and simple structures.

USF | College of Engineering | Civil and Environmental Engineering

CES 6935 Credit Hours: 1

Graduate Structures/Materials Seminar

This course consists of oral presentations made by graduate structures/materials seminar students, faculty members, and outside speakers including practitioners on their current topics of structures and materials engineering.

USF | College of Engineering | Civil and Environmental Engineering

CGN 6162 Credit Hours: 2

Professional Practice of Civil Engineering

An introduction to the profession of Civil and Env Eng. The course gives students the opportunity to discuss topics of importance to professional practice and evaluation of Civil Eng infrastructure projects among their diverse peers and guest speakers.

USF | College of Engineering | Civil and Environmental Engineering

CGN 6720 Credit Hours: 3

Electrochemical Diagnostic Techniques

Fundamentals and applications of electrochemical diagnostic techniques. Focus on electrochemical impedance spectroscopy to evaluate reaction rates in corrosion and interfacial phenomena of materials. Includes research project.

USF | College of Engineering | Civil and Environmental Engineering

CGN 6915 Credit Hours: 1-19

Directed Research

Course consists of directed research on topics selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.

USF | College of Engineering | Civil and Environmental Engineering

CGN 6941 Credit Hours: 1

Graduate Instruction Methods

This course provides the opportunity for students to learn the principles and effective teaching methods used by engineering educators. This course follows the ASCE Excellence in Civil Engineering Education model of engineering education.



USF | College of Engineering | Civil and Environmental Engineering

CGN 6950 Credit Hours: 1

Mentoring Novice Researchers

This course is designed for graduate students who are mentoring undergraduate researchers through the NSF Research Experience for Undergraduates (REU), Research Experience for Teachers (RET) and similar programs.

USF | College of Engineering | Civil and Environmental Engineering

CGN 7915 Credit Hours: 1-19

Directed Research

Course consists of directed research on topics selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.

USF | College of Engineering | Civil and Environmental Engineering

CGS 6210 Credit Hours: 3

Computer Hardware Systems for Education

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.

USF | College of Education |

CHM 5225 Credit Hours: 3

Intermediate Organic Chemistry I

This course will extend organic chemistry beyond the undergraduate level and will emphasize concepts of stereochemistry and reaction mechanisms.

USF | College of Arts and Sciences | Chemistry

CHM 5452 Credit Hours: 3

Polymer Chemistry

Fundamentals of polymer synthesis, structure, properties, and characterization.

USF | College of Arts and Sciences | Chemistry

CHM 5931 Credit Hours: 1-3

Selected Topics in Chemistry

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.

USF | College of Arts and Sciences | Chemistry

CHM 6138 Credit Hours: 3

Mass Spectrometry

This course covers the topic of mass spectrometry from physical principles and theory to implementation and method development.

USF | College of Arts and Sciences | Chemistry

CHM 6235 Credit Hours: 3

Spectroscopic Analysis of Organic Compounds

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.

USF | College of Arts and Sciences | Chemistry

CHM 6263 Credit Hours: 3

Advanced Organic Chemistry II: Physical-Organic

Organic reaction mechanisms emphasizing the interpretation of experimental data. Lec.

USF | College of Arts and Sciences | Chemistry

CHM 6440 Credit Hours: 3

Reaction Kinetics

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.

USF | College of Arts and Sciences | Chemistry

CHM 6804 Credit Hours: 1

Advanced Safety in the Chemistry Laboratory

This is a course designed to develop a solid foundation in the fundamentals of safety in the chemistry laboratory and a strong safety ethic that can support good lab practices in academia, industry, or any other lab setting.

USF | College of Arts and Sciences | Chemistry

CHM 6811 Credit Hours: 3

Classroom Assessment Practices in Chemistry

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.

USF | College of Arts and Sciences | Chemistry

CHM 6935 Credit Hours: 1



Graduate Seminars in Chemistry

Required every semester (when offered) for all students enrolled in Chemistry graduate program. Requires participation in and attendance at the weekly departmental seminar.

USF | College of Arts and Sciences | Chemistry

CHM 6937 Credit Hours: 3

Discipline-Based Education Research Colloquium

The course involves two types of presentations that are typically expected of graduate students: a research talk and a literature review.

USF | College of Arts and Sciences | Chemistry

CHM 6945 Credit Hours: 3

Investigating Chemical Education Research in the United States

Introduction to the field of Chemical Education Research including the types and kinds of research conducted, primary publication venues, seminal and recent research contributions.

USF | College of Arts and Sciences | Chemistry

CHM 6971 Credit Hours: 2-19

Thesis: Master's

USF | College of Arts and Sciences | Chemistry

CHM 6978 Credit Hours: 3

Advanced Research in Chemistry

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.

USF | College of Arts and Sciences | Chemistry

CHM 7980 Credit Hours: 2-19

Dissertation: Doctoral

USF | College of Arts and Sciences | Chemistry

CIS 6214 Credit Hours: 3

Privacy-Preserving and Trustworthy Cyber-Infrastructures

This course will explore emerging cyber-security technologies addressing security issues of cyber-infrastructures. It will cover privacy-enhancing and trustworthy techniques for cloud computing and internet of thing systems.

USF | College of Engineering | Computer Science and Engineering

CIS 6220 Credit Hours: 3

Penetration Testing for IT

Penetration testing and related software tools are presented. Legalities and various cyber-attacks such as distributed denial of service, man-in-the-middle, and password attacks are covered. Methods to correct security flaws are given.

USF | College of Engineering | Computer Science and Engineering

CIS 6375 Credit Hours: 3

Information Security and Privacy in Distributed Systems

This course covers topics in information security and privacy in distributed computing systems like encryption, authentication, anonymity, traceback, denial of service, forensics etc. in wired and wireless systems and networks.

USF | College of Engineering | Computer Science and Engineering

CIS 6511 Credit Hours: 3

IT Risk Management

Various aspects of Risk Managements throughout the life of a project. The course will also present various quantitative/qualitative risk assessment models.

USF | College of Engineering | Computer Science and Engineering

CIS 6900 Credit Hours: 1-19

Independent Study

Independent study in which students must have a contract with an instructor. Requires completed contract prior to enrollment.

USF | College of Engineering | Computer Science and Engineering

CIS 6940 Credit Hours: 1-4

Graduate Instruction Methods

Special course to train graduate teaching assistants.

USF | College of Engineering | Computer Science and Engineering

CIS 6971 Credit Hours: 2-19

Thesis: Master's

USF | College of Engineering | Computer Science and Engineering

CIS 7980 Credit Hours: 2-19

Dissertation: Doctoral

USF | College of Engineering | Computer Science and Engineering

CJE 6025 Credit Hours: 3



Policy Organization, Behavior, and Administration

Graduate seminar focusing on the topics of police behavior, organization, and administration.

USF | College of Behavioral and Community Sciences | Criminology

CJE 6268 Credit Hours: 3
Minorities and Crime

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.

USF | College of Behavioral and Community Sciences | Criminology

CJE 6625 Credit Hours: 3
Network Forensic Criminal Investigations

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.

USF | College of Behavioral and Community Sciences | Criminology

CJE 6627 Credit Hours: 3
Digital Evidence Recognition and Collection

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.

USF | College of Behavioral and Community Sciences | Criminology

CJE 6690 Credit Hours: 3
Cybercrime Law and Social Policy

This course will introduce the student to the basic legal foundations related to the enforcement of criminal statutes and investigations of violations of law in the realm of illicit activities generally known as cybercrime.

USF | College of Behavioral and Community Sciences | Criminology

CJE 6945 Credit Hours: 3
Practicum for Digital Forensics

This "experiential learning" or practicum course allows students to apply knowledge from their program and to critically consider and address issues relevant to the cybersecurity field.

USF | College of Behavioral and Community Sciences | Criminology

CJL 6421 Credit Hours: 4
Law, Crime and Justice

An exposition of historical and contemporary legal principles, procedures, and issues as reflected in Constitutional provision, statutes, and case law.

USF | College of Behavioral and Community Sciences | Criminology

CLP 6318 Credit Hours: 3
Prevention Science & Health Psychology

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.

USF | College of Arts and Sciences | Psychology

CLP 6443 Credit Hours: 3
Assessment of Infant-Family Mental Health

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.

USF | College of Arts and Sciences | Psychology

CLP 6477 Credit Hours: 3
Infant Family Mental Health

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.

USF | College of Arts and Sciences | Psychology

CLP 6623 Credit Hours: 3
Professional and Ethical Issues in Psychology

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.

USF | College of Arts and Sciences | Psychology

CLP 7188 Credit Hours: 1-4
Clinical Psychology Interventions

Study of the theoretical, empirical, and applied foundations of the major systems of therapeutic intervention.

USF | College of Arts and Sciences | Psychology

CNT 6215 Credit Hours: 3
Computer Networks



Design and analysis of data communication networks with an emphasis on the Internet and its protocols. Key topics include protocol models, HTTP, TCP, IP, local area networks, routing, flow control, multimedia networking, and performance evaluation.

USF | College of Engineering | Computer Science and Engineering

CNT 6806 Credit Hours: 3
Network Science

This course introduces the science of networks via elements of graph theory and practical analysis of real datasets.

USF | College of Engineering | Computer Science and Engineering

COM 6001 Credit Hours: 3
Theories and Histories of Communication

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.

USF | College of Arts and Sciences | Communication

COM 6025 Credit Hours: 3
Health Communication

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.

USF | College of Arts and Sciences | Communication

COM 6121 Credit Hours: 3
Organizational Communication

A study of communication theory and behavior within organizational settings: role of communication, communication climates, communication networks, leadership.

USF | College of Arts and Sciences | Communication

COM 6306 Credit Hours: 3
Action Research

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.

USF | College of Arts and Sciences | Communication

COM 6345 Credit Hours: 3
Contemporary Cultural Studies

Examines theoretical issues and interpretive approaches for exploring questions of knowledge, identity, experience, meaning

and value in modern culture through the study of communication.

USF | College of Arts and Sciences | Communication

COM 6418 Credit Hours: 3
Communication and Systems Practice

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.

USF | College of Arts and Sciences | Communication

COM 6724 Credit Hours: 3
Communication Training in Organizations

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.

USF | College of Arts and Sciences | Communication

COM 7933 Credit Hours: 3
Seminar in Communication Studies

Variable topics course.

USF | College of Arts and Sciences | Communication

COP 6021 Credit Hours: 3
Programming Languages: Design and Analysis

In-depth, graduate-level study of the design and analysis of programming languages. Functional programming, deductive systems, operational semantics, type systems, and proofs of type safety.

USF | College of Engineering | Computer Science and Engineering

COP 6611 Credit Hours: 3
Operating Systems

Operating systems functions and design, resource management, protection systems, process communication, and deadlocks.

USF | College of Engineering | Computer Science and Engineering

COP 6625 Credit Hours: 3
Compilers

In-depth, graduate-level study of compiler design and implementation. Lexical, syntactic, and semantic analysis. Type safety. Code generation. Run-time support. Garbage collection. Code optimizations.

USF | College of Engineering | Computer Science and Engineering



COT 6405 Credit Hours: 3

Introduction to the Theory of Algorithms

Analysis techniques for algorithms. Characterizing algorithms in terms of recurrence relations, solutions of recurrence relations, upper and lower bounds. Graph problems, parallel, algorithms, NP completeness and approximation algorithms, with relationship to practical problems.

USF | College of Engineering | Computer Science and Engineering

CPO 6077 Credit Hours: 3

Social Movements

Introduces students to the main theoretical perspectives of social movement scholarship and investigates core social movements in the US and beyond.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

CRW 6025 Credit Hours: 3

Special Topics in Creative Writing

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.

USF | College of Arts and Sciences | English

CRW 6164 Credit Hours: 3

The Craft of Fiction

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).

USF | College of Arts and Sciences | English

CRW 6331 Credit Hours: 3

Poetry Writing

A study of the process of poetry writing and the demands associated with its form, both free verse and metrical.

USF | College of Arts and Sciences | English

CRW 6726 Credit Hours: 3

Practicum in Literary Editing and Publishing

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.

USF | College of Arts and Sciences | English

CST 6934 Credit Hours: 3

Special Topics in Graduate School: Research Practicum

Variable titles offered on topics of special interest pertaining to research practices.

USF | College of Arts and Sciences |

CTS 6716 Credit Hours: 3

Network Programming for IT

Network programming using high level languages. Topics covered will include distributed computing using remote method invocation technologies, peer-to-peer protocols, w-level socket-based programming and mobile code.

USF | College of Engineering | Computer Science and Engineering

CWR 6122 Credit Hours: 3

Groundwater Engineering

Use of groundwater as a resource; factors governing groundwater flow; equations describing groundwater flow in aquifers; techniques for solving relevant equations; applications of models to solve problems of environmental and/or engineering significance.

USF | College of Engineering | Civil and Environmental Engineering

CWR 6239 Credit Hours: 3

Waves and Beach Protection

A study of the fundamentals of shoreline dynamics including distribution of wave energy, motion of beach sand, stable configurations and protective measures.

USF | College of Engineering | Civil and Environmental Engineering

CWR 6533 Credit Hours: 3

Water Quality Modeling

This course will develop the fundamental principals and concepts of water quality modeling and apply water quality models in a variety of contexts. The mathematical representations of environmental transport and transformation processes will be elucidated. Models of different complexity will be applied to a variety of environmental contexts.

USF | College of Engineering | Civil and Environmental Engineering

CWR 6535 Credit Hours: 3

Hydrologic Models

A study of the theoretical principles of hydrologic modeling and an examination of various numerical hydrologic models available. Students will be required to develop and apply computer models.

USF | College of Engineering | Civil and Environmental Engineering



CWR 6820 Credit Hours: 3

Coastal Waves and Structures

Fundamentals of wave motion and the mutual interaction of waves and structures. A design project is included.

USF | College of Engineering | Civil and Environmental Engineering

DEP 6058 Credit Hours: 3

Developmental Psychology

Basic survey of research and theory in human developmental processes.

USF | College of Arts and Sciences | Psychology

DIE 6127 Credit Hours: 2

Principles of Leadership and Management of Food and Nutrition

Course equips students with leadership and management skills needed to establish and maintain effective food and nutrition programs. Food service and clinical nutrition management is addressed so students can adapt to a changing healthcare environment.

USF | College of Public Health | Dean's Office

DIG 6007 Credit Hours: 3

Trends in Digital Humanities

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.

USF | College of Arts and Sciences | Humanities and Cultural Studies

DIG 6585 Credit Hours: 3

Digital Humanities Capstone Project

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.

USF | College of Arts and Sciences | Humanities and Cultural Studies

DIG 6818 Credit Hours: 3

Feminist Digital Humanities

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.

USF | College of Arts and Sciences | English

DIG 6886 Credit Hours: 3

Digital Pedagogy

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.

USF | College of Arts and Sciences | English

EBD 6215 Credit Hours: 3

Advanced Theories and Practices in Emotional Handicaps

In-depth study of specific behavioral disorders of children and youth, with an emphasis on educational implications and interventions.

USF | College of Education |

EBD 6246 Credit Hours: 3

Educating Students with Autism

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.

USF | College of Education |

ECH 5320 Credit Hours: 4

Chemical Process Engineering I

The course presents the principles of mass balances, classical thermodynamics, phase equilibria, energy balances, and psychrometrics. The student will learn by doing many case studies. Computer software will be used to obtain solutions to many problems.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 5322 Credit Hours: 4

Chemical Process Engineering III

Basic concepts of fluid phase equilibrium, chemical equilibrium, separation processes, and chemical reactors. Not available for chemical engineering students.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 5327 Credit Hours: 4

Chemical Process Control

Basic concepts of feedback control, process dynamics, process controllers (PID) including tuning, control loop stability, cascade, ratio, selective, override, feedforward, and multivariable control. Not available for chemical engineering students.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 5747C Credit Hours: 1-3



Selected Topics in Chemical Engineering Biotechnology

Selected topics in engineering in biotechnology, including cell separation technology, immobilized enzymes and cells, food engineering, biohazardous waste, and bioseparations.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 5785 Credit Hours: 3 Sustaining the Earth: An Engineering Approach

An approach of global perspective on ecological principles revealing how all the world's life is connected and sustained within the biosphere and how engineering provides the tools to design solutions engaging materials science & environmental ethics.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 5930 Credit Hours: 1-4 Special Topics III

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 5945 Credit Hours: 1-6 Chemical Engineering Industrial Internship

Individual study as practical engineering work at an industrial facility or laboratory under the supervision of a faculty member interacting with the sponsoring industrial facility or laboratory.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 6107 Credit Hours: 3 Molecular Thermodynamics

Introduction of thermodynamics from a molecular perspective. The focus will be on applications to chemical engineering systems and processes.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 6412 Credit Hours: 3 Processes Analysis and Modeling

Computer-controlled data acquisition and analysis aimed at development and evaluation of empirical and physical models of chemical and mechanical engineering processes.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 6506 Credit Hours: 3 Chemical Engineering Kinetics

Fundamental aspects of chemical reactions, including collision theory, transition rate theory, unimolecular rate theory,

homogeneous gas and liquid phase kinetics, heterogeneous kinetics, and mass-transfer limited kinetics.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 6536 Credit Hours: 3 Catalysis: Concepts and Applications

Descriptions of thermodynamic, dynamic, and structural features of surfaces, analysis of the chemical bonds at surfaces, and assessment of unique properties of surfaces and exploitation in applications including heterogeneous catalysis.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 6840 Credit Hours: 3 Mathematical Methods for Chemical Engineering

Mathematical modeling of chemical engineering systems. Numerical and analytical solution methods for algebraic equations, ordinary differential equations, coupled differential and algebraic equations and partial differential equations.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 6907 Credit Hours: 1-19 Independent Study - Variable Title

Independent study in which students must have a contract with an instructor.

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 6931 Credit Hours: 1-3 Special Problems II

USF | College of Engineering | Chemical and Biomedical Engineering

ECH 7915 Credit Hours: 1-19 Directed Research

USF | College of Engineering | Chemical and Biomedical Engineering

ECO 5060 Credit Hours: 0 MBA Essentials: Economics

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.

USF | Muma College of Business |

ECO 6115 Credit Hours: 3



Microeconomics I

Microeconomic behavior of consumers, producers, and resource suppliers, price determination in output and factor markets, general market equilibrium.

USF | College of Arts and Sciences | Economics

ECO 6205 Credit Hours: 3

Macroeconomic Theory and Policy

Determination of income, employment, wages, prices, and interest rates, contemporary policy issues, long-run economic growth.

USF | College of Arts and Sciences | Economics

ECO 6305 Credit Hours: 3

History of Economic Thought

Currents of modern economic thought in the last hundred years.

USF | College of Arts and Sciences | Economics

ECO 6419 Credit Hours: 3

Managerial Analysis

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.

USF | Muma College of Business |

ECO 6425 Credit Hours: 3

Econometrics II

Advanced econometric techniques; model building, estimation and forecasting; design and execution of research projects.

USF | College of Arts and Sciences | Economics

ECO 6525 Credit Hours: 3

Public Sector Economics

The economic role of government in the allocation of resources in the presence of market failure.

USF | College of Arts and Sciences | Economics

ECO 6706 Credit Hours: 3

International Trade: Theory and Policy

Causes of international trade, international trade policy, economic integration, trade problems of developing countries, role of multinational corporations in world trade.

USF | College of Arts and Sciences | Economics

ECO 6716 Credit Hours: 3

International Monetary Economics

International macroeconomic relationships, foreign exchange market, the international monetary system, balance of

payments adjustments, macroeconomic policy in the open economy.

USF | College of Arts and Sciences | Economics

ECO 6917 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | Economics

ECO 7116 Credit Hours: 3

Microeconomics II

Topics in advanced microeconomic theory, including general equilibrium, welfare economics, intertemporal choice, uncertainty, information, and game theory.

USF | College of Arts and Sciences | Economics

ECO 7406 Credit Hours: 3

Mathematical Economics II

This course provides a continuation of [Mathematical Economics I](#). Students will become familiar with certain additional mathematical tools needed to pursue a graduate degree in economics.

USF | College of Arts and Sciences | Economics

ECO 7427 Credit Hours: 3

Econometrics IV

Advanced econometric techniques with emphasis on applying the proper method to actual data and to situations where various techniques are appropriate.

USF | College of Arts and Sciences | Economics

ECP 6205 Credit Hours: 3

Labor Economics I

Labor demand and supply, unemployment, discrimination in labor markets, labor force statistics.

USF | College of Arts and Sciences | Economics

ECP 6405 Credit Hours: 3

Industrial Organization I

Structure of industry and its effect on economic efficiency.

USF | College of Arts and Sciences | Economics

ECP 6415 Credit Hours: 3

Issues in Regulation and Antitrust

Issues concerning rationale, structure and performance of government regulation and antitrust policy.

USF | College of Arts and Sciences | Economics

ECP 6535 Credit Hours: 3



Analysis of Health Care Issues

Evolution of medical care industries and government healthcare policies. International comparisons. Measures of cost benefit and of cost-effectiveness.

USF | College of Arts and Sciences | Economics

ECP 6614 Credit Hours: 3

Urban Economics

Economics of growth and development of urban areas, interurban location patterns.

USF | College of Arts and Sciences | Economics

ECP 6702 Credit Hours: 2

Managerial Economics

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.

USF | College of Arts and Sciences | Economics

ECP 7406 Credit Hours: 3

Industrial Organization II

This course will introduce students to advanced topics in empirical industrial organization. Particular emphasis will be placed on techniques to estimate the behavior of firms, market equilibrium, and the impact of economic policy on markets.

USF | College of Arts and Sciences | Economics

ECS 6015 Credit Hours: 3

Economic Development

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.

USF | College of Arts and Sciences | Economics

ECT 6197 Credit Hours: 3

Enhancing Career and Technical Education Curriculum

Enhancing career & technical education curriculum including broadening mission, goals & outcomes, integration with academics, work-based learning, contextual learning, appropriate technology & certifying student mastery. Open to majors & non-majors.

USF | College of Education I

ECT 6766 Credit Hours: 3

Emerging Workplace Competencies

An interactive exploration of emerging workplace competencies through research, analysis, and work-based experiences for the purpose of professional development and program improvement.

USF | College of Education I

ECT 6926 Credit Hours: 1-5

Staff Development

Implementation of new procedures addressed to discrete developmental needs of the staff as identified by an educational agency.

USF | College of Education I

ECT 6948 Credit Hours: 3-6

Practicum: Industrial-Technical Education

A problem-centered field study in the local community, school, government, office, social agency, business, or industry.

USF | College of Education I

ECT 7791 Credit Hours: 3

Research Seminar in Vocational, Technical, and Adult Education

Examination and critical evaluation of research in a particular specialization area of Vocational, Technical, or Adult Education. Preparation of an individual research prospectus.

USF | College of Education I

ECT 7980 Credit Hours: 2-30

Dissertation

USF | College of Education I

ECW 5315 Credit Hours: 3

Program Management: Diversified Cooperative Training

Organization, coordination, and budgeting of adult, cooperative, and special programs.

USF | College of Education I

ECW 6206 Credit Hours: 3

Supervision of Local Programs: Vocational Education

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.

USF | College of Education I

ECW 6696 Credit Hours: 3

Equity and Access in the New Economy

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.

USF | College of Education I



USF | College of Education I

ECW 7105 Credit Hours: 3

Vocational and Adult Education Program Planning and Implementation

Knowledge and skills necessary to participate in the initial determination, planning, organization, and implementation of new or expanded adult, vocational and technical education institutions or programs.

USF | College of Education I

ECW 7168 Credit Hours: 3

Instructional Development for Vocational, Technical, and Adult Education

The systematic approach to vocational, technical, and adult education curriculum improvement and instructional development. Students will apply an instructional systems approach to the development of practical solutions to critical teaching and learning problems.

USF | College of Education I

EDA 6061 Credit Hours: 3

Principles of Educational Administration

Educational administration as a profession. Consideration of organization, control, and support of the educational system.

USF | College of Education I

EDA 6192 Credit Hours: 3

Educational Leadership

Administration course that addresses change, influences, and planning systems. Also examines personnel functions for administrators.

USF | College of Education I

EDA 6195 Credit Hours: 3

Policy Development

Contemporary research on diffusion of innovations, political power in policy decision making. Role of establishing educational policies.

USF | College of Education I

EDA 6232 Credit Hours: 3

School Law

Basic essentials of School Law. A review of court decisions affecting American education with emphasis on Florida State statutes.

USF | College of Education I

EDA 6262 Credit Hours: 3

Planning Educational Facilities

Problems in the planning, construction, and use of educational facilities. Visitation and/or evaluation of selected schools.

EDA 6274 Credit Hours: 3

Technology and Data Analysis for School Leaders

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.

USF | College of Education I

EDA 6910 Credit Hours: 1-19

Directed Research

USF | College of Education I

EDA 6945 Credit Hours: 3-8

Administration Practicum

Field experiences in school systems for identifying and analyzing educational problems and their solutions. Application of concepts developed in the student's program.

USF | College of Education I

EDA 7069 Credit Hours: 3

Ethics and Educational Leadership

The purpose of this course is to read about, examine, discuss, and critique competing theories of ethics and educational leadership. Students will construct critical cases & statements of responsibility in terms of ethics applied to leadership.

USF | College of Education I

EDA 7193 Credit Hours: 3

Organizational Leadership and Systems Theory

The course examines K 12 educational systems through the theoretical frameworks of organizational learning and change applying problem-based approaches that emphasize socio-political and local, state, and federal influences.

USF | College of Education I

EDA 7206 Credit Hours: 3

Appreciative Inquiry and Organizing in Public Education

This course introduces Appreciative Inquiry and Appreciative Organizing in Public Education as a strength-based, problem solving and continuous improvement approach to inform and build school and district leadership capacity.

USF | College of Education I

EDA 7222 Credit Hours: 3



Administration of School Personnel Policies and Practices

Administration of school personnel policies and practices relating to professional staff, supporting staff, and students.

USF | College of Education |

EDA 7238 Credit Hours: 3

Special Education Law and Policy Issues

This course is focused on the framework of special education law and its application in school systems.

USF | College of Education |

EDA 7280 Credit Hours: 3

Curriculum Theory

The purpose of this course is to prepare critical and culturally responsive curriculum leaders to engage curriculum theory in the work of curriculum policy, development, and inquiry.

USF | College of Education |

EDA 7287 Credit Hours: 3

Educational Politics and Policy: Theory and Issues

This course seeks to habituate students' conceptualization of schooling as political and to develop students' understanding of how educational politics and policies permeate educational systems.

USF | College of Education |

EDA 7980 Credit Hours: 2-30

Dissertation

USF | College of Education |

EDE 6225 Credit Hours: 1-3

Problems in Curriculum and Instruction: Elementary

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.

USF | College of Education |

EDE 6326 Credit Hours: 3

Instructional Planning for Diverse Learners

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.

USF | College of Education |

EDE 6346 Credit Hours: 3

Teaching and Learning with Technology in Elementary Classrooms

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.

USF | College of Education |

EDE 6366 Credit Hours: 3

Professional Development for Student Learning

This course prepares effective teacher leaders for facilitating job-embedded educator learning with a specific focus on P-6 student learning.

USF | College of Education |

EDE 6486 Credit Hours: 3

Teacher Research for Student Learning

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.

USF | College of Education |

EDE 6556 Credit Hours: 3

Coaching for Student Learning

Prepares coaches for facilitating preservice and in-service educator learning with specific focus on P-6 student learning.

USF | College of Education |

EDE 6946 Credit Hours: 3

Practicum Field Experience

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..

USF | College of Education |

EDE 7206 Credit Hours: 3

Critical Analysis of Curriculum in Elementary Schools

The purpose of this course is to critically analyze curriculum in the elementary schools from its historical foundations through the current educational climate. This will enable educators to make informed decisions on curriculum issues.

USF | College of Education |

EDE 7481 Credit Hours: 3

Teacher Education Seminar



This course prepares doctoral students to integrate, assimilate, and evaluate major research and research issues confronting the field of teacher education.

USF | College of Education I

EDE 7980 Credit Hours: 2-30

Dissertation

USF | College of Education I

EDF 6120 Credit Hours: 3

Child Development

This course provides an overview of educational, emotional, hereditary, intellectual, social, and physical factors influencing child growth and development.

USF | College of Education I

EDF 6165 Credit Hours: 1-3

Group Processes for Educational Personnel

Application of group process research to the needs of professional educators and training officers.

USF | College of Education I

EDF 6211 Credit Hours: 3

Psychological Foundations of Education

Selected topics in psychology of human development and learning, related to schools and educational settings.

USF | College of Education I

EDF 6215 Credit Hours: 3

Learning Principles Applied to Instruction

Learning principles and their application to classroom instruction.

USF | College of Education I

EDF 6281 Credit Hours: 3

Workshop and Conference Design

Knowledge and skills to design, conduct and/or administer, and evaluate both workshops and conferences.

USF | College of Education I

EDF 6288 Credit Hours: 3

Instructional Design I

Instructional design models/theories and their systematic application to instructional goals.

USF | College of Education I

EDF 6407 Credit Hours: 4

Statistical Analysis for Educational Research I

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.

USF | College of Education I

EDF 6446 Credit Hours: 3

Development and Validation of Tests in Education

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.

USF | College of Education I

EDF 6481 Credit Hours: 3

Foundations of Educational Research

Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies.

USF | College of Education I

EDF 6517 Credit Hours: 3

Historical Foundations of American Education

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.

USF | College of Education I

EDF 6552 Credit Hours: 3

The Role of Education in a Democracy

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.

USF | College of Education I

EDF 6697 Credit Hours: 3

Learning and Linguistic Diversity in a Transnational Context

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.

USF | College of Education I

EDF 6736 Credit Hours: 3

Education, Communication, and Change

Developments in communication as a process of social change as it affects students, teachers, and traditional school arrangements.



USF | College of Education |

EDF 6809 Credit Hours: 3

Introduction to Comparative and International Education

This course provides an examination of the major issues surrounding comparative and international perspectives in education.

USF | College of Education |

EDF 6864 Credit Hours: 3

International Perspectives and Practices in Gifted and Talented Education

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.

USF | College of Education |

EDF 6906 Credit Hours: 1-6

Independent Study: Educational Foundations

Independent study in which students must have a contract with an instructor.

USF | College of Education |

EDF 6938 Credit Hours: 1-4

Selected Topics

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.

USF | College of Education |

EDF 6944 Credit Hours: 1-4

Field Experience

Demonstrate skills in the practice of the student's specialty. Objectives will be defined by the needs of the individual student.

USF | College of Education |

EDF 7118 Credit Hours: 3

Lifespan Development

Multidisciplinary overview of contemporary lifespan development theory and research, focusing on physical, cognitive, social, emotional, and psychological factors influencing the developing individual, and issues facing educational research and practice.

USF | College of Education |

EDF 7145 Credit Hours: 3

Cognitive Issues in Instruction

Selected cognitive models of intelligence, memory, problem solving, thinking, and motivation applied to instructional strategies.

USF | College of Education |

EDF 7227 Credit Hours: 1-12

Topics in Behavior Analysis and Automated Instruction

Seminar in experimental analysis of functional relationships between behavior and relevant environmental variables. Interpretation of complex human behavior and formulation of procedures which expedite instruction in educational procedures for computer delivery.

USF | College of Education |

EDF 7357 Credit Hours: 3

Applications of Developmental Theories

Doctoral course fulfilling the psych. Foundation requirement in the college of education. It reviews theories of development having implications for curriculum, learning, and other educ./mental health practices. Offered via distance learning periodically.

USF | College of Education |

EDF 7408 Credit Hours: 4

Statistical Analysis for Educational Research II

Theory and application of statistical procedures to problems in education: (1) ANOVA-factorial; ANCOVA; (2) multiple correlation and regression -- a specific technique and a general approach to data analysis. Coordinated use of computer included.

USF | College of Education |

EDF 7412 Credit Hours: 3

Application of Structural Equation Modeling in Education

Application of structural equation modeling in educational research, including path models, confirmatory factor analysis, structural modeling with latent variables, and latent growth curve models.

USF | College of Education |

EDF 7436 Credit Hours: 3

Rasch Measurement Models

Introduction to a family of Rasch models. Estimation procedures of item and ability parameters. Applications of Rasch models for dichotomous and polytomous data, such as item construction/selection and differential item functioning (DIF).

USF | College of Education |



EDF 7438 Credit Hours: 4

Advanced Educational Measurement II

Scaling techniques in educational and psychological measurement. Item analytic theories and practices. Validation theory, and construction and validation of instruments for measurements in education.

USF | College of Education |

EDF 7462 Credit Hours: 3

Metaevaluation

In-depth study of the theory and practice of metaevaluation; planned field applications of principles of metaevaluation; and use of metaevaluation checklists and standards of quality for professional practice to conduct metaevaluations.

USF | College of Education |

EDF 7474 Credit Hours: 3

Applied Multilevel Modeling in Education

Helps students develop skills in defining, estimating, testing, and reporting the results of multilevel models. Design issues, model specification, estimation, statistical software, and model evaluation will be discussed.

USF | College of Education |

EDF 7478 Credit Hours: 4

Qualitative Research in Education Part II

Second of two sequenced seminars examining the theoretical and pragmatic aspects of conducting qualitative research.

USF | College of Education |

EDF 7485 Credit Hours: 3

Theory and Practice of Program Evaluation

Comparative analysis of contemporary evaluation approaches; theory and scientific basis of evaluation; social and political impact of evaluation on educational decision making; and the design, implementation and reporting of evaluation studies.

USF | College of Education |

EDF 7491 Credit Hours: 3

Consulting and Project Management Skills for Evaluators

In-depth study of consulting and management skills applied to highly complex evaluations; techniques to use and control resources such as scope, time, risk, communications, and human resource management in a broad range of evaluation activities.

USF | College of Education |

EDF 7497 Credit Hours: 3

Theory and Practice of Personnel Evaluation

In-depth theoretical and practical knowledge of evaluation systems and standards for personnel evaluations, and interpersonal dynamics as related to the major personnel evaluation functions.

USF | College of Education |

EDF 7530 Credit Hours: 3

History of Higher Education in the United States

Historical overview of American higher education from Colonial period to present. History of undergraduate curriculum, changing purpose of higher ed, and growth in hierarchical categorization of higher ed as college became more accessible to students.

USF | College of Education |

EDF 7579 Credit Hours: 3

Theory and Practice of Collaborative Evaluation

This course is designed to help students gain an in-depth understanding of collaborative evaluation theory and its application to real-life situations. Students will learn how to use the model for collaborative evaluations in diverse contexts.

USF | College of Education |

EDF 7682 Credit Hours: 3

Education in Metropolitan Areas

Modern public education and its relationship to national development.

USF | College of Education |

EDF 7930 Credit Hours: 1

Professional Seminar

Ph.D. course fulfilling Educational Psych.concentration requirement under the Curr. & Instruc. doctoral program. It covers professional issues of working as an academic in research intensive or teaching college as well as working in non-academic settings.

USF | College of Education |

EDF 7940 Credit Hours: 1-8

Practicum in Educational Planning, Evaluation, and Development

Supervised practicum in which the student assumes major responsibility for significant planning, evaluation, research, or development activity.

USF | College of Education |

EDF 7947 Credit Hours: 1

Research Practicum

Provides research experience for students who plan to pursue teaching and research. Registration is restricted to doctoral students in College of Education or by permission. This doctoral



course fulfills Educational Psychology concentration requirement.

USF | College of Education |

EDG 5014 Credit Hours: 1

Introduction to Standards Based Education

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.

USF | College of Education |

EDG 6344 Credit Hours: 3

Project T.E.A.C.H. (Teacher Effectiveness and Classroom Handling)

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.

USF | College of Education |

EDG 6447 Credit Hours: 3

Instructional Design and Classroom Management

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.

USF | College of Education |

EDG 6906 Credit Hours: 1-19

Independent Study

Independent study in which students must have a contract with an instructor.

USF | College of Education |

EDG 6935 Credit Hours: 1-3

Seminar in Curriculum Research

Critical evaluation of current research and curriculum literature, design and analysis of individual research topics leading to satisfaction of research requirements.

USF | College of Education |

EDG 6971 Credit Hours: 2-19

Thesis: Masters/Education Specialist

USF | College of Education |

EDG 7035 Credit Hours: 3

Design and Evaluation of Teacher Education Programs

Students in this course will examine theories for design and evaluation of teacher ed programs. The course uses a problem-based approach in which instruction is structured around the design and evaluation of model teacher education programs.

USF | College of Education |

EDG 7066 Credit Hours: 3

Critical Pedagogy in Teacher Education

Introductions to key concepts and frameworks related to critical pedagogy. Graduate students will develop connections between theoretical exploration to teaching and scholarship in teacher education.

USF | College of Education |

EDG 7069 Credit Hours: 3

Sustainable Innovation in Education

Research and theory on sustainable innovation, including life-cycles and evolution. Includes development of case study of existing or defunct innovation's origins, development, effectiveness and current status. Open to doctoral students in COEDU.

USF | College of Education |

EDG 7357 Credit Hours: 3

Mentoring Theory and Leadership Practice

This cross-disciplinary doctoral course is for students interested in the topic and process of mentoring in education. Students from inside and outside the College of Education are eligible.

USF | College of Education |

EDG 7667 Credit Hours: 3

Analysis of Curriculum and Instruction

Various theoretical frameworks for analyzing curriculum and instruction. Emphasis on rational models of curriculum inquiry.

USF | College of Education |

EDG 7695 Credit Hours: 3

Problems of Practice in Education

Theory and research in curriculum development, including historical perspectives on curriculum movements, comparative global curriculum issues, and curriculum theories and models in use. Special attention given to innovations that succeed or fail.

USF | College of Education |

EDG 7931 Credit Hours: 1-4

Selected Topics

Selected topics in advanced Education.

USF | College of Education |

EDG 7937 Credit Hours: 1-4



Graduate Seminar

Seminar in advanced Education.

USF | College of Education I

EDG 7939 Credit Hours: 3

Advanced Graduate Seminar: Research in Progress

Interdisciplinary work and collaborative research will be fostered through an inquiry group. The group will work as a community of discursive social practice with the goal of more fully engaging doctoral students in the intellectual life of the discipline.

USF | College of Education I

EDG 7980 Credit Hours: 2-19

Dissertation

USF | College of Education I

EDH 6081 Credit Hours: 3

Junior College in American Higher Education

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.

USF | College of Education I

EDH 6661 Credit Hours: 3

Organizational Theory and Leadership in Higher Education

This course explores the theories and models of higher education organizations and the role of leadership within those organizations.

USF | College of Education I

EDH 6938 Credit Hours: 3

Seminar in College Teaching

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.

USF | College of Education I

EDH 7007 Credit Hours: 3

Gender and Higher Education

This course is designed to explore how gender manifests and in higher education, and how the ways in which higher education constructs gender creates possibilities and problems for students, faculty, and staff.

USF | College of Education | Leadership, Policy, and Lifelong Learning

EDH 7057 Credit Hours: 3

Introduction to Research Studies in Higher Education

This course introduces key studies in higher education selected from across areas of focus and a brief overview of research methodologies. Must be completed early after admittance to the doctoral program.

USF | College of Education I

EDH 7203 Credit Hours: 3

Curriculum and Instruction in Higher Education

This course explores the implications of learning theory and student characteristics for teaching at the college level; theory and practices in curriculum planning, instructional improvement, and curriculum design.

USF | College of Education I

EDH 7325 Credit Hours: 3

Supervised Teaching in Childhood Ed & Literacy Studies I

The purpose of this course is for graduate assistants to consider challenges and issues involved in preservice education. Students will reflect on their instruction, survey preservice teacher literature and develop an inquiry plan to study their teaching.

USF | College of Education I

EDH 7405 Credit Hours: 3

Policy and Legal Dimensions in Higher Education

This course is a doctoral level course with primary focus on the interface of policy and law as they address the nature, process and product of community college and higher education in the United States and Florida. Constitutional, statutory and contract law is also discussed, as are critical legal and policy issues in higher education, including governance, academic freedom, student rights, discrimination, tort liability, contracts and collective bargaining.

USF | College of Education I

EDH 7509 Credit Hours: 3

Governance and Finance in Higher Education

This course examines governance and finance structures in higher education, including policy, politics, roles and relationships that influence strategic planning and decision making.

USF | College of Education I

EDH 7633 Credit Hours: 3

Governing Colleges and Universities

Students in this course will examine and compare existing models of state and local college and university governance



structures Demographic, social, legal, financial, and planning issues and forces that effect how colleges and universities are governed will also be explored. Policy analysis and research will be explored as it relates to governance in higher education.

USF | College of Education |

EDH 7636 Credit Hours: 3
Organizational Theory and Practices in Higher Education

Explores theories and models of organizations and their applicability to colleges and universities and the work done in the influence of internal and external actors. Also examines many of the administrative practices and processes common in colleges and universities today.

USF | College of Education |

EDH 7910 Credit Hours: 1-19
Directed Research

This course provides higher education program graduate students with an opportunity for directed research, under the supervision of a higher education program faculty member.

USF | College of Education |

EDH 7980 Credit Hours: 2-30
Dissertation

USF | College of Education |

EDM 6622 Credit Hours: 3
Client Centered Middle Schools

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.

USF | College of Education |

EDM 6935 Credit Hours: 1-3
Middle School Issues Seminar

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.

USF | College of Education |

EDS 6131 Credit Hours: 3
Clinical Supervision

Trains administrators, supervisors, and peer teachers in observing and diagnosing teacher classroom performance, writing remedial plans, conducting post observation conferences, and evaluating performance.

USF | College of Education |

EDS 7130 Credit Hours: 3
Teacher Evaluation: Process and Instruments
Examines procedures for establishing content validity, reliability, norms, and predictive validity of teacher evaluation systems. Examines the psychometric qualities of selected instruments.

USF | College of Education |

EEC 6205 Credit Hours: 3
EC: Curriculum and Authentic Assessment
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.

USF | College of Education |

EEC 6415 Credit Hours: 3
EC: Diversity in Home and School
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.

USF | College of Education |

EEC 6525 Credit Hours: 3
Early Childhood Program Development and Administration
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.

USF | College of Education |

EEC 6678 Credit Hours: 3
Research Seminar: Issues and Trends in Early Childhood Education
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.

USF | College of Education |

EEC 7056 Credit Hours: 3
Leadership and Advocacy: Issues Affecting Young Children
This course focuses on developing leadership and advocacy knowledge and skills necessary for designing public policy/advocacy initiatives directly affecting children and families. Open to all adv. grad stud & may not be repeated for credit.

USF | College of Education |



EEC 7306 Credit Hours: 3

Teaching and Learning in Early Childhood

Policies and research focusing on teaching and learning in Early Childhood Education with an naturalistic inquiry / action research component. Course is open to all adv. grad students and may not be repeated for credit.

USF | College of Education |

EEC 7416 Credit Hours: 3

Sociocultural Approaches to Working with Children and Families

Focuses on issues relevant to young children within the context of their families and communities. Foundational and current research is examined in light of social policies. Open to all adv. grad stud & may not be repeated for credit.

USF | College of Education |

EEC 7615 Credit Hours: 3

Trends and Issues in Early Childhood Education

This course will focus on current issues and trends in the field of Early Childhood Education, which serves young children from birth to age 8. Open to all adv. grad stud & may not be repeated for credit.

USF | College of Education |

EEC 7627 Credit Hours: 3

Arts & Aesthetics in Early Childhood Education

Provides a synthesis of theoretical perspectives on aesthetic issues and the ramifications for the development, teaching, and the critique of arts in early childhood curriculum.

USF | College of Education |

EEC 7980 Credit Hours: 2-30

Dissertation

USF | College of Education |

EEE 5356 Credit Hours: 3

Integrated Circuit Technology

Physics and Chemistry of integrated circuit and discrete device fabrication, materials limitations, processing schemes, failure and yield analysis. A laboratory is integral to the course.

USF | College of Engineering | Electrical Engineering

EEE 6205 Credit Hours: 3

Personal Health Systems

The theory and design of personal health systems. Students design, build and evaluate personal health systems that are patient-facing; enable ubiquitous interaction with health; and employ persuasive techniques for behavior change.

USF | College of Engineering | Electrical Engineering

EEE 6273 Credit Hours: 3

Chemical/Biological Sensors and Microfabrication

This course discusses general concepts of MEMS, microfabrication and chem/bio sensors. The course concentrates on basics of MEMS, different processes involved and principles of sensing and understanding systems approaches to problems that require Sensors/MEMS.

USF | College of Engineering | Electrical Engineering

EEE 6277 Credit Hours: 3

Bioelectronics

Second course in the series covering bioelectrical phenomena and systems. The focus is electronics for biomedical applications.

USF | College of Engineering | Electrical Engineering

EEE 6282 Credit Hours: 3

Biomedical Systems and Pattern Recognition

Covers 'models for analysis of biomedical systems, both theoretical and computer-based' and 'biomedical pattern spaces, feature extraction and statistical pattern recognition' for insight into bio-systems and efficient integration with medical systems.

USF | College of Engineering | Electrical Engineering

EEE 6345 Credit Hours: 3

VLSI for Signal Processing

VLSI applications in signal processing and telecommunications. General purpose DSP architectures. ASIS architectures: systolic arrays, data-flow multiprocessing, wavefront arrays. Case histories: modems, echo cancelers, digital PLL, etc. High-speed arithmetic and algorithms.

USF | College of Engineering | Electrical Engineering

EEE 6355 Credit Hours: 3

Compound Semiconductor Technology

Bulk crystal and epitaxial growth technologies of III-V and II-VI compound semiconductors. The properties, characterization, and device applications of these compounds will be emphasized.

USF | College of Engineering | Electrical Engineering

EEE 6358 Credit Hours: 3

Semiconductor Device Theory II

Theory of operation and application of circuits and devices.

USF | College of Engineering | Electrical Engineering

EEE 6369 Credit Hours: 3

MMIC Design



Presents the design theory, technology, and applications of monolithic microwave integrated circuits (MMICs) and briefly introduces design theory and concept for radio frequency integrated circuits (RFICs).

USF | College of Engineering | Electrical Engineering

EEE 6412 Credit Hours: 3
System on a Chip

Fundamental concepts: 2D and 3D SoCs. Digital, analog, MEMS, sensors, optoelectronics, and communication/networking blocks for SoC. DNA chips. Fabrication techniques including photolithography, TFD, and etching. Platform based design. Applications.

USF | College of Engineering | Electrical Engineering

EEE 6432 Credit Hours: 3
Nanostructures and Nanomaterials for Sustainable Systems

Introduction to nanostructures (tubes, wires, fibers, laminates, spheres, etc.) and materials used to create these structures for sustainable systems to solve global issues for the environment, alternative energy, medicine, pharmacy, sports, space, etc.

USF | College of Engineering | Electrical Engineering

EEE 6514 Credit Hours: 3
Biomedical Image Processing

2D signal processing: image enhancement; edge detection and image segmentation. Medical imaging: 3D computerized tomography, magnetic resonance imaging; single photon emission computed tomography; positron emission tomography; radiographs.

USF | College of Engineering | Electrical Engineering

EEE 6586 Credit Hours: 3
Speech Signal Processing

Speech models: acoustic tube, source-filter. Time and frequency domain properties. Linear prediction analysis of speech. Speech coding: apcm, dpcm, adpcm, sub-band, vq, etc. Speech synthesis and recognition. Speech processing hardware.

USF | College of Engineering | Electrical Engineering

EEL 5250 Credit Hours: 3
Power System Analysis

Analysis and design technique for AC power systems.

USF | College of Engineering | Electrical Engineering

EEL 5594L Credit Hours: 3
Wireless Circuits and Systems Laboratory

An extensive hands-on introduction to wireless radio frequency and microwave circuits and systems, involving modern

measurements, fabrication and computer-aided design experiences at both component and sub-system levels.

USF | College of Engineering | Electrical Engineering

EEL 5935 Credit Hours: 1-3
Special Electrical Engineering Topics I

USF | College of Engineering | Electrical Engineering

EEL 5937 Credit Hours: 1-3
Special Electrical Engineering Topics III

USF | College of Engineering | Electrical Engineering

EEL 6020 Credit Hours: 2
Applied Optimization

This course is to give graduate students the mathematical knowledge and computer skill to solve the optimization problem within the engineering disciplines and their applications.

USF | College of Engineering | Electrical Engineering

EEL 6023 Credit Hours: 2
Numerical Methods and Partial Differential Equations

This course will cover a range of numerical methods to solve engineering problems, specifically those resulting in partial differential equations, including numerical linear algebra, finite differences, finite element method, and initial value problems.

USF | College of Engineering | Electrical Engineering

EEL 6025 Credit Hours: 1
Math I for Professionals

Complex analysis: complex algebra, phasors description of circuits. Optimization theory: linear and nonlinear programming, Kuhn-Tucker conditions.

USF | College of Engineering | Electrical Engineering

EEL 6027 Credit Hours: 3
Engineering Applications for Vector Analysis

Vector methods of electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.

USF | College of Engineering | Electrical Engineering

EEL 6029 Credit Hours: 3
Statistical Inference

This first-tier graduate course aims at establishing the background in mathematical statistics, and abstract modeling of complex cyber systems, data analytics, and Bayesian intelligence for graduate students in electrical and systems engineering.

USF | College of Engineering | Electrical Engineering



EEL 6227 Credit Hours: 3

Electrical Machines and Drives

A graduate course intended to familiarize students with the electrical to mechanical energy converters known as machines and the power electronic circuits used to control the machines and produce integrated drives.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6256 Credit Hours: 3

Power Systems II

A graduate course intended to familiarize students with the dynamics, control and protection of electrical power systems.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6263 Credit Hours: 3

Industrial Power Distribution II

Prepares student to design electrical power systems for industrial applications. Focuses on switchgear and motor control centers, ladder logic, motor application, lighting systems, power factor correction, and power quality.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6289 Credit Hours: 3

Sustainable Energy

Introduction to concepts of sustainable energy conversion. Solar, wind, hydroelectricity, hydrogen, biomass and geothermal energy conversion methods as well as main storage technologies will be discussed.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6293 Credit Hours: 3

Power Quality

Course in basic power quality concepts including interruptions, voltage sags and swells, transient overvoltages, and harmonics. Emphasis is placed on identifying and designing means of mitigation for commonly-encountered power quality problems.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6425 Credit Hours: 2

RF and Microwave Measurements

Concentrates on the theory and applications of modern radio frequency and microwave measurements. Topics include network analyzer, spectrum analyzer, noise, power and non-linear distortion measurements.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6427 Credit Hours: 3

RF and Microwave Circuits II

This course presents the design theory and analysis of microwave transistor amplifiers and oscillators. Lectures,

homework, and CAD projects develop an understanding of the design and performance issues for this class of circuits.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6481C Credit Hours: 3

Numerical Techniques in Electromagnetism

Review of Maxwell's equations. Finite differences, finite elements, boundary elements method of moments. Introduction to geometric theory of optics and diffraction.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6487C Credit Hours: 3

Advanced Electromagnetic Field Theory

Time harmonic fields emphasizing problems with exact solutions in the rectangular, cylindrical and spherical coordinate systems. Solutions by methods, Green's functions and vector methods.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6534 Credit Hours: 3

Digital Communication Systems

Digital communication & info. theory. Random processes. Digital modulation and demodulation. Source & channel coding. Detection theory: matched filter and sequence detection. Multiple access techniques. Spread spectrum & multi-user radio communications.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6592 Credit Hours: 3

Wireless Communication Systems Lab

An extensive introduction to digital communications and wireless communication systems; involving testing, modeling, simulating, and evaluating the performance of digital communication systems at both sub-system and complete system levels.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6597 Credit Hours: 3

Wireless Network Architecture and Protocols

Wireless systems and standards. Network fundamentals. Channel characteristics, models. Modulation/coding, spread spectrum. Multiple access control: TDMA/FDMA/CDMA. Mobility/resource management. Wireless network architecture-cellular, satellite, broadband.

[USF | College of Engineering | Electrical Engineering](#)

EEL 6615 Credit Hours: 3

Systems and Control Theory II

Continuation of [\[\[permalink=1492|tooltip: {'title': 1}\]\]%prefix% %code%\[\[/permalink\]\]](#).

[USF | College of Engineering | Electrical Engineering](#)



EEL 6654 Credit Hours: 3

Control Systems Engineering

A course with emphasis on dynamic system modeling, design, analysis, and system verification following systems engineering approaches. The course introduces techniques, applications and trends from a trans/multi/inter/disciplinary perspectives.

USF | College of Engineering | Electrical Engineering

EEL 6722C Credit Hours: 3

DSP/FPGA Laboratory

Development of real-time digital signal processing (DSP) systems from algorithm to hardware using DSP, FPGA and hybrid DSP/FPGA rapid prototyping platforms. The course has both lecture and laboratory components.

USF | College of Engineering | Electrical Engineering

EEL 6729 Credit Hours: 3

Rapid System Prototyping

Focus on digital synthesis targeting FPGAs as a way of obtaining rapid prototypes of digital circuits.

USF | College of Engineering | Electrical Engineering

EEL 6753 Credit Hours: 3

Digital Signal Processing III

Advanced topics in digital signal processing, e.g., A. adaptive arrays, beam forming and applications to radar and sonar; B. multi-rate filtering, multi-resolution analysis, sub-band analysis, wavelet transforms and applications to images and other large-scale measurements; C. noise cancellation; and D. inverse problems, such as CT reconstruction.

USF | College of Engineering | Electrical Engineering

EEL 6787 Credit Hours: 3

Data Network, Systems, and Security

The objective of this course is to provide a technical and operational introduction to data/computer communication networks, including network management and security.

USF | College of Engineering | Electrical Engineering

EEL 6908 Credit Hours: 1-19

Independent Study

Independent study in which students must have a contract with an instructor.

USF | College of Engineering | Electrical Engineering

EEL 6936 Credit Hours: 1-3

Special Topics

Selected topics.

USF | College of Engineering | Electrical Engineering

EEL 7910 Credit Hours: 1-19

Directed Research

USF | College of Engineering | Electrical Engineering

EEL 7980 Credit Hours: 2-19

Dissertation: Doctoral

USF | College of Engineering | Electrical Engineering

EEX 5705 Credit Hours: 2

Seminar in Preschool Handicapped

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.

USF | College of Education |

EEX 6025 Credit Hours: 3

Trends and Issues in Special Education

Survey of all exceptionalities including current trends and issues related to the field of special education.

USF | College of Education |

EEX 6065 Credit Hours: 3

Collaborative Transition and Career Planning for Students with Low Incidence Disabilities

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.

USF | College of Education |

EEX 6224 Credit Hours: 6

Developing Individualized Educational Programs for Students with Disabilities

This 6-hour course reinforces and extends competencies in assessment, behavior management, legal and ethical foundations of special education, instructional planning, 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.

USF | College of Education |

EEX 6245 Credit Hours: 3

Transitional Programming for the Adolescent and Young Adult Exceptional Student

Procedures for implementing educational programs with exceptional adolescents. Includes educational programming,



alternative programs, community resource coordination, career/occupational education, and advocacy.

USF | College of Education I

EEX 6248 Credit Hours: 3
Instructional Approaches for Exceptional Populations

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.

USF | College of Education I

EEX 6476 Credit Hours: 3
Curriculum and Instruction for Students with Low Incidence Disabilities

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.

USF | College of Education I

EEX 6602 Credit Hours: 3
Observational Methods and Functional Assessment

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.

USF | College of Education I

EEX 6619 Credit Hours: 3
Positive Behavior Support Low Incid. Intellectual Disab. & ASD

Knowledge and skills necessary to develop, implement, and evaluate the impact of positive behavior support for students with s/pintellect. disab and/or autism spectrum disorder. Communicative function of challenging behaviors, teaching new skills & prevention.

USF | College of Education I

EEX 6732 Credit Hours: 3
Consultation and Collaboration in Special Education

Theories of consultation and collaboration. Overview of service delivery models in special education.

USF | College of Education I

EEX 6906 Credit Hours: 1-6
Independent Study: Special Education

Independent study in which students must have a contract with an instructor.

USF | College of Education I

EEX 6943 Credit Hours: 1-4
Practicum in Exceptional Student Education

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.

USF | College of Education I

EEX 7301 Credit Hours: 1-8
Selected Topics in Special Education

Identification and study of ethical and research issues in special education. Opportunity will be provided for the student to gather and process data, as appropriate, culminating in a written report and/or oral presentation to fellow student researchers.

USF | College of Education I

EEX 7342 Credit Hours: 3
Making your Research Accessible

This doctoral seminar critically examines performance theories and performance and qualitative arts-based research methods as a mechanism for disseminating research findings and making research more accessible to the community in which it takes place.

USF | College of Education I

EEX 7425 Credit Hours: 1-2
Special Education Leadership Studies

Introduction to doctoral studies in the Department of Special Education. Discussion forum for new students, mentoring and support.

USF | College of Education I

EEX 7429 Credit Hours: 3
Special Education Teacher Education

This seminar will explore historical foundations of teacher education and special education specifically. Professional development and pathways to teaching will be explored. Existing research in SPED teacher preparation will be reviewed.

USF | College of Education I

EEX 7744 Credit Hours: 3
Curriculum and Instructional Issues in Urban Special Education



The purpose of this course is to review and critically examine the theoretical and research literature on the interactions of race, culture, class, and disability on the schooling experiences of urban (ethnic minority and impoverished) children and their families. The course also takes into account that ethnic minority and poor children may or may not reside in urban areas and as a result of school and community desegregation movements, those learners may also attend suburban and rural schools, in addition to urban schools. The course will provide varied formats for graduate students to identify and address critical issues and trends in urban special education and related services areas that impact outcomes for minority learners across social classes and impoverished learners from majority cultural backgrounds.

USF | College of Education I

EEX 7746 Credit Hours: 3
Ethics in Teacher Education and Teacher Development

This course will focus on the philosophical and theoretical perspectives of ethics and ethical decision making as they relate to the roles and responsibilities of teacher educators in the preparation and professional development of teachers.

USF | College of Education I

EEX 7815 Credit Hours: 1-9
Research Seminar

This seminar, taken each semester of the first and second years of the doctoral program, will contribute to the development of the skills and values that lead to the creation of new knowledge and its application to the field of special education in order to improve outcomes for students who have disabilities and their families. Issues in urban schools will be emphasized.

USF | College of Education I

EEX 7910 Credit Hours: 1-19
Directed Research

This course provides higher education program graduate students with an opportunity for directed research under the supervision of an higher education program faculty member.

USF | College of Education I

EEX 7980 Credit Hours: 2-30
Dissertation

USF | College of Education I

EGI 5307 Credit Hours: 3
Theory and Development of Creativity

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.

USF | College of Education I

EGI 6415 Credit Hours: 3
Consultation, Counseling, and Guidance Skills for Gifted Students

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.

USF | College of Education I

EGI 6943 Credit Hours: 1-12
Supervised Practicum in Gifted Education

Planned experiences working with students who are gifted, program development and administration, or an individualized inquiry of a specific issue related to gifted education.

USF | College of Education I

EGN 5422 Credit Hours: 3
Engineering Applications of Partial Differential Equations

Power series solutions for ordinary differential equations, Sturm-Liouville theory, special functions. Vector methods with generalized coordinates. Separation of variables for partial differential equations. Green's functions. Calculus of variations. Numerical methods.

USF | College of Engineering | Interdisciplinary Engineering

EGN 5424 Credit Hours: 3
Engineering Applications of Complex Analysis

Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.

USF | College of Engineering | Interdisciplinary Engineering

EGN 6333 Credit Hours: 3
Continuum Mechanics

This course covers the fundamental mathematical and physical principles of Newtonian Mechanics as applied to continuous media, including solids & fluids, and complete linear & non-linear description of kinematics and equilibrium in the Lagrangian frame.

USF | College of Engineering | Civil and Environmental Engineering

EIN 5182 Credit Hours: 3
Principles of Engineering Management

Introduction to the fundamentals of planning, organizing and leadership as needed by engineers, scientists, and other professionals considering managerial positions.

USF | College of Engineering | Industrial and Management Systems Engineering



EIN 5275 Credit Hours: 3**Work Physiology and Biomechanics**

Human physiological limitations encountered in design, analysis and evaluation of man-machine systems.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 5452 Credit Hours: 3**Engineering a Lean Enterprise**

Engineering the Lean Enterprise introduces you to one of the most successful strategies in operations: lean manufacturing, as seen at Toyota and other companies. Lean manufacturing is a philosophy that applies both on and off the factory floor.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6106 Credit Hours: 3**Technology and Law**

Selected topics related to the relationships between and among technology, law and social policy, including governmental regulation, products liability, professional liability, contract negotiation and formation, and developments and trends affecting engineering professionals.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6112 Credit Hours: 3**Information Systems Design for Engineers**

This course introduces students to the design and implementation of information systems, with special emphasis on industrial applications. The topics to be covered include the relational database model, structured query language, and design methodologies.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6145 Credit Hours: 3**Project Management**

Provide principles and techniques for planning, scheduling and managing projects in engineering and related environments. Applies analytical tools and techniques including software to solve project management problems. Not restricted. Non-repeatable.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6177 Credit Hours: 3**Total Quality Management Seminar**

Study and analysis of TQM Principles through discussion, guest lecturers, critiques of published articles. A variety of quality techniques will be examined to determine their level of adoption and effectiveness. Unrestricted. Nonrepeatable for credit.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6179 Credit Hours: 3**Advanced TQM Methods: Six Sigma**

This course is a presentation of Six Sigma in industry: details of the methodology that comprise it, and how it relates to Total Quality Management. This course is restricted to students pursuing majors in the IMSE Department. Nonrepeatable for credit.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6215 Credit Hours: 3**Engineering System Safety**

The theory and practical implications of the concept of systems safety as these relate to the life cycle of a product or system. Analysis of the fundamental concepts, design implications, and specifications of safety in human machine environments.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6217 Credit Hours: 3**Construction Safety Engineering**

Course based on OSHA course 510; covers applicable standards to industry's most common violations; examples of accidents resulting from ignoring standards; documented incidents are researched. Completion of course includes receipt of 30-hour OSHA Card.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6319 Credit Hours: 3**Work Design and Productivity Engineering**

Foundations of motivated work performance, job satisfaction and organizational productivity. Analysis of job content and job context, comparison of different concepts for improving organizational effectiveness; suggestions for productivity improvements through effective work redesign.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6386 Credit Hours: 3**Management of Technological Change**

A study of problems encountered by managers in the planning, organizing, directing, and controlling of resources in technology-based organizations.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6430 Credit Hours: 3**Overview of Regulated Industries**



This course provides students with basic information on regulated industries, emphasizing challenges experienced in medical device development, manufacture and commercialization with regard to regulatory requirements. Unrestricted. Nonrepeatable.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6432 Credit Hours: 3
Regulated Product Approval Process

The course provides students with information to collaborate effectively with the FDA to navigate the product approval process, emphasizing medical devices. The underlying scientific, regulatory and quality processes for submission will be reviewed.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6434 Credit Hours: 3
Design Controls for Medical Devices

The course provides students with information to establish procedures to effectively control the design requirements and specifications for medical devices. The design process will be examined to apply the best approaches for verification and validation.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6518 Credit Hours: 3
Systems Integration

The planning and process that results integration of components, various functions, organizations and how integrated work together or share resources to produce an integrated system.

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6934 Credit Hours: 1-3
Special Industrial Topics I

USF | College of Engineering | Industrial and Management Systems Engineering

EIN 6936 Credit Hours: 1-3
Special Industrial Topics III

USF | College of Engineering | Industrial and Management Systems Engineering

ELD 6015 Credit Hours: 3
Advanced Theories and Practices in Specific Learning Disabilities

Various conceptual and/or theoretical models are reviewed; current trends and issues related to education of children with specific learning disabilities.

USF | College of Education I

EMA 5326 Credit Hours: 3
Corrosion Control

Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.

USF | College of Engineering | Civil and Environmental Engineering

EMA 6510 Credit Hours: 3
Characterization of Materials

Designed to help students engineers and technicians who have little to moderate background in materials analysis to realize and or gain and deeper understanding of the many analytical characterization methods available.

USF | College of Engineering | Chemical and Biomedical Engineering

EME 5403 Credit Hours: 3
Computers in Education

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.

USF | College of Education I

EME 6053 Credit Hours: 3
Internet in Education

The course is completely online. Topics include: educational resources, copyright and safety issues, webpage construction (HTML), and evaluation of websites.

USF | College of Education I

EME 6076 Credit Hours: 4
Introduction to Online Teaching and Learning

The course will explore the principles of the online teaching and learning community and instructor competencies used in facilitating online courses.

USF | College of Education I

EME 6207 Credit Hours: 3
Web Design

This course focuses on the design and development of instructional and informational web sites.



USF | College of Education |

EME 6209 Credit Hours: 3

Digital Video

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.

USF | College of Education |

EME 6235 Credit Hours: 3

Technology Project Management

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.

USF | College of Education |

EME 6347 Credit Hours: 3

Digital Media and Learning

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.

USF | College of Education |

EME 6356 Credit Hours: 3

Introduction to Big Data and Learning Analytics

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.

USF | College of Education |

EME 6425 Credit Hours: 3

Technology for School Management

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.

USF | College of Education |

EME 6613 Credit Hours: 3

Development of Technology-Based Instruction

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.

USF | College of Education |

EME 6817 Credit Hours: 3

Data in Assessment and Accreditation

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.

USF | College of Education |

EME 6930 Credit Hours: 3

Programming Languages for Education

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.

USF | College of Education |

EME 6971 Credit Hours: 2-9

Thesis: Masters/Educational Specialist

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.

USF | College of Education |

EME 7458 Credit Hours: 3

Research in Distance Learning

An on-line course about distance learning designed to provide an integrated framework to explore theory within practice. Topics include distance technologies; implications for teaching and learning; issues and trends; and research.

USF | College of Education |

EME 7631 Credit Hours: 3

Research in Technology Project Management

A graduate level course that examines project management and provides tools and process to apply sound project management principles to the field of instructional design and technology. Topics include project management issues related to time, resources, technical, and people skills.

USF | College of Education |

EME 7938 Credit Hours: 3

Computer-Augmented Instructional Paradigms in Education

Seminar examining theory and application of computers and related technology in teaching and learning.

USF | College of Education |

EME 7980 Credit Hours: 2-30



Dissertation

USF | College of Education I

EML 6069 Credit Hours: 3

Advanced Mathematics for Mechanical Engineers

Basic theory of ordinary and partial differential equations useful in applications. First- and second-order equations, separation of variables, Fourier series, Laplace transforms.

USF | College of Engineering | Mechanical Engineering

EML 6154 Credit Hours: 3

Advanced Conduction Analysis

Multi-dimensional heat transfer. Emphasis on solution techniques, exact and numerical.

USF | College of Engineering | Mechanical Engineering

EML 6223 Credit Hours: 3

Synthesis of Vibrating Systems

Advance topics in vibration. Random vibration in mechanical systems. Auto-correlation and power spectral density. Response of single and multidegree of freedom systems to random excitation. Frequency response function and coherency measurements. Contents variable.

USF | College of Engineering | Mechanical Engineering

EML 6273 Credit Hours: 3

Advanced Dynamics of Machinery

Detailed study of velocities, accelerations and forces in machines with parts having rotating, reciprocating, and combined motion.

USF | College of Engineering | Mechanical Engineering

EML 6311 Credit Hours: 3

Advanced Controls

This course introduces students to the concepts in feedback control systems using state-space methods. Topics covered include system modeling, system analysis, and feedback control design (theory and illustrations).

USF | College of Engineering | Mechanical Engineering

EML 6594 Credit Hours: 3

Haptics

Course covers the theory and implementation of haptic interfaces and rendering, teleoperation, modeling, control and stability of feedback for robotic systems and virtual environments, and introduces the related human haptic sensing capabilities.

USF | College of Engineering | Mechanical Engineering

EML 6713 Credit Hours: 3

Advanced Fluid Mechanics

Introduction to computational problem solutions in fluid mechanics and heat and mass transfer as applied to mechanical engineering. The emphasis is on the formulation and solution of computational engineering problems.

USF | College of Engineering | Mechanical Engineering

EML 6801 Credit Hours: 3

Robotic Systems

Overview of existing industrial and specialized robot types and operation; vision systems; tactile sensors; ranging and proximity techniques; actuation/transmission methods; power sources; autonomous vehicle mobility and navigation methods; and artificial intelligence.

USF | College of Engineering | Mechanical Engineering

EML 6907 Credit Hours: 1-6

Independent Study

Independent study in which students must have a contract with an instructor.

USF | College of Engineering | Mechanical Engineering

EML 6931 Credit Hours: 1-3

Special Problems II

USF | College of Engineering | Mechanical Engineering

EML 7915 Credit Hours: 1-6

Directed Research

USF | College of Engineering | Mechanical Engineering

EMR 6052 Credit Hours: 3

Advanced Theories and Practices in Mental Retardation

In-depth study of the complex social and biological aspects of mental retardation with particular reference to effects on education.

USF | College of Education I

ENC 6261 Credit Hours: 3

Professional and Technical Communication

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.

USF | College of Arts and Sciences | English

ENC 6333 Credit Hours: 3

Contemporary Rhetorics

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.

USF | College of Arts and Sciences | English

ENC 6421 Credit Hours: 3
Studies in Rhetoric and Technology

Examines the intersection of Rhetoric and technology, with emphasis on contemporary critical issues in composition studies.

USF | College of Arts and Sciences | English

ENC 6700 Credit Hours: 3
Studies in Composition Theory

Major theories and models of composing. Selected theorists include Rohman, Emig, Sommers, Flowers, and Hayes.

USF | College of Arts and Sciences | English

ENC 6740 Credit Hours: 3
Theory and Development of Writing Programs

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.

USF | College of Arts and Sciences | English

ENG 6005 Credit Hours: 3
Scholarly Research and Writing

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.

USF | College of Arts and Sciences | English

ENG 6018 Credit Hours: 3
Studies in Criticism and Theory I

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.

USF | College of Arts and Sciences | English

ENG 6067 Credit Hours: 3
History of the English Language

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.

USF | College of Arts and Sciences | English

ENG 6916 Credit Hours: 1-19
Directed Research

USF | College of Arts and Sciences | English

ENG 6946 Credit Hours: 3
Internship

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.

USF | College of Arts and Sciences | English

ENG 7916 Credit Hours: 1-19
Directed Research

USF | College of Arts and Sciences | English

ENG 7980 Credit Hours: 2-19
Dissertation: Doctoral

USF | College of Arts and Sciences | English

ENL 6206 Credit Hours: 3
Studies in Old English

A study of Old English language, prose style, poetry.

USF | College of Arts and Sciences | English

ENL 6226 Credit Hours: 3
Studies in Sixteenth-Century British Literature

Selected focused studies in sixteenth-century British literature; Shakespeare, Sidney, Spenser, Marlowe, and others.

USF | College of Arts and Sciences | English

ENL 6236 Credit Hours: 3
Studies in Restoration and Eighteenth-Century British Literature

Selected focused studies in Restoration and Eighteenth-Century British literature: Dryden, Defoe, Pope, Swift, Fielding, Sheridan, Johnson, Boswell, and others.

USF | College of Arts and Sciences | English

ENL 6256 Credit Hours: 3
Studies in Victorian Literature

A study of Victorian poetry, fiction, non-fictional prose, and drama.

USF | College of Arts and Sciences | English

ENT 6016 Credit Hours: 3
New Venture Formation



An introductory entrepreneurship course. Students learn to develop venture ideas, evaluate venture opportunities and understand financial, marketing, and managerial needs of a venture.

USF | Muma College of Business |

ENT 6119 Credit Hours: 3

Mergers and Acquisitions: An Entrepreneurial Perspective

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.

USF | Muma College of Business |

ENT 6186 Credit Hours: 3

Strategic Market Assessment

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.

USF | Muma College of Business |

ENT 6415 Credit Hours: 3

Fundamentals of Venture Capital and Private Equity

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.

USF | Muma College of Business |

ENT 6507 Credit Hours: 3

Social Entrepreneurship in Emerging Markets

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.

USF | Muma College of Business |

ENT 6509 Credit Hours: 3

Social Entrepreneurship II

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.

USF | Muma College of Business |

ENT 6619 Credit Hours: 3

Creativity and Design

This course presents a broad framework of creativity and its applications in business.

USF | Muma College of Business |

ENT 6930 Credit Hours: 3

Special Topics in Entrepreneurship

A special topics section for students pursuing their MS in Entrepreneurship and Applied Technology. Faculty will periodically offer elective courses on topics of interest.

USF | Muma College of Business |

ENV 5103 Credit Hours: 3

Air Pollution Control

Behavior and effects of atmospheric contaminants and the principles of making measurements in the air environment. Basic concepts of meteorology and control technology are discussed. Regulatory aspects and air pollution standards are covered.

USF | College of Engineering | Civil and Environmental Engineering

ENV 5345 Credit Hours: 3

Solid Waste Control

Introduction to solid waste management, including its definition as an umbrella for hazardous waste: regulatory concepts; waste types, quantities, and characterization; collection and recycling; facility siting; disposal; thermal treatment.

USF | College of Engineering | Civil and Environmental Engineering

ENV 6002 Credit Hours: 3

Physical and Chemical Principles in Environmental Engineering

Investigates how chemical properties, physical processes, and environmental characteristics all influence the fate and transport of chemicals in natural and engineered systems. Includes theory, practical examples, and laboratory experiments.

USF | College of Engineering | Civil and Environmental Engineering

ENV 6105 Credit Hours: 3

Air Pollution Fundamentals

A graduate level survey of air pollution fundamentals, including physics/chemistry of air pollution, sources and emissions estimation, Gaussian dispersion models, exposures and effects, measurement/monitoring, and management/control.

USF | College of Engineering | Civil and Environmental Engineering

ENV 6438 Credit Hours: 3

Physical & Chemical Processes for Treatment of Drinking Water



Theory, analysis, and design of physical and chemical processes typically used for treatment of U.S. public water supply.

USF | College of Engineering | Civil and Environmental Engineering

ENV 6518 Credit Hours: 3
Environmental Field Sampling

This course is designed to provide students with an interest in the field of environmental science/engineering, with the highest level of practical, hands-on environmental field training to help them advance their careers.

USF | College of Engineering | Civil and Environmental Engineering

ENV 6539 Credit Hours: 3
Sludge Treatment and Disposal

Examines the physical, chemical, and biological unit operations and processes utilized in treating and disposing of sludges produced at water and wastewater treatment facilities.

USF | College of Engineering | Civil and Environmental Engineering

ENV 6614 Credit Hours: 3
Quantitative Environmental Risk Analysis

Quantitative approach to the determination of risk. Focus is on environmental and control and protection, but techniques apply widely. Covers assessment of risk factors, failure, contaminant transport, and health effects. Includes discussion of significance, implementation, and policy. Course project involves the development of small risk analysis model.

USF | College of Engineering | Civil and Environmental Engineering

ENV 6666 Credit Hours: 3
Aquatic Chemistry

An introduction to the form, structure, and chemical activities of the important processes essential to treatment of domestic and industrial wastewater.

USF | College of Engineering | Civil and Environmental Engineering

ENV 6935 Credit Hours: 1
Environmental & Water Resources Engineering (EWRE) Seminar

This course consists of oral presentations made by EWRE students, faculty members, and outside speakers on their current topics of environmental and water resource engineering.

USF | College of Engineering | Civil and Environmental Engineering

EOC 6441C Credit Hours: 3

Resilient, Sustainable, and Secure Port Operations and Infrastructure

The course addresses the primary aspects of resiliency, sustainability, safety, and security in port infrastructure and operations: fundamentals of maritime transportation, natural hazards, climate change, community interactions, and economic development.

USF | College of Marine Science | Marine Science

EPD 5321 Credit Hours: 3
Educational Strategies for Physically and Multi-handicapped Students

Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.

USF | College of Education |

ESE 5342 Credit Hours: 3
Teaching the Adolescent Learner

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.

USF | College of Education |

ESE 6256 Credit Hours: 1-3
Problems in Curriculum Instruction: Secondary

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.

USF | College of Education |

ESE 7220 Credit Hours: 3
Curriculum Frameworks in Teacher Education

This course introduces and informs advanced graduate students about the conceptions of curriculum development related to teacher preparation, exploring topics related to the comprehensive process of certification, standards, governance, and accreditation.

USF | College of Education |

ESE 7346 Credit Hours: 3
Collegiate Teaching in Secondary Education

This course prepares new phd students for successful teaching in secondary education. Special attention will be given to the state of collegiate teaching, understanding how people learn, facilitating student learning, and becoming a reflective educator.

USF | College of Education |

ESI 5219 Credit Hours: 3



Statistical Methods for Engineering Managers

Study of statistical methods applied to engineering management problems involving estimation and prediction under conditions of uncertainty.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 5306 Credit Hours: 3

Operations Research for Engineering Management

Linear programming, non-linear programming, queuing, inventory, network analysis.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6213 Credit Hours: 3

Stochastic Decision Models I

Study of the theory behind the statistical techniques applied to the solving of engineering problems.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6247 Credit Hours: 3

Statistical Design Models

Design of experimental mathematical models. Application of advanced analysis of variance techniques as applied to industrial problems.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6328 Credit Hours: 3

Revenue Management and Pricing

Revenue Management (RM) is a set of operational tools for generating more revenue with resource allocations and/or dynamic pricing. This course will cover the fundamental concepts of RM, with mathematical models and algorithms.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6345 Credit Hours: 3

Markov Decision Processes

This course is a rigorous introduction to the theoretical, applied and computational aspects of Markov Decision Processes, which is the study of sequential stochastic decision-making problems.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6353 Credit Hours: 3

Risk and Decision Analysis

This course gives a formal introduction to risk analysis and utility theory. It focuses on the conceptual and mathematical

foundations underlying the quantification and management of risk to support dynamic decision making under uncertainty.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6420 Credit Hours: 3

Non-Linear Programming

General theory and characteristics of NLP, as well as effective solution algorithms that can be used to solve NLP problems and support effective management decision making.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6448 Credit Hours: 3

Integer Programming

The course will present the theory and algorithms of integer programming, with emphasis on its applications in engineering. The tentative topics include integer programming formulation and relaxation and decomposition algorithms.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6493 Credit Hours: 3

Multi-Objective Optimization

Many real-world optimization problems involve multiple, often conflicting, goals. Hence, the focus of this course is on recent theoretical and algorithmic advancements for solving such optimization problems.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6635 Credit Hours: 3

Advanced Analytics I

This course will introduce concepts, techniques, and derivation procedures of classic statistical inference and utilize them to assist understanding of modern statistical learning problems, e.g., classification, regression, clustering, etc.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6681 Credit Hours: 3

Deep Learning Analytics

Introduction to neural networks and deep learning with a focus on architectures, optimization, and applications.

USF | College of Engineering | Industrial and Management Systems Engineering

ESI 6911 Credit Hours: 1-19

Directed Research

USF | College of Engineering | Industrial and Management Systems Engineering



ESI 7980 Credit Hours: 2-19

Dissertation: Doctoral

USF | College of Engineering | Industrial and Management Systems Engineering

EVR 5956 Credit Hours: 3

Methods of Sustainable Development

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.

USF | College of Arts and Sciences | School of Geosciences

EVR 6101 Credit Hours: 3

Geomorphology for Environmental Scientists

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.

USF | College of Arts and Sciences | School of Geosciences

EVR 6116 Credit Hours: 3

Coastal Hazards and Resilience

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.

USF | College of Arts and Sciences | School of Geosciences

EVR 6320 Credit Hours: 3

Environmental Management

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.

USF | College of Arts and Sciences | School of Geosciences

EVR 6876 Credit Hours: 3

Wetlands, People and Public Policy

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.

USF | College of Arts and Sciences | School of Geosciences

EVR 6921 Credit Hours: 1-2

Scholarly Presentation of Environmental Research

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.

USF | College of Arts and Sciences | School of Geosciences

EVR 6930 Credit Hours: 1

Research Colloquium in Environmental Science and Policy

Scholarly presentations by invited academic researchers and leading policy decision-makers.

USF | College of Arts and Sciences | School of Geosciences

EVR 6934 Credit Hours: 3

Graduate Environmental Science, Policy, and Management Selected Topics

Selected topics, issues and problems in Environmental Science and Policy.

USF | College of Arts and Sciences | School of Geosciences

EVR 6937 Credit Hours: 3

Seminar in Environmental Policy

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.

USF | College of Arts and Sciences | School of Geosciences

EVR 6971 Credit Hours: 2-19

Thesis: Master's

USF | College of Arts and Sciences | School of Geosciences

EVR 7980 Credit Hours: 2-15

Doctoral Dissertation Research

The dissertation is an original contribution to scholarship. The research is performed under the guidance of the major professor, which determines how many dissertation hours are completed (maximum 42 hours).

USF | College of Arts and Sciences | School of Geosciences

EVT 6971 Credit Hours: 2-19

Thesis: Masters/Educational Specialist

USF | College of Education I

EXP 7099 Credit Hours: 1-3

Graduate Seminar in Experimental Psychology



Seminars on topics, such as learning, perception, memory, cognitive processes, and quantitative methods.

USF | College of Arts and Sciences | Psychology

FIN 5006 Credit Hours: 0 MBA Essentials: Finance

The role of the finance within the corporation; financial statement analysis; discounted cash flow analysis; valuation of financial assets; and financial planning.

USF | Muma College of Business |

FIN 6326 Credit Hours: 3 Bank Management

Theory, policy and practice of commercial bank management with emphasis on strategic issues and decision making in an expanding financial services environment.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FIN 6416 Credit Hours: 3 Advanced Financial Management

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.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FIN 6425 Credit Hours: 3 Financial Policy

A case study approach to financial policy and strategy with emphasis on the firm's major financial decisions.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FIN 6455 Credit Hours: 3 Financial Modeling and Analytics

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.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FIN 6466 Credit Hours: 2 Financial Analysis

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.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FIN 6537 Credit Hours: 3 Financial Options & Futures

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.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FIN 6605 Credit Hours: 3 International Financial Management

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.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FIN 6906 Credit Hours: 1-19 Independent Study

Students must have a contract with an instructor.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FIN 6934 Credit Hours: 1-4 Selected Topics in Finance

Depending upon the scope and magnitude of the work required. Includes special lecture series.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FIN 7817 Credit Hours: 3 Financial Markets

The study of advanced theoretical and empirical works in finance primarily relating to financial institutions and markets.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FIN 7935 Credit Hours: 3 Finance Research Seminar

Theoretical and/or empirical research on finance related problems. This course will require research papers to be written and presented. It is designed to aid the student in developing a thesis and the research methodology necessary for the doctoral dissertation.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance



FIN 7980 Credit Hours: 2-19

Dissertation

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

FLE 5291 Credit Hours: 3

Technology in the Foreign Language Classroom

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.

USF | College of Education I

FLE 5331 Credit Hours: 3

Methods of Teaching Foreign Language and ESOL in the Secondary School

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.

USF | College of Education I

FLE 5366 Credit Hours: 3

ESOL Education in Content Areas

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.

USF | College of Education I

FLE 5946 Credit Hours: 3

Practicum in Foreign Language/ESOL Teaching

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.

USF | College of Education I

FLE 6639 Credit Hours: 3

Second Language Reading and Literacy

Explores theoretical issues in L2 language and literacy learning from a sociocultural perspective and covers seminal perspectives on L2 language development.

USF | College of Education I

FLE 6829 Credit Hours: 1-4

Graduate Instruction Methods

Special course to be used primarily for the training of graduate teaching assistants.

USF | College of Education I

FLE 6932 Credit Hours: 3

Selected Topics in Second Language Acquisition

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

USF | College of Education I

FLE 7367 Credit Hours: 3

Sociocultural Theory in Second Language Acquisition

1. Examines the theoretical contributions of Vygotskian theory and explores the development of sociocultural theory based on Vygotsky and extending to contemporary post-Vygotskian theories and practices in the field of SLA.

USF | College of Education I

FLE 7939 Credit Hours: 3

Advanced Seminar in Foreign Language Education

Advanced readings and discussion of theories, perspectives and issues in foreign/second language education from K-20, including examination of current practices, action research, accreditation, certification, teacher development, and assessment in the field.

USF | College of Education I

FOW 6805 Credit Hours: 1

Bibliography

Research methods. Includes familiarity with major journals and bibliographies, with a practicum.

USF | College of Arts and Sciences | World Languages

FRE 5566 Credit Hours: 3

Contemporary France

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.

USF | College of Arts and Sciences | World Languages

FRE 6971 Credit Hours: 2-19

Thesis: Master's

USF | College of Arts and Sciences | World Languages

FRW 5226 Credit Hours: 3

20th Century Poetry and Theatre



Valery, Claudel, Anouilh, Motherland, Sartre, Ionesco.

USF | College of Arts and Sciences | World Languages

FRW 5314 Credit Hours: 3

Classical Drama

Corneille, Moliere, and Racine.

USF | College of Arts and Sciences | World Languages

FRW 5425 Credit Hours: 3

Literature of the Renaissance

A study of Renaissance French humanism including Rabelais, Montaigne, and Pleiade poets.

USF | College of Arts and Sciences | World Languages

FRW 5535 Credit Hours: 3

Romanticism and Early Realism

A study of the romantic and early realistic movements with emphasis on Lamartine, Vigny, Musset, Hugo, and Balzac.

USF | College of Arts and Sciences | World Languages

FRW 5745 Credit Hours: 3

French Literature of Quebec

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.

USF | College of Arts and Sciences | World Languages

FRW 5829 Credit Hours: 3

An Introduction to Modern French Literary Criticism

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.

USF | College of Arts and Sciences | World Languages

FRW 6405 Credit Hours: 3

Old French

An introduction to the Old French language and literature. Readings from representative texts.

USF | College of Arts and Sciences | World Languages

GEA 6215 Credit Hours: 3

Seminar in North American Geography

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.

USF | College of Arts and Sciences | School of Geosciences

GEA 6504 Credit Hours: 3

Seminar in European Geography

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.

USF | College of Arts and Sciences | School of Geosciences

GEB 6118 Credit Hours: 3

Business Enterprise

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.

USF | Muma College of Business |

GEB 6224 Credit Hours: 3

Improvisation in Business Organizations

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.

USF | Muma College of Business |

GEB 6228 Credit Hours: 3

Management Through Constructive Persuasion

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.

USF | Muma College of Business |

GEB 6265 Credit Hours: 3

Advanced Facilitation

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.

USF | Muma College of Business |

GEB 6445 Credit Hours: 3

Social, Ethical, Legal Systems

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.



USF | Muma College of Business |

GEB 6458 Credit Hours: 3
Managing Global Sustainability

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.

USF | Muma College of Business |

GEB 6865 Credit Hours: 3
Business Problems Analysis

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.

USF | Muma College of Business |

GEB 6896 Credit Hours: 3
Integrated Business Applications II

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.

USF | Muma College of Business |

GEB 6930 Credit Hours: 1-3
Selected Topics

The content and organization of this course will vary depending on student demand and faculty interest.

USF | Muma College of Business |

GEB 7980 Credit Hours: 1-8
Dissertation

Research and writing of a dissertation on a business topic.

USF | Muma College of Business |

GEB 7982 Credit Hours: 3
Research and Writing Skills for Doctoral Students

A research course for executive students on searching and citing research literature, preparing submissions for publication and assessing the suitability of publication outlets. The course emphasizes the effective use of electronic library resources.

USF | Muma College of Business |

GEO 6113 Credit Hours: 3
Qualitative Research Methods

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.

USF | College of Arts and Sciences | School of Geosciences

GEO 6116 Credit Hours: 3
Perspectives on Environmental Thought

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.

USF | College of Arts and Sciences | School of Geosciences

GEO 6166 Credit Hours: 3
Multivariate Statistical Analysis

Examination of advanced statistical approaches used by geographers. Descriptive, spatial and inferential statistics and multi-variate analysis are highlighted.

USF | College of Arts and Sciences | School of Geosciences

GEO 6215 Credit Hours: 3
Geomorphology Seminar

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.

USF | College of Arts and Sciences | School of Geosciences

GEO 6255 Credit Hours: 3
Weather, Climate, and Society

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.

USF | College of Arts and Sciences | School of Geosciences

GEO 6286 Credit Hours: 3
Advances in Water Resources

Water resources policies are viewed from theoretical and practical perspectives focusing on management strategies in different physical and human environments.

USF | College of Arts and Sciences | School of Geosciences

GEO 6345 Credit Hours: 3
Technological Hazards and Environmental Justice

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.

USF | College of Arts and Sciences | School of Geosciences



GEO 6428 Credit Hours: 3

Seminar in Advanced Human Geography

Analytic study of a problem selected from aspects of the human landscape (urban, political, economic, population, settlement).

USF | College of Arts and Sciences | School of Geosciences

GEO 6545 Credit Hours: 3

Economic Geography Seminar

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.

USF | College of Arts and Sciences | School of Geosciences

GEO 6627 Credit Hours: 3

Site Feasibility Analysis

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.

USF | College of Arts and Sciences | School of Geosciences

GEO 6908 Credit Hours: 1-19

Independent Study

Independent study in which students must have a contract with an instructor.

USF | College of Arts and Sciences | School of Geosciences

GEO 6944 Credit Hours: 3

Internship in Geography

The internship in Geography is designed to provide students the opportunity to work in an appropriate governmental agency to gain practical field experience.

USF | College of Arts and Sciences | School of Geosciences

GEO 6970 Credit Hours: 3

Geographic Research Design

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.

USF | College of Arts and Sciences | School of Geosciences

GEO 7021 Credit Hours: 3

Doctoral Dissertation Preparation

This course will assist students in developing dissertation topics, to think creatively about their topics, and to draft a dissertation proposal and a dissertation outline.

USF | College of Arts and Sciences | School of Geosciences

GEO 7938 Credit Hours: 3

Doctoral Professional Development in Geosciences

This seminar prepares doctoral students for potential careers in academia: (1) choosing a career path in academia, (2) setting goals to achieve the desired type of faculty position by graduation, and (3) preparing for the job application process.

USF | College of Arts and Sciences | School of Geosciences

GER 5845 Credit Hours: 3

History of the German Language

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.

USF | College of Arts and Sciences | World Languages

GER 6908 Credit Hours: 1-19

Independent Study

Independent study in which student must have a contract with an instructor.

USF | College of Arts and Sciences | World Languages

GEW 5934 Credit Hours: 1-3

Selected Topics

Study of an author, movement or theme.

USF | College of Arts and Sciences | World Languages

GEY 5501 Credit Hours: 3

Health Care Operations in Long Term Care

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 5620 Credit Hours: 3

Sociological Aspects of Aging

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 5642 Credit Hours: 3

Perspectives on Death and Dying

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.



USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6221 Credit Hours: 3

Ethical and Legal Issues in Aging

A consideration of major ethical and legal issues in aging and their implications for policies, priorities, and services.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6230 Credit Hours: 3

Principles of Health Care Risk Management and Patient Safety

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6325 Credit Hours: 3

Social Policy and Planning for Gerontologists

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6402 Credit Hours: 3

Statistical Methods in Aging Research

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6450 Credit Hours: 3

Gerontological Research and Planning

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6500 Credit Hours: 3

Seminar in Principles of Administration

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6607 Credit Hours: 3

Alzheimer's Disease Management

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6614 Credit Hours: 3

Aging and Mental Disorders

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6617 Credit Hours: 3

Gerontological Counseling Theories and Practice

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6626 Credit Hours: 3

Health, Ethnicity, and Aging

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6643 Credit Hours: 3

End of Life Care for Dementia Patients

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.



USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6901 Credit Hours: 1-4

Directed Reading

A reading program of selected topics under the supervision of a faculty member.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6934 Credit Hours: 3

Special Topics in Gerontology

Courses on topics such as preretirement, mental health, human services organization, and senior center administration.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 6941 Credit Hours: 1-6

Field Placement in Mental Health

A highly structured supervised counseling experience providing mental health services to older adults.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 7404 Credit Hours: 3

Ph.D. Seminar in Grant Writing

This course is designed as a seminar for doctoral students pursuing a research career requiring outside funding for their research. Skills practiced include literature search, preparation of budgets, detail of research methods, and critique of proposals.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 7604 Credit Hours: 3

Biomedical Aging

This course examines biomedical issues of aging, from the genetic to bodily systems levels. Emphasis is on cell structure, diseases of aging, cardiovascular, neurological, metabolic, and immune systems; diet/nutrition. Open to all majors; not repeatable.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 7611 Credit Hours: 3

Ph.D. Seminar in Mental Health

This doctoral seminar focuses on issues of mental health in older adults, including issues like depression, anxiety, and psychopathology. Specific content will vary. Repeatable twice for credit.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 7623 Credit Hours: 3

Social and Health Issues in Aging

This is a doctoral level class that addresses both social and health aspects of aging. Emphasis is on social and family context in aging, health policies, long term care, and racial and ethnic diversity. It is open to all majors and is not repeatable.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 7651 Credit Hours: 3

Ph.D. Seminar in Cognition

This doctoral seminar focuses on issues of cognition in older adults, including learning and memory, and also addresses change and chronic conditions that affect them. Specific content will be different each time. Repeatable twice for credit.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 7911 Credit Hours: 1-19

Directed Research in Aging Studies

Research on selected topics in aging studies under the direct supervision of a member of the graduate faculty in aging studies.

USF | College of Behavioral and Community Sciences | School of Aging Studies

GEY 7980 Credit Hours: 2-12

Dissertation and Doctoral

USF | College of Behavioral and Community Sciences | School of Aging Studies

GIS 5049 Credit Hours: 3

GIS for Non-Majors

An introduction to the concepts underlying digital thematic mapping and geographical information systems (GIS) for non-geography majors and non-geography graduate students.

USF | College of Arts and Sciences | School of Geosciences

GIS 6038C Credit Hours: 3

Remote Sensing

Study of digital image processing techniques. Topics include filtering techniques, geometric and radiometric normalization, and classification algorithms with emphasis on developing.

USF | College of Arts and Sciences | School of Geosciences

GIS 6100 Credit Hours: 3

Advanced Geographic Information Systems

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.

USF | College of Arts and Sciences | School of Geosciences

GIS 6112 Credit Hours: 3

Spatial Database Development

Development and management of spatial data for use in a Geographic Information System (GIS), including creating, editing, modifying and validating spatial data.

USF | College of Arts and Sciences | School of Geosciences

GIS 6307 Credit Hours: 3

GIS Seminar

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.

USF | College of Arts and Sciences | School of Geosciences

GLY 5786 Credit Hours: 2

Geological Field Excursion

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.

USF | College of Arts and Sciences | School of Geosciences

GLY 5932 Credit Hours: 1-4

Selected Topics in Geology

Each topic is a course under the direction of a faculty member. All areas of geology included.

USF | College of Arts and Sciences | School of Geosciences

GLY 6246 Credit Hours: 3

General Geochemistry

Age, formation and evolution of the earth with application of basic chemical concepts and processes that govern the distribution of elements in geologic environments.

USF | College of Arts and Sciences | School of Geosciences

GLY 6285C Credit Hours: 3

Analytical Techniques in Geology

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.

USF | College of Arts and Sciences | School of Geosciences

GLY 6393C Credit Hours: 3

Modeling of Volcanic Processes

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.

USF | College of Arts and Sciences | School of Geosciences

GLY 6475C Credit Hours: 4

Principles of Applied Geophysics

Elementary treatment of gravimetric, magnetic, electric, and seismic geophysical techniques as applied to resource exploration, site investigation, and mineral deposits. Lec/Lab. Field trips.

USF | College of Arts and Sciences | School of Geosciences

GLY 6557 Credit Hours: 3

Facies Models

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.

USF | College of Arts and Sciences | School of Geosciences

GLY 6575C Credit Hours: 3

Coastal Sedimentation

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.

USF | College of Arts and Sciences | School of Geosciences

GLY 6824 Credit Hours: 3

Ecohydrology

This course covers hydrological processes along the atmosphere-plant-soil continuum and the ways in which hydrological processes control ecological structure and function.

USF | College of Arts and Sciences | School of Geosciences

GLY 6828 Credit Hours: 3

Ground-Water Geochemistry

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.

USF | College of Arts and Sciences | School of Geosciences

GLY 6905 Credit Hours: 1-19

Independent Study

Independent study in which student must have a contract with an instructor.

USF | College of Arts and Sciences | School of Geosciences



GLY 6971 Credit Hours: 2-19

Thesis: Master's

USF | College of Arts and Sciences | School of Geosciences

GLY 7980 Credit Hours: 2-19

Dissertation: Doctoral

USF | College of Arts and Sciences | School of Geosciences

GMS 6001 Credit Hours: 4-8

Foundation in Biomedical Sciences

A multidisciplinary course in the cellular, molecular, biochemical, and genetic basis of biomedical sciences, designed as a comprehensive first semester course for most incoming biomedical sciences graduate students.

USF | Morsani College of Medicine | Medical Sciences

GMS 6004 Credit Hours: 1-8

Introduction to Medical Sciences

This course is based on medical cases that students explore in small groups that are faculty facilitated. Each case is concluded with a series of traditional didactic lectures relevant to the case. A learning specialist will provide learning strategies.

USF | Morsani College of Medicine | Medical Sciences

GMS 6012 Credit Hours: 3

Basic Medical Genetics

The course examines fundamental aspects of genetics critical to understanding the mechanisms and inheritance patterns of genetic diseases relevant to human health including clinical, biochemical and molecular genetics, cytogenetics and genetic counseling.

USF | Morsani College of Medicine | Medical Sciences

GMS 6053 Credit Hours: 3

Cancer Prevention

Provide a broad understanding of the various sources of cancer and the array of potential prevention modalities and therapeutics.

USF | Morsani College of Medicine | Medical Sciences

GMS 6055 Credit Hours: 3

Case Studies in Cancer Therapy

This course provides an in-depth discussion of selected patient case studies in integrative oncology and is designed to assist integration of the study of the basic principles and applications of integrative oncology to patient care.

USF | Morsani College of Medicine | Medical Sciences

GMS 6057 Credit Hours: 3

Integrative Cancer Therapies

This course is designed to focus on exploring integrative cancer therapies for a variety of specific forms of cancer together with the application of novel therapeutic regimens.

USF | Morsani College of Medicine | Medical Sciences

GMS 6066 Credit Hours: 11

Molecular Medicine

A comprehensive introduction to molecular medicine with an emphasis on the integration of those aspects of biochemistry, cell biology and genetics that have immediate relevance to the understanding of various disease processes and their treatment.

USF | Morsani College of Medicine | Medical Sciences

GMS 6069 Credit Hours: 3

Translational Biotechnology

The course teaches how the results of biological, biomedical and bioengineering research can be translated into applicable procedures and products and enhances the information via site visits to local non-profit and for-profit biotech institutions.

USF | Morsani College of Medicine | Medical Sciences

GMS 6092 Credit Hours: 3

Principles of Intellectual Property

This course focuses on the principles of intellectual property as related to protection of new technologies/products and will examine strategies using the legal structure of patents, copyrights, trademarks, and trade secrets. No restrictions or repeats.

USF | Morsani College of Medicine | Medical Sciences

GMS 6094 Credit Hours: 3

Experimental Design and Analysis

A focused course designed to introduce students to the scientific method, experimental designs, approaches, and analyses that are essential to the modern biomedical research scientist.

USF | Morsani College of Medicine | Medical Sciences

GMS 6101 Credit Hours: 3-4

Molecular and Cellular Immunology

Lecture, directed literature readings, and discussion form the basis to instruct graduate and advanced undergraduate students in development, function, regulation, pathobiology, and conduct of research in medically relevant immunity.

USF | Morsani College of Medicine | Medical Sciences

GMS 6104 Credit Hours: 3

Cellular Immunology

Current concepts of cellular interactions in the immune response.

USF | Morsani College of Medicine | Medical Sciences



GMS 6110 Credit Hours: 3
Microbial Pathogenesis and Host-Parasite Interactions

This course examines the basic concepts in microbial pathogenesis using select medically important microorganisms as examples. It studies the reciprocal interactions that take place between human host and microbial pathogen.

USF | Morsani College of Medicine | Medical Sciences

GMS 6114 Credit Hours: 2
Vaccines and Applied Immunology

Lectures and discussion concerned with the immunological aspects of vaccine development against infectious agents and cancer including discussions on mechanisms, experimental approaches and development problems.

USF | Morsani College of Medicine | Medical Sciences

GMS 6130 Credit Hours: 2
Molecular Biology of Tumor Viruses

This course is focused on tumor viruses which are involved in the pathogenesis of cancer and utilized in gene therapy as vectors. The lectures will cover current concepts of the field, specific viral genes and gene products involved in cancer, and molecular mechanisms by which viruses transform normal cells to cancer cells.

USF | Morsani College of Medicine | Medical Sciences

GMS 6142 Credit Hours: 3
Cancer Immunology

Provide a broad understanding of the role of immunity in cancer biology and the potential applications of immunological methods in cancer therapies.

USF | Morsani College of Medicine | Medical Sciences

GMS 6183 Credit Hours: 3
Clinical Research Methods

The course will provide a foundation for healthcare providers to pursue investigator-initiated clinical research. It is not restricted to majors or nonmajors and cannot be repeated for credit.

USF | Morsani College of Medicine | Medical Sciences

GMS 6200C Credit Hours: 5
Biochemistry, Molecular and Cellular Biology

The overall objectives of GMS 6200 are to provide students with a solid foundation of biochemical principles and a fundamental understanding of structures and processes of living systems at the molecular and cellular levels.

USF | Morsani College of Medicine | Medical Sciences

GMS 6240 Credit Hours: 3
Metabolic Approaches to Pediatrics

Provides participants with a detailed understanding of the important linkage between nutrition, metabolism and the clinical management of both mothers and pediatric patients.

USF | Morsani College of Medicine | Medical Sciences

GMS 6323 Credit Hours: 3
Pathology Case Studies 1

This course emphasizes principles of pathology, including cell injury, inflammation, immunopathology, neoplasia and congenital and environmental pathology, by focusing on the anatomical, pathophysiological and pathologies in the musculoskeletal system.

USF | Morsani College of Medicine | Medical Sciences

GMS 6325 Credit Hours: 2
Pathology Case Studies 3

This course emphasizes the principles of pathology, including cell injury, inflammation, immunopathology, neoplasia and congenital and environmental pathology, by focusing on the anatomical, pathophysiological and pathologies in the neurological system.

USF | Morsani College of Medicine | Medical Sciences

GMS 6331 Credit Hours: 3
Stem Cell Biology

Designed to give a broad understanding of the biology of stem cells and their potential role in the treatment of various pathological conditions.

USF | Morsani College of Medicine | Medical Sciences

GMS 6340 Credit Hours: 3
Laboratory Fundamentals and Adjunct Cancer Therapies

This course presents an extensive review of clinical laboratory fundamentals as part of the disease diagnosis process together with discussions of the therapies designed to reverse adverse cellular functions and adjunct therapies for cancer management.

USF | Morsani College of Medicine | Medical Sciences

GMS 6380 Credit Hours: 3
Medicine and Gender

This course covers biological differences between men and women in the central nervous system, cardiovascular system, and the immune system. Women's health topics include gestational diabetes, obesity and breast feeding and men's reproductive health.

USF | Morsani College of Medicine | Medical Sciences



GMS 6403 Credit Hours: 4

Endocrine Mechanisms

An examination of current concepts of endocrine and neuroendocrine systems. Emphasis will be placed on control at the organismal and organ system levels.

USF | Morsani College of Medicine | Medical Sciences

GMS 6409 Credit Hours: 3

Integrated Cardiovascular Biology

Designed to give a broad understanding of the biology of the cardiovascular system and the various pathophysiological changes that cause chronic heart disease together with discussion of appropriate therapies.

USF | Morsani College of Medicine | Medical Sciences

GMS 6411 Credit Hours: 3

Metabolic Cardiology

Examines the interrelationship between metabolic dysregulation and cardiovascular disease focusing on the interrelationship between diabetes and increased risk for cardiovascular events.

USF | Morsani College of Medicine | Medical Sciences

GMS 6419 Credit Hours: 3-7

Excretory, Endocrine and Reproductive Systems

Emphasis on aspects of the gastrointestinal, endocrine, renal and reproductive systems that have immediate relevance for clinical medicine. Restricted to MSMS students in the IMS concentration.

USF | Morsani College of Medicine | Medical Sciences

GMS 6433 Credit Hours: 4

Membrane Physiology

Advanced readings and discussion of the molecular physiology of excitable membranes.

USF | Morsani College of Medicine | Medical Sciences

GMS 6441 Credit Hours: 3

Clinical Approaches to Endocrinology

The course focuses on the function of the human endocrine system and examines factors influencing hormone function and physiological hormone balance. Clinical approaches to achieve hormone homeostasis are emphasized including hormone replacement therapy.

USF | Morsani College of Medicine | Medical Sciences

GMS 6443 Credit Hours: 3

Promoting Organizational Wellness

Designed to provide an introduction to methods to establish integrative weight loss, obesity and wellness programs at various types of institutions as an integral and effective support

component for long term patient compliance in weight management.

USF | Morsani College of Medicine | Medical Sciences

GMS 6445 Credit Hours: 3

Integrative Lifestyle Medicine

This course explores the process of patient counseling in lifestyle medicine with topics that include nutritional depletions, the concept of foods as nutrients, vitamins, minerals and herbal therapies and their importance in patient treatments.

USF | Morsani College of Medicine | Medical Sciences

GMS 6447 Credit Hours: 3

Advanced Male Endocrinology

The course focuses on advanced endocrinology in the male patient including male sexuality, late-life hypogonadism, benign prostatic hyperplasia, lower urinary tract symptoms, prostate cancer and hormonal therapies and nutrition and the aging male.

USF | Morsani College of Medicine | Medical Sciences

GMS 6449 Credit Hours: 3

Complementary and Alternative Medicine

This course is designed to explore, compare, and evaluate various alternative practices and philosophies to personal health management.

USF | Morsani College of Medicine | Medical Sciences

GMS 6452 Credit Hours: 3

Clinical Nutrition

A course that is designed to provide a thorough foundation in all aspects of human nutrition and which emphasizes the close relationship between nutrition and various chronic diseases and includes obesity, weight management and life-cycle nutrition.

USF | Morsani College of Medicine | Medical Sciences

GMS 6454 Credit Hours: 3

Functional Medicine and Infectious Disease

This course covers advanced human nutrition together with the utilization of various botanical supplements that have been applied to metabolic and nutritional medicine. A functional approach to infectious diseases will also be explored.

USF | Morsani College of Medicine | Medical Sciences

GMS 6456 Credit Hours: 3

Integrated Bariatrics

Integrated Bariatrics is designed to provide a detailed understanding of the interplay between the factors that influence weight gain weight loss and obesity.

USF | Morsani College of Medicine | Medical Sciences



GMS 6458 Credit Hours: 3

Metabolic Triads

Detailed understanding of the important aspects of the various organ and metabolic pathway interrelationships together with various disturbances that can result in a wide variety of pathophysiological diseases.

USF | Morsani College of Medicine | Medical Sciences

GMS 6477 Credit Hours: 3-6

Cardiovascular and Pulmonary Systems

Examines fundamental principles governing the structure and function of the cardiovascular and pulmonary systems including the circulating blood.

USF | Morsani College of Medicine | Medical Sciences

GMS 6482 Credit Hours: 3

Cardiovascular Health

The course is designed to provide a detailed understanding of the important aspects of maintaining the integrity of cardiovascular function together with developing appropriate therapies to effectively treat various forms of cardiovascular disease.

USF | Morsani College of Medicine | Medical Sciences

GMS 6511 Credit Hours: 1

Current Literature in Pharmacology

This course is designed to help students develop skills in the analysis of pharmacological data through discussions of scientific literature and written critiques of departmental seminars. In addition, students will gain knowledge of ongoing research in selected areas of pharmacological interest.

USF | Morsani College of Medicine | Medical Sciences

GMS 6513 Credit Hours: 3

Principles of Pharmacology and Therapeutics

This course is designed to familiarize students with basic principles of pharmacology and therapeutics. Students will be exposed to classical concepts of pharmacology such as drug-receptor interactions as well as modern techniques such as gene therapy.

USF | Morsani College of Medicine | Medical Sciences

GMS 6541 Credit Hours: 4

Pharmacology for Health Professionals

The basic principles of pharmacology (pharmacodynamics & pharmacokinetics) will be presented along with major drug classes (analgesics, antibiotics, cardiovascular drugs, central nervous system drugs).

USF | Morsani College of Medicine | Medical Sciences

GMS 6550 Credit Hours: 3

Introduction to IV Therapies

Provides students with a basic understanding of the clinical implications of the application of intravenous therapy to treat various physiological conditions and for advanced nutrition.

USF | Morsani College of Medicine | Medical Sciences

GMS 6604 Credit Hours: 3

Human Structure and Function

This course focuses on an integrated approach to the analysis of human structural and functional development and integrity.

USF | Morsani College of Medicine | Medical Sciences

GMS 6608 Credit Hours: 2

Pathology Case Studies 5

This course emphasizes the principles of pathology and histology by focusing on the cellular morphology anatomical and the histological organization in pathologies of the endocrine system.

USF | Morsani College of Medicine | Medical Sciences

GMS 6610 Credit Hours: 3-6

Advanced Neuroanatomy

This lecture and laboratory course deals with the structure and function of the human nervous system. The course is organized using both regional and systemic approaches.

USF | Morsani College of Medicine | Medical Sciences

GMS 6612 Credit Hours: 1-3

Supervised Teaching in Human Anatomy

This course deals with the philosophy and mechanics of teaching. The course also involves supervised, practical experience in the various aspects of teaching in both the classroom and laboratory.

USF | Morsani College of Medicine | Medical Sciences

GMS 6671 Credit Hours: 2

A Brief History of Medical Sciences

This course is composed of five traditional didactic lectures, mini-presentations (10-15 min) by students on landmark advances in Anatomy and Pathology, and a submission of a brief paper based on these presentations.

USF | Morsani College of Medicine | Medical Sciences

GMS 6706 Credit Hours: 3

Basic Medical Neuroscience

The course focuses on the function of the human nervous system and examines nerve cell biology and how cells are organized into functional systems. Structure/function relationships are emphasized including examples of abnormal cell function in disease.

USF | Morsani College of Medicine | Medical Sciences



GMS 6708 Credit Hours: 3

Neuroimmunology

Designed to provide an in-depth review of topics related to immunology in the nervous system.

USF | Morsani College of Medicine | Medical Sciences

GMS 6714 Credit Hours: 3

Nutrition Counseling

Focuses on the important linkage between lifestyle modification and appropriate nutritional activities to support optimum health and explores various motivational approaches to effect nutritional change as part of lifestyle change.

USF | Morsani College of Medicine | Medical Sciences

GMS 6716 Credit Hours: 3

Neuropsychiatry

Focuses on an introduction to the field of neuropsychiatry and its role in the evaluation and treatment of various mental disorders associated with the mind and nervous system.

USF | Morsani College of Medicine | Medical Sciences

GMS 6751 Credit Hours: 3

Integrated Clinical Neurobiology

The course introduces the principles of neurology and the role of neurotransmitters in cellular function and communication between cell types and focuses on gastrointestinal health in relationship to the immune system and neurotransmitter function.

USF | Morsani College of Medicine | Medical Sciences

GMS 6753 Credit Hours: 3

The Basics of Brain Fitness and Memory Management

Provides an in-depth discussion of the central roles that brain fitness and memory management contribute to the function of cognition and the various therapies applicable to treat cognitive decline.

USF | Morsani College of Medicine | Medical Sciences

GMS 6755 Credit Hours: 3

How the Brain Learns

This course is designed to provide participants with a detailed understanding of the important aspects of brain development and metabolism.

USF | Morsani College of Medicine | Medical Sciences

GMS 6770 Credit Hours: 3

A Metabolic Approach to Pain Management

Provides an in-depth discussion of the central role that pain management contributes to the treatment of the chronic pain

patient which has been identified as one of the top two reasons patients seek medical care.

USF | Morsani College of Medicine | Medical Sciences

GMS 6772 Credit Hours: 3

The Spinal Cord: Development, Pathology and Therapy

The course is a series of lectures/discussions by Department and College of Medicine faculty on spinal cord anatomy, normal development, physiology and pathology. Current and future treatments for spinal cord injuries and diseases will also be discussed.

USF | Morsani College of Medicine | Medical Sciences

GMS 6807 Credit Hours: 3

Epidemiology of Women's Health

The organization of this course reflects the concepts of life-course epidemiology in which health behaviors established at young ages have a significant impact on health status and quality of life in senior years.

USF | Morsani College of Medicine | Medical Sciences

GMS 6841 Credit Hours: 1

Fundamentals of Translational Research

Introduction to the interface between clinical and basic research. How to include basic research hypotheses in the design of clinical studies to advance knowledge in applying basic/clinical research to patient care. Instructor permission. Not repeatable.

USF | Morsani College of Medicine | Medical Sciences

GMS 6844 Credit Hours: 1

Principles of Patient-Oriented Research

Introduction to the Scholars in Patient-Oriented Research (SPOR) Program. Assists in identifying important clinical and translational research questions, approaches, sources of support and regulatory issues. Instructor permission. Not repeatable.

USF | Morsani College of Medicine | Medical Sciences

GMS 6870 Credit Hours: 3

Medical Ethics and Humanities: Tools and Foundations

Terminology, historical perspectives, ethical principles and dilemmas, and case studies. Examination of aspects of the human journey and various voices or perspectives through fiction, essays, history, art, poetry, theater, and film.

USF | Morsani College of Medicine | Medical Sciences

GMS 6873 Credit Hours: 3

Biomedical Ethics



This course will focus on biomedical ethical issues in business, research, clinical care, and technology development in the life sciences and healthcare industries.

USF | Morsani College of Medicine | Medical Sciences

GMS 6890 Credit Hours: 3

Medicine and the Arts

Study opportunities in metropolitan cities in which students engage in one week of intensive study. (Medical Centers, Museums, Theatre)

USF | Morsani College of Medicine | Medical Sciences

GMS 6902 Credit Hours: 3

Bioethics and Medical Humanities Independent Study

Develop with faculty advisor an individual project with the goal of in-depth study in the focus area.

USF | Morsani College of Medicine | Medical Sciences

GMS 6906 Credit Hours: 1

Grantsmanship II

This course is the second in a three-course series to complete instruction in the skills and techniques necessary for writing successful NIH grant proposals whose primary focus is patient-oriented/translational career development or research grants.

USF | Morsani College of Medicine | Medical Sciences

GMS 6921 Credit Hours: 1

Building a Patient-Oriented Research Center

Introduction to the important characteristics of academic patient-oriented faculty in a colloquium format to encourage interactions and sharing of information between faculty and students. 2 semesters, 1 credit each semester=2 cr. Instructor permission.

USF | Morsani College of Medicine | Medical Sciences

GMS 6940 Credit Hours: 1-3

Supervised Teaching in Molecular Medicine

To instruct student in teaching methods that are employed in training of medical students; acquaint student with evaluation procedures used to measure academic progress of medical students.

USF | Morsani College of Medicine | Medical Sciences

GMS 6942 Credit Hours: 1-3

Laboratory Rotations in Biomedical Sciences

This course is designed to introduce the early-career Ph.D. student to the types of questions and techniques involved in biomedical research.

USF | Morsani College of Medicine | Medical Sciences

GMS 6950 Credit Hours: 2

Biomedical Science Communication and Instructional Skills

This course will train MS/Ph.D. students to teach & communicate biomedical sciences while pursuing academic careers in universities and in medical/allied health schools, where teaching basic biomedical sciences is required.

USF | Morsani College of Medicine | Medical Sciences

GMS 7930 Credit Hours: 1-3

Selected Topics

USF | Morsani College of Medicine | Medical Sciences

GMS 7980 Credit Hours: 2-19

Dissertation: Doctoral

USF | Morsani College of Medicine | Medical Sciences

GRW 5934 Credit Hours: 1-4

Selected Topics

Study of an author, movement or theme.

USF | College of Arts and Sciences | World Languages

HIM 6018 Credit Hours: 2

e-Healthcare Ethics

Examines selected ethical considerations that are significant components of health informatics and electronic medicine and often represent important considerations to be addressed during the delivery of healthcare using e-medicine models.

USF | Morsani College of Medicine | Medical Sciences

HIM 6118 Credit Hours: 3

Introduction to Health Informatics

Introduction to Health Informatics is designed to provide a discussion of the various facets of health informatics of interest to the healthcare professional.

USF | Morsani College of Medicine | Medical Sciences

HIM 6141 Credit Hours: 3

Introduction to Health Informatics

Introduction to Health Informatics is designed to provide a discussion of the various facets of health informatics of interest to the healthcare professional.

USF | Morsani College of Medicine | Medical Sciences

HIM 6320 Credit Hours: 3

Managerial Communication

Managerial Communication focuses on the centrality of communication to the delivery and management of healthcare and explores challenges faced by the diverse community of healthcare professions and their interactions.



USF | Morsani College of Medicine | Medical Sciences

HIM 6477 Credit Hours: 3

Medical Terminology for Health Informatics Professionals

Medical Terminology for Healthcare Informatics Professionals is designed to provide fundamental understanding of medical terms (words) used in healthcare environments by Health Informaticians.

USF | Morsani College of Medicine | Medical Sciences

HIM 6515 Credit Hours: 3

Leadership for Health Professionals

This course is designed to introduce the various principles of leadership that apply to the activities of health professionals in the conduct and progression of their professional activities.

USF | Morsani College of Medicine | Medical Sciences

HIM 6623 Credit Hours: 3

Statistics for Healthcare Analytics

The course provides an in depth discussion of statistical analysis topics applicable to healthcare data. It is designed to assist graduate students apply most of the topics covered in real life datasets.

USF | Morsani College of Medicine | Medical Sciences

HIM 6629 Credit Hours: 3

Applied Healthcare Analytics

This course provides an in depth examination of advanced level regression models applied in healthcare data. Topics include mixed models, propensity scores, instrumental variables, and time-to-event analysis.

USF | Morsani College of Medicine | Medical Sciences

HIM 6664 Credit Hours: 3

Healthcare Project Management

Healthcare Project Management is designed to provide a discussion of the various facets of initiating, planning, executing, monitoring, closing, and controlling projects in healthcare environments.

USF | Morsani College of Medicine | Medical Sciences

HIM 6671 Credit Hours: 3

Advanced Healthcare Analytics Applications

This is a project-oriented course in analytics. It emphasizes techniques necessary for prediction of health outcomes.

USF | Morsani College of Medicine | Medical Sciences

HIM 6840 Credit Hours: 3

Case Studies in Health Information Management

This course provides an in-depth discussion of selected case studies in health informatics management and is designed to assist integration of the study of the basic principles and applications of health informatics.

USF | Morsani College of Medicine | Medical Sciences

HIM 6908 Credit Hours: 1-3

Health Informatics Independent Study

Develop, in conjunction with a faculty advisor, an individual project with the goal of completing an in-depth study of a topic directly relevant to the student's program of study in health informatics.

USF | Morsani College of Medicine | Medical Sciences

HIM 6943 Credit Hours: 1-3

Health Informatics Internship

The course involves the successful completion of an internship experience in an institution that provides insight into one or more aspects of health informatics.

USF | Morsani College of Medicine | Medical Sciences

HIS 5116 Credit Hours: 3

Spanish Paleography II

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.

USF | College of Arts and Sciences | History

HIS 6163 Credit Hours: 3

Beyond the Book: Telling Local Histories through New Media

Students learn the skills needed to gather, select, and curate historical materials into a digital format that is meaningful and informative to non-specialist audiences.

USF | College of Arts and Sciences | History

HIS 6914 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | History

HIS 6935 Credit Hours: 3

Graduate Reading Seminar in History

Introduce Graduate Students to a wide body of scholarship surrounding the topic of the course. Course topics and titles will vary.

USF | College of Arts and Sciences | History



HIS 6939 Credit Hours: 3

Seminar in History

Research in selected topics within the fields selected by the instructor.

USF | College of Arts and Sciences | History

HIS 7289 Credit Hours: 3

Ph.D. Seminar in Comparative Studies

Organized around a varying theme or methodology (sustainability, globalization, identity, e.g.), this course examines how historians, sociologists and political scientists employed the methodology throughout various regions and periods.

USF | College of Arts and Sciences | History

HIS 7938 Credit Hours: 3

Ph.D. Capstone Seminar

Synthesize the training that students have received as Historians and gain a better understanding of the research process as they compose a dissertation prospectus and prepare to write the dissertation.

USF | College of Arts and Sciences | History

HIS 7980 Credit Hours: 1-9

Ph.D. Dissertation

Dissertation writing hours for advanced Ph.D. students in the final year of the program.

USF | College of Arts and Sciences | History

HMG 6257 Credit Hours: 3

Graduate Seminar in Hospitality Management

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.

USF | Muma College of Business | School of Hospitality and Tourism Management

HMG 6267 Credit Hours: 3

Restaurant and Foodservice Management

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.

USF | Muma College of Business | School of Hospitality and Tourism Management

HMG 6335 Credit Hours: 3

Graduate Seminar in Club Management

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.

USF | Muma College of Business | School of Hospitality and Tourism Management

HMG 6467 Credit Hours: 3

Managerial Accounting and Finance for the Hospitality Industry

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.

USF | Muma College of Business | School of Hospitality and Tourism Management

HMG 6507 Credit Hours: 3

Hospitality & Tourism Information Systems & Technology

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.

USF | Muma College of Business | School of Hospitality and Tourism Management

HMG 6586 Credit Hours: 3

Research Methods & Statistics for Hospitality

The objective of this course is to learn development of hospitality research projects and application of statistical data analysis tools.

USF | Muma College of Business | School of Hospitality and Tourism Management

HMG 6606 Credit Hours: 3

Hospitality Law & Hotel Management Contracts

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.

USF | Muma College of Business | School of Hospitality and Tourism Management

HMG 6908 Credit Hours: 1-6

Independent Study

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.

USF | Muma College of Business | School of Hospitality and Tourism Management



HMG 6938 Credit Hours: 1-6

Special Topics in Hospitality

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.

USF | Muma College of Business | School of Hospitality and Tourism Management

HMG 6972 Credit Hours: 1-6

Masters Thesis

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.

USF | Muma College of Business | School of Hospitality and Tourism Management

HSC 6055 Credit Hours: 3

Survival Analysis

A study of statistical methods for analyzing censored life time data with applications in health sciences.

USF | College of Public Health | Dean's Office

HSC 6261 Credit Hours: 2

Teaching Essentials

Focuses on the fundamental concepts of teaching and learning within a Health Professions Education context. It seeks to provide students research-based models of teaching in an environment designed to allow practice, feedback, and achievement.

USF | Taneja College of Pharmacy | Pharmacy

HSC 6552 Credit Hours: 3

Community-Based Prevention in Behavioral Health

This web-based course is a graduate course in Behavioral Health within the Department of Community and Family Health. It is designed to provide the graduate student with an overview and understanding of the significant issues and trends in community & family behavioral health with an emphasis on behavioral health promotion and disease prevention. Major areas are: 1) overview of promotion and prevention in the United States; 2) systems delivery; 3) programs and Policies; 4) and selected at-risk populations.

USF | College of Public Health | Dean's Office

HSC 7268 Credit Hours: 2

Professional Foundations III: Joining the Academy

Prepares the public health doctoral candidate with tools for career building.

USF | College of Public Health | Dean's Office

HUM 6456 Credit Hours: 3

Studies in Latin American Arts and Letters

Analysis of selected Latin American works of art in their cultural context.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUM 6475 Credit Hours: 3

Studies in Contemporary Arts and Letters

Concentration on major artists and recent trends.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUM 6494 Credit Hours: 3

Studies in Medieval Arts and Letters

Studies in medieval philosophies, visual arts, music, literature, and architecture and their interrelationships.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUM 6496 Credit Hours: 3

Studies in Enlightenment Arts and Letters

Studies in painting, sculpture, music, literature, and architecture in relation to philosophical determinism and political absolutism.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUM 6583 Credit Hours: 3

Global Cinema and New Media to 1960

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.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUM 6585 Credit Hours: 3

Film and New Media Auteurs

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).

USF | College of Arts and Sciences | Humanities and Cultural Studies



HUM 6587 Credit Hours: 3

National Cinemas

Course will explore key films, filmmakers, and cinematic techniques and approaches of selected national cinema styles from around the globe.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUM 6801 Credit Hours: 3

Theories and Methods of Cultural Studies

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.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUM 6815 Credit Hours: 3

Research Seminar

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.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUM 6909 Credit Hours: 1-19

Independent Study

Independent study in which student must have a contract with an instructor.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUM 6939 Credit Hours: 1-3

Selected Topics in Humanities

Each topic is a course of study in a subject not covered by a regular course.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUM 6971 Credit Hours: 2-19

Thesis: Masters

In consultation with an advisor, the student plans, organizes, and writes a thesis on a topic in interdisciplinary arts and ideas.

USF | College of Arts and Sciences | Humanities and Cultural Studies

HUN 6804 Credit Hours: 3

Nutrition and Dietetics Research

This course teaches the investigative and analytical methods used in nutrition and dietetics related research. The course

reviews research design, sampling techniques, data collection and processing, and interpretation of the results and ethics.

USF | College of Public Health | Dean's Office

IDH 5975 Credit Hours: 3

Honors Thesis

Advanced Honors Thesis. Repeatable up to 12 hours.

USF | Judy Genshaft Honors College | Dean's Office

IDS 5178 Credit Hours: 3

Problems in Museum Studies

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.

USF | College of The Arts | School of Art and Art History

IDS 5922 Credit Hours: 0

Preparing for College Teaching

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.

USF | College of Graduate Studies | Graduate Studies

IDS 6208 Credit Hours: 3

Renewable Power Portfolio

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.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6215 Credit Hours: 3

Seminar in Global Sustainability

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.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6233 Credit Hours: 3

Concepts and Principles of Sustainability

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.



USF | Patel College of Global Sustainability | Dean's Office

IDS 6235 Credit Hours: 3

Economics and Finance for Sustainability

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.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6237 Credit Hours: 3

Ecotourism and Sustainable Tourism Management for Coastal Habitat and Marine Protection

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.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6239 Credit Hours: 3

Principles of Six Sigma for Sustainability

Application of the principles of Six Sigma and the tools of continuous improvement in developing and implementing sustainability projects and initiatives. Course includes case studies that used Six Sigma and Lean methodologies in the sustainability field.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6245 Credit Hours: 3

Sustainable Water Resource Management: Doing More with Less

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.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6247 Credit Hours: 3

Water Resources Planning

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.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6271 Credit Hours: 3

The Future of Food: Environment, Health and Policy

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.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6275 Credit Hours: 3

Policy for Sustainability

This course explores concepts, principles, and case studies pertaining to sustainability policy.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6280 Credit Hours: 3

Climate Change Adaptation and Mitigation

This course will use an interdisciplinary approach to assess the impacts of climate change, and to develop climate change mitigation and adaptation strategies.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6369 Credit Hours: 1

Strategic Global Negotiations

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.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

IDS 6908 Credit Hours: 1-3

Directed Reading/Directed Independent Study

Individual study by students under the direction of a faculty member. Topics vary and are usually selected on an individual basis.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6935 Credit Hours: 3-6

Capstone Research Project

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.

USF | Patel College of Global Sustainability | Dean's Office

IDS 6940 Credit Hours: 0-6

Cooperative Internship

This is a guided self-development course that provides an opportunity for students to receive credit for their career-related, "real world" work experience.



USF | College of Graduate Studies | Graduate Studies

IDS 6947 Credit Hours: 0-3

Service Learning

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.

USF | College of Graduate Studies | Graduate Studies

IDS 6951 Credit Hours: 3

Sustainability Project

This is the final project for the Master of Arts in Global Sustainability students.

USF | College of Arts and Sciences |

INP 6935 Credit Hours: 3

Topics in Industrial-Organizational Psychology

Courses on topics such as industrial psychology, evaluation of performance in industry, and human factors.

USF | College of Arts and Sciences | Psychology

INR 5012 Credit Hours: 3

Globalization

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.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

INR 6007 Credit Hours: 3

Seminar in International Relations

Advanced study of international relations, including survey of basic literature, analysis of numerous theoretical and methodological approaches, and analysis of major issues.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

INR 6107 Credit Hours: 3

American Foreign Policy

Objectives, formulation, and execution of foreign policy; critical issues and problems confronting the United States. Study of various conceptual, methodological, and theoretical approaches.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

ISM 5001 Credit Hours: 0

MBA Essentials: Management Information Systems

Overview of the role that information systems play in today's rapidly changing business environments, supporting routine business operations, facilitating management decision-making, and enabling more organic organizational forms.

USF | Muma College of Business |

ISM 6046 Credit Hours: 3

Contemporary Issues in Information Systems Management

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.

USF | Muma College of Business |

ISM 6123 Credit Hours: 3

Systems Analysis and Design

This course includes the foundations and methodologies for analysis of existing systems; the design, development, and implementation of new systems.

USF | Muma College of Business | School of Information Systems and Management

ISM 6136 Credit Hours: 3

Data Mining

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.

USF | Muma College of Business | School of Information Systems and Management

ISM 6145 Credit Hours: 3

Seminar on Software Testing

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.

USF | Muma College of Business | School of Information Systems and Management

ISM 6156 Credit Hours: 3

Enterprise Resource Planning & Business Process Management

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.



USF | Muma College of Business | School of Information Systems and Management

ISM 6217 Credit Hours: 3

Database Administration

Advanced principles of Database Administration. Database Organization Models. Disaster Planning for Database Files.

USF | Muma College of Business | School of Information Systems and Management

ISM 6225 Credit Hours: 3

Distributed Information Systems

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.

USF | Muma College of Business | School of Information Systems and Management

ISM 6266 Credit Hours: 3

Software Architecture

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.

USF | Muma College of Business | School of Information Systems and Management

ISM 6316 Credit Hours: 3

Project Management

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.

USF | Muma College of Business | School of Information Systems and Management

ISM 6404 Credit Hours: 3

Business Analytics and Big Data

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.

USF | Muma College of Business |

ISM 6419 Credit Hours: 3

Data Visualization for Storytelling

This course provides an overview of the data/information visualization discipline. Using a hands-on approach, readings and lectures will cover various visualization principles and tools.

USF | Muma College of Business | School of Information Systems and Management

ISM 6442 Credit Hours: 3

International Aspects of Information Science

Role of managers and information technology professionals in global business organizations and in deploying information systems to enable global operations.

USF | Muma College of Business | School of Information Systems and Management

ISM 6562 Credit Hours: 3

Big Data for Business Applications

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.

USF | Muma College of Business | School of Information Systems and Management

ISM 6642 Credit Hours: 3

Statistical Programming for Business Analytics

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.

USF | Muma College of Business | School of Information Systems and Management

ISM 6930 Credit Hours: 1-6

Selected Topics in MIS

Selected topics in MIS.

USF | Muma College of Business | School of Information Systems and Management

ISM 6945 Credit Hours: 1

BAIS Internship

Students complete an internship that allows them to apply knowledge from their program to issues relevant to the business analytics and information systems field. Students will produce and submit a tangible outcome to document their experience.

USF | Muma College of Business | School of Information Systems and Management

ISM 7406 Credit Hours: 3

Business Analytics

A research course for executives that presents an overview of data analytics techniques as well as examples of analytics research in business. A variety of analytics technique including



structured data, unstructured data and big data will be discussed.

USF | Muma College of Business | School of Information Systems and Management

ISM 7905 Credit Hours: 1-6

Independent Study

Independent study in which student must have a contract with an instructor.

USF | Muma College of Business | School of Information Systems and Management

ISM 7911 Credit Hours: 3

MIS Research Seminar II

An examination of recently published empirical research in MIS and related disciplines, focusing on the development of a sound theoretical foundation for hypotheses, selection of appropriate design and statistical techniques, and evaluation of the results.

USF | Muma College of Business | School of Information Systems and Management

ISM 7930 Credit Hours: 1-3

Selected Topics in MIS

USF | Muma College of Business | School of Information Systems and Management

ISM 7939 Credit Hours: 2-4

Executive Issues in MIS

A research seminar for executives that explores contemporary issues in Management Information Systems. The specific theme of the seminar will be determined through consultations between the instructor and the students prior to the first class meeting.

USF | Muma College of Business | School of Information Systems and Management

ISS 6184 Credit Hours: 3

Development Ethics: Principles and Practice

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.

USF | College of Arts and Sciences |

ISS 6910 Credit Hours: 1-19

Directed Research

A supervised program of intensive reading of interdisciplinary materials of specific interest.

USF | College of Arts and Sciences |

ITW 6910 Credit Hours: 1-19

Directed Research

Selected topics in Italian literature.

USF | College of Arts and Sciences | World Languages

JOU 5344 Credit Hours: 3

Multimedia Journalism

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

JOU 6107 Credit Hours: 3

News Coverage of Public Life

Problems and methods of reporting urban affairs, including municipal government, and politics: city, county, and state. Research/analyses of current issues.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

JOU 6122 Credit Hours: 3

Reporting: Methods and Perspectives

Instruction and practice in computer-assisted reporting, social science research, interviewing, data-document research, observational techniques, and other methods of news gathering.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

JOU 6191 Credit Hours: 3

Seminar: Contemporary Issues in Journalism

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

JOU 6360 Credit Hours: 3

Digital Media Technology

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

JOU 6362 Credit Hours: 1

Digital Audio Production



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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

JOU 6503 Credit Hours: 3
Entrepreneurial Journalism

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

JOU 6708 Credit Hours: 3
Digital Media Law and Ethics

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

LAE 5462 Credit Hours: 3
Young Adult and World Literature for New Teachers

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.

USF | College of Education I

LAE 5932 Credit Hours: 3
Selected Topics in the Teaching of English
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.

USF | College of Education I

LAE 6317 Credit Hours: 3
Teaching Composition in Elem Classroom: Research into Practice
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.

USF | College of Education I

LAE 6339 Credit Hours: 3
Methods of Teaching Secondary English Language Arts

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.

USF | College of Education I

LAE 6366 Credit Hours: 3
New Perspectives on the Teaching of Young Adult Literature in Middle & Secondary Schools

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.

USF | College of Education I

LAE 6375 Credit Hours: 3
Contemporary Composition Studies

Examines the important research and theory in contemporary position pedagogy.

USF | College of Arts and Sciences | English

LAE 6415 Credit Hours: 3
Literature and the Learner

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.

USF | College of Education I

LAE 6467 Credit Hours: 3
World Literature for Teachers

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.

USF | College of Education I

LAE 6637 Credit Hours: 3
Current Trends in Secondary English Education
Curricular patterns and instructional practices in secondary English.

USF | College of Education I

LAE 6738 Credit Hours: 3



Teaching Reading in English Curriculum

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.

USF | College of Education |

LAE 6793 Credit Hours: 3

Professional Leadership and Research in the Teaching of Writing

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.

USF | College of Education |

LAE 6906 Credit Hours: 1-6

Independent Study in English Education

This course permits a student to explore a topic of interest in depth under the direction and supervision of a faculty member.

USF | College of Education |

LAE 6947 Credit Hours: 6

Internship in Secondary Education for English

Students will work with a cooperating teacher and university supervisor to complete their internship requirements in a classroom setting assigned by the university.

USF | College of Education |

LAE 7376 Credit Hours: 3

Problems in Advanced English Instruction of Composition

Apprenticed, closely supervised study of and practice in teaching of college and university advanced composition. Student may elect to work with nonfiction, fiction, or poetry.

USF | College of Arts and Sciences | English

LAE 7717 Credit Hours: 3

Theories and Patterns of Advanced Language Arts Instruction

New research findings and theories relating to language patterns and contemporary programs for teaching language arts.

USF | College of Education |

LAE 7735 Credit Hours: 3-15

Advanced Seminar in English Education

Doctoral seminar explores theories, perspectives and research related to the study of the English Language Arts. Topics vary by semester. Doctoral standing only.

USF | College of Education |

LAE 7745 Credit Hours: 3

Literary Theory and Research in Children's Literature

Critical examination of literary theories that inform the interpretation, criticism, and reading of literature written for school-aged readers and to survey current research in the field of literature in education.

USF | College of Education |

LAE 7794 Credit Hours: 3

Survey of Research on Writing Development and Instruction

The purpose of this course is to survey, discuss, analyze, and critique seminal and current research on writing development and instruction in the context of school. Students will also engage in research on writing development or instruction.

USF | College of Education |

LAE 7868 Credit Hours: 3

Symbolic Processes of Multimedia Literacies

Students will critically examine research in multimedia, multi-modal literacies and investigate the interplay among symbolic processes used to produce and consume media-based literacies. Open to non-majors. Not repeatable for credit.

USF | College of Education |

LAE 7980 Credit Hours: 2-30

Dissertation

USF | College of Education |

LAS 6913 Credit Hours: 1-9

Independent Study and Research in Latin American

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.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

LAS 6971 Credit Hours: 1-12

Thesis in Latin America and Caribbean

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.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies



LIN 6081 Credit Hours: 3

Introduction to Graduate Study in Linguistics

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.

USF | College of Arts and Sciences | World Languages

LIN 6675 Credit Hours: 3

The Grammatical Structure of American English

Analysis and description of major morphological and syntactic structures of American English, with emphasis upon applied linguistics.

USF | College of Arts and Sciences | World Languages

LIN 6720 Credit Hours: 3

Second Language Acquisition

Neurolinguistic, psycholinguistic, and sociolinguistic bases of second language acquisition by both children and adults.

USF | College of Arts and Sciences | World Languages

LIN 6726 Credit Hours: 3

Individual Differences in Second Language Acquisition

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.

USF | College of Arts and Sciences | World Languages

LIN 6908 Credit Hours: 1-19

Independent Study

Independent study in which the student must have a contract with an instructor.

USF | College of Arts and Sciences | World Languages

LIN 6932 Credit Hours: 1-4

Selected Topics

Content will depend upon instructor's interests and students' needs. Such topics and neurolinguistics, bilingualism, and discourse analysis may be taught.

USF | College of Arts and Sciences | World Languages

LIN 7637 Credit Hours: 3

Research and Writing in Applied Linguistics

This advanced graduate-level course examines research methods and conventions of research-based writing in Applied Linguistics. Students develop an understanding of academic writing process and practice scholarly writing in a supportive environment.

USF | College of Arts and Sciences | World Languages

LIN 7639 Credit Hours: 3

Quantitative Methods in Applied Linguistics

This course is intended to help you develop as applied linguistics scholars with regards to quantitative analyses using SPSS.

USF | College of Arts and Sciences | World Languages

LIN 7911 Credit Hours: 1-19

Directed Research - Linguistics and Applied Language Studies

This course is for directed research at the doctoral level.

USF | College of Arts and Sciences | World Languages

LIN 7980 Credit Hours: 2-19

Dissertation - Linguistics and Applied Language Studies

Students will enroll in dissertation credits when working on the dissertation.

USF | College of Arts and Sciences | World Languages

LIS 5120 Credit Hours: 3

Cultural Heritage Institutions and Libraries

Course will examine definitions of culture, study cultural heritage organizations, explore global cultural policy, and develop a philosophy of librarianship that places the library in its various communities as a cultural heritage institution.

USF | College of Arts and Sciences | School of Information

LIS 5315 Credit Hours: 3

Instructional Graphics

Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.

USF | College of Arts and Sciences | School of Information

LIS 5333 Credit Hours: 3

TV in Schools and Libraries

Small format video tape recordings and the utilization of open and closed broadcasts in schools and libraries.

USF | College of Arts and Sciences | School of Information

LIS 5526 Credit Hours: 3

Teaching Information Literacy

Introduces the theoretical and practical aspects of information literacy and teaches how to develop the skills necessary to incorporate the topic into the curriculum of all types of library and information settings.



USF | College of Arts and Sciences | School of Information

LIS 5631 Credit Hours: 3

Health Information Sources

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.

USF | College of Arts and Sciences | School of Information

LIS 5937 Credit Hours: 1-4

Selected Topics in Library Studies

Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.

USF | College of Arts and Sciences | School of Information

LIS 6026 Credit Hours: 3

Introduction to Archives and Records Management

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.

USF | College of Arts and Sciences | School of Information

LIS 6110 Credit Hours: 3

History of Libraries

Development of libraries as found from the earliest records to the great libraries of modern times, and the library as a social institution.

USF | College of Arts and Sciences | School of Information

LIS 6260 Credit Hours: 3

Foundations of Information Science and Technology

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.

USF | College of Arts and Sciences | School of Information

LIS 6271 Credit Hours: 3

Research Methods in Library and Information Science

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.

USF | College of Arts and Sciences | School of Information

LIS 6316 Credit Hours: 3

Visualization of Knowledge

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.

USF | College of Arts and Sciences | School of Information

LIS 6404 Credit Hours: 3

Project Management for Information Professionals

This course examines the project management function as it is applied in information-related professions, including the fundamentals of project management throughout the system development life cycle.

USF | College of Arts and Sciences | School of Information

LIS 6432 Credit Hours: 3

Seminar in Academic Libraries

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.

USF | College of Arts and Sciences | School of Information

LIS 6455 Credit Hours: 3

Organization and Administration of the School Media Center

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.

USF | College of Arts and Sciences | School of Information

LIS 6472 Credit Hours: 3

Seminar in Special Libraries

Identification of problems and critical examination of methods in administrative areas of technical and special service clientele; fiscal and legal responsibilities, staff organization, and services in special libraries.

USF | College of Arts and Sciences | School of Information

LIS 6475 Credit Hours: 3

Health Sciences Librarianship

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.



USF | College of Arts and Sciences | School of Information

LIS 6514 Credit Hours: 3

Digital Libraries

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.

USF | College of Arts and Sciences | School of Information

LIS 6523 Credit Hours: 3

Adult Services in Libraries

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.

USF | College of Arts and Sciences | School of Information

LIS 6542 Credit Hours: 3

The Curriculum and Instructional Technology

Effective utilization of instructional materials as they relate to specific areas of curriculum in elementary and high school programs.

USF | College of Arts and Sciences | School of Information

LIS 6565 Credit Hours: 3

Books and Related Materials for Young Adults

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.

USF | College of Arts and Sciences | School of Information

LIS 6610 Credit Hours: 3

Information Sources and Services in the Humanities

Consideration of the bibliographical and reference materials in the humanities with training and practice in their use for solving problems in the reference service.

USF | College of Arts and Sciences | School of Information

LIS 6624 Credit Hours: 3

Information Sources and Services in Business and Law

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.

USF | College of Arts and Sciences | School of Information

LIS 6661 Credit Hours: 3

Government Documents

The nature of state, federal, United Nations, and international documents, their reference and research value; the techniques of acquisition, organization, and reference use.

USF | College of Arts and Sciences | School of Information

LIS 6674 Credit Hours: 3

Open Source Intelligence (OSINT)

This course focuses on the collection, analysis, exploitation and dissemination of publicly available information to address specific intelligence or information requirements.

USF | College of Arts and Sciences | School of Information

LIS 6702 Credit Hours: 3

Advanced Intelligence Analytic Methods

This course is designed to help the student select and apply complex, structured techniques and methods used to support intelligence analysis.

USF | College of Arts and Sciences | School of Information

LIS 6709 Credit Hours: 3

Cyber Intelligence

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.

USF | College of Arts and Sciences | School of Information

LIS 6712 Credit Hours: 3

Organization of Knowledge II

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.

USF | College of Arts and Sciences | School of Information

LIS 6726C Credit Hours: 3

Metadata

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.

USF | College of Arts and Sciences | School of Information

LIS 6773 Credit Hours: 3

Digital Curation

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.

USF | College of Arts and Sciences | School of Information



LIS 6933 Credit Hours: 1

Veterans' Cybersecurity and Intelligence Seminar

This seminar provides a face-to-face learning experience reviewing professional issues and topics of current interest pertaining to cybersecurity and/or intelligence. Seminar topics and focus may vary from semester to semester.

USF | College of Arts and Sciences | School of Information

LIS 6949 Credit Hours: 2-6

Practicum in Archives and Special Collections

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.

USF | College of Arts and Sciences | School of Information

LIT 6105 Credit Hours: 3

Studies in Continental Literature

General areas include the Renaissance, the Enlightenment, the Novel in Europe, the Romantic Movement on the Continent, and Classical Comedy.

USF | College of Arts and Sciences | English

LIT 6934 Credit Hours: 1-6

Selected Topics in English Studies

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.

USF | College of Arts and Sciences | English

LNW 5934 Credit Hours: 4

Selected Topics

Study of an author, movement, or theme.

USF | College of Arts and Sciences | World Languages

MAA 5307 Credit Hours: 3

Real Analysis I

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 L_p spaces.

USF | College of Arts and Sciences | Mathematics and Statistics

MAA 6406 Credit Hours: 3

Complex Analysis I

Linear transformations, analytic functions, conformal mapping, Cauchy's theorem and applications, power series, partial fractions and factorization, elementary Riemann surfaces, Riemann mapping theorem.

USF | College of Arts and Sciences | Mathematics and Statistics

MAA 6506 Credit Hours: 3

Functional Analysis I

Normed linear spaces and topological vector spaces; open mapping, closed graph, and Hahn-Banach Theorem, UB principle, compact operators, dual spaces.

USF | College of Arts and Sciences | Mathematics and Statistics

MAA 6616 Credit Hours: 3

Real Analysis II

A continuation of the study of real analysis. Topics include Banach spaces, measure and integration, Riesz Representation Theorem, and the Radon-Nikodym Theorem.

USF | College of Arts and Sciences | Mathematics and Statistics

MAD 5305 Credit Hours: 3

Graph Theory

Brief introduction to classical graph theory (4-color theorem, etc.), directed graphs, connected digraphs, condensations, incidence matrices, Polya's Theorem, networks.

USF | College of Arts and Sciences | Mathematics and Statistics

MAD 6207 Credit Hours: 3

Combinatorics II

Combinatorics of finite sets: posets, hypergraphs and external problems, matroids, block designs, Mobius inversion for partially ordered sets, Polya's enumeration theory.

USF | College of Arts and Sciences | Mathematics and Statistics

MAD 6616 Credit Hours: 3

Algebraic Automata Theory

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.

USF | College of Arts and Sciences | Mathematics and Statistics

MAE 5177 Credit Hours: 3

Teaching College Mathematics

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.

USF | College of Arts and Sciences | Mathematics and Statistics



MAE 6117 Credit Hours: 3

Teaching Elementary Math

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.

USF | College of Education |

MAE 6127 Credit Hours: 3

Probability and Statistics for Middle Grades Teachers

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.

USF | College of Education |

MAE 6137 Credit Hours: 3

Topics in Teaching Probability and Statistics

This course examines issues related to teaching probability and statistics in secondary schools.

USF | College of Education |

MAE 6316 Credit Hours: 3

Geometry and Measurement for Elementary Teachers

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.

USF | College of Education |

MAE 6325 Credit Hours: 3

Number Theory for Middle Grades Teachers

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.

USF | College of Education |

MAE 6329 Credit Hours: 3

Geometry and Measurement for Middle Grades Teachers

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.

USF | College of Education |

MAE 6336 Credit Hours: 3

Topics in Teaching Calculus

This course examines issues related to teaching calculus in secondary schools.

USF | College of Education |

MAE 6338 Credit Hours: 1-4

Topics in Teaching Geometry

Topics in geometry, philosophy, new trends, and methods of teaching secondary school geometry.

USF | College of Education |

MAE 6362 Credit Hours: 3

Senior High Mathematics Methods

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.

USF | College of Education |

MAE 6643 Credit Hours: 3

Communication Skills in Mathematics

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.

USF | College of Education |

MAE 6654 Credit Hours: 3

Teaching Technology-Enhanced Algebra in the Middle Grades

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.

USF | College of Education |

MAE 6906 Credit Hours: 1-6

Independent Study in Mathematics Education

This course permits a student to explore a topic of interest in depth under the direction and supervision of a faculty member.

USF | College of Education |

MAE 6947 Credit Hours: 6

Internship in Secondary Education for Mathematics

Students will work with a cooperating teacher and university supervisor to complete their internship requirements in a classroom setting assigned by the university.

USF | College of Education |



MAE 7138 Credit Hours: 3

Assessment in Mathematics Education

This course discusses issues related to assessment in mathematics education at all levels, including state, national, and international assessments. It also discusses issues related to rubrics and alternative assessments in mathematics.

USF | College of Education |

MAE 7655 Credit Hours: 3

Technology Issues in Mathematics Education

This course focuses on issues surrounding the use of technology in mathematics education. It examines perspectives and research about technology in mathematics education and their implications for technology instruction in school mathematics programs.

USF | College of Education |

MAE 7796 Credit Hours: 3

Research Issues in Mathematics Education

This course focuses on current research in mathematics education and its implications for instruction in school mathematics programs, particularly its impact on mathematics curricula, learning, and instruction.

USF | College of Education |

MAE 7945 Credit Hours: 3

Practicum in Mathematics Education

This practicum provides doctoral students in mathematics education an opportunity to engage in professional experiences in teaching or research that are individualized to meet future academic needs and goals.

USF | College of Education |

MAN 5002 Credit Hours: 0

MBA Essentials: Management

A basic conceptual overview of management principles. Topical coverage includes ethics, globalization, strategic management, leadership, and individual and group decision making.

USF | Muma College of Business |

MAN 6055 Credit Hours: 3

Organizational Behavior and Leadership

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.

USF | Muma College of Business | School of Information Systems and Management

MAN 6107 Credit Hours: 3

Leading Sustainable Enterprise: Goals and Processes

Examines the perspective required of the manager/leader/facilitator in light of personal, organizational, and societal needs judged by standards of effectiveness and ethicalness.

USF | Muma College of Business | School of Information Systems and Management

MAN 6140 Credit Hours: 3

Decision Making & Problem Solving

USF | Muma College of Business | School of Information Systems and Management

MAN 6147 Credit Hours: 2

Leadership/Management Concepts

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.

USF | Muma College of Business | School of Information Systems and Management

MAN 6165 Credit Hours: 3

Principles of Collaboration

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.

USF | Muma College of Business | School of Information Systems and Management

MAN 6244 Credit Hours: 3

Organizational Behavior

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.

USF | Muma College of Business |

MAN 6289 Credit Hours: 3

Organizational Change and Development

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.

USF | Muma College of Business | School of Information Systems and Management

MAN 6347 Credit Hours: 3

People Analytics

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.

USF | Muma College of Business | School of Information Systems and Management

MAN 6435 Credit Hours: 3

Contract Management

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).

USF | Muma College of Business | School of Information Systems and Management

MAN 6518 Credit Hours: 3

Sustainable Production Systems

Examines production processes dedicated to sustainable organizational performance through elimination of waste and reduction in resources consumed.

USF | Muma College of Business | School of Information Systems and Management

MAN 6607 Credit Hours: 3

Managing International Cultural Differences

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.

USF | Muma College of Business | School of Information Systems and Management

MAN 6746 Credit Hours: 3

Designing Sustainable Enterprise

Examines an analytical framework for organizations to build more sustainable economies, societies, and natural environments.

USF | Muma College of Business | School of Information Systems and Management

MAN 6766 Credit Hours: 3

Leadership and Corporate Accountability

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.

USF | Muma College of Business |

MAN 6782 Credit Hours: 3

Organizational Strategies for the 21st Century

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.

USF | Muma College of Business |

MAN 6905 Credit Hours: 1-19

Independent Study

Independent study in which student must have a contract with an instructor.

USF | Muma College of Business | School of Information Systems and Management

MAN 6930 Credit Hours: 1-4

Selected Topics

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.

USF | Muma College of Business | School of Information Systems and Management

MAN 7298 Credit Hours: 3

Creativity and Innovation

This course addresses the theory, research, and practice of innovation stimulation and management. Critically reviews research on creativity stimulation, product/service design, commercialization, etc. Participants conduct and report a major project.

USF | Muma College of Business | School of Information Systems and Management

MAN 7980 Credit Hours: 2-21

Dissertation

USF | Muma College of Business | School of Information Systems and Management

MAP 5317 Credit Hours: 3

Ordinary Differential Equations II

Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.

USF | College of Arts and Sciences | Mathematics and Statistics

MAP 5407 Credit Hours: 3

Methods of Applied Mathematics

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.

USF | College of Arts and Sciences | Mathematics and Statistics

MAP 6312 Credit Hours: 3



Dynamical Systems I

Topics include finite-dimensional dynamics: solution flow, nonlinear second-order equations, steady states, low-dimensional dynamics, bifurcation, chaos; asymptotic dynamics: abstract evolutionary equation, stable and unstable manifolds, global attractors.

USF | College of Arts and Sciences | Mathematics and Statistics

MAP 6356 Credit Hours: 3

Partial Differential Equations

Advanced topics from: elliptic boundary value problems, semigroup theory, Sobolev spaces, degree theory, regularity, evolution equations

USF | College of Arts and Sciences | Mathematics and Statistics

MAP 6426 Credit Hours: 3

Special Functions

A study of special functions at the graduate level. Topics include series and integral representations; generating functions; recurrence relations and orthogonality properties of the special functions; and Bessel, Legendre, and hypergeometric functions.

USF | College of Arts and Sciences | Mathematics and Statistics

MAR 6158 Credit Hours: 3

International Marketing Management

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.

USF | Muma College of Business | School of Marketing and Innovation

MAR 6406 Credit Hours: 3

Sales Management

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.

USF | Muma College of Business | School of Marketing and Innovation

MAR 6577 Credit Hours: 3

Seminar in Consumer Behavior

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.

USF | Muma College of Business |

MAR 6735 Credit Hours: 3

Digital Marketing

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

USF | Muma College of Business | School of Marketing and Innovation

MAR 6816 Credit Hours: 3

Marketing Strategy

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.

USF | Muma College of Business | School of Marketing and Innovation

MAR 6839 Credit Hours: 3

Creativity and Innovation in Marketing

This course is designed to stimulate individual and team creativity (divergent thinking) while helping individuals and organization realize their innovation goals.

USF | Muma College of Business | School of Marketing and Innovation

MAR 6916 Credit Hours: 1-19

Directed Research

USF | Muma College of Business | School of Marketing and Innovation

MAR 7555 Credit Hours: 3

Consumer Behavior Theory

This course investigates the interrelationships and applications of behavioral science theories, concepts and methodologies to problems of understanding group as well as individual behavior in the market place.

USF | Muma College of Business | School of Marketing and Innovation

MAR 7667 Credit Hours: 3

Marketing Models and Strategy Applications

A model-building approach to the management of marketing. Includes models developed to aid in the design, implementation, and evaluation of corporate marketing strategies; information systems and marketing audits; and the interrelationships of economic, quantitative, and behavioral disciplines that provide the structure and tools necessary to develop and implement marketing decision support systems.

USF | Muma College of Business | School of Marketing and Innovation



MAR 7910 Credit Hours: 1-12

Independent Study in Marketing

This course permits a doctoral student to pursue research in a specific area under the direct supervision of a faculty member.

USF | Muma College of Business | School of Marketing and Innovation

MAR 7939 Credit Hours: 2-4

Executive Issues in Marketing

A research seminar for executives that explores contemporary issues in marketing. The specific theme of the seminar will be determined through consultations between the instructor and the students prior to the first class meeting.

USF | Muma College of Business | School of Marketing and Innovation

MAS 5145 Credit Hours: 3

Advanced Linear Algebra

Finite-dimensional vector spaces over arbitrary fields, dual spaces, canonical forms for linear transformations, inner product spaces, orthogonal, unitary, and self-adjoint operators and quadratic forms.

USF | College of Arts and Sciences | Mathematics and Statistics

MAS 5311 Credit Hours: 3

Algebra I

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.

USF | College of Arts and Sciences | Mathematics and Statistics

MAT 5932 Credit Hours: 1-4

Selected Topics

Each course covers a single topic outside the usual curriculum.

USF | College of Arts and Sciences | Mathematics and Statistics

MAT 6911 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | Mathematics and Statistics

MAT 6939 Credit Hours: 1-4

Graduate Seminar

Direction of this seminar is by a faculty member. Students are required to present research papers from the literature.

USF | College of Arts and Sciences | Mathematics and Statistics

MAT 7912 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | Mathematics and Statistics

MCB 5206 Credit Hours: 3

Public Health and Pathogenic Microbiology

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.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

MCB 5655 Credit Hours: 3

Applied and Environmental Microbiology

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.

USF | College of Arts and Sciences | Integrative Biology

MCB 6433 Credit Hours: 3

Clinical Correlations in Molecular Medicine

The course concentrates on molecular medicine and focuses on several disease conditions that provide an "in-depth" understanding of how changes in cellular structure/function and metabolic pathway regulation can result in diseases and their therapy.

USF | Morsani College of Medicine | Medical Sciences

MCB 6930 Credit Hours: 1

Graduate Microbiology Seminar

A critical examination and discussion of current literature of microbiology.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

MDC 7030 Credit Hours: var.

Select Year 3

This course is will build upon the foundations taught to select students in years 1 and 2 including topics such as: health systems, leadership, and values-based patient centered care. Students will meet once a week for the duration of their third year in medical school. Students will have the opportunity to apply concepts learned in this course to their clinical experiences.

USF | Morsani College of Medicine | Medicine-General

MDC 7122 Credit Hours: var.

Primary Care and Special Care Populations Clerkship

The primary care and special care populations clerkship introduces students to the principles of primary care medicine



(internal medicine, family medicine, and pediatrics) in the ambulatory setting.

USF | Morsani College of Medicine | Medicine-General

MDC 7182 Credit Hours: var.

Maternity Care, Ambulatory Women's Health, Pediatrics

This clerkship will introduce students to the essentials of maternity care, ambulatory women's health, and pediatrics. Exposure to the unique aspects of women's health, maternity care and pediatric medicine will be provided with a focus on family centeredness, counseling, and the education of families and patients.

USF | Morsani College of Medicine | Medicine-General

MDC 7250 Credit Hours: var.

Skin and Bones Medicine Clerkship

The Skin and Bones Medicine Clerkship is 4 weeks in duration dealing with the content areas of musculoskeletal and dermatology.

USF | Morsani College of Medicine | Medicine-General

MDC 7402 Credit Hours: var.

Integrated Internal Medicine - Pediatrics

This clerkship introduces students to basic principles and practices of hospital-based internal medicine and pediatrics. When possible, it integrates interdisciplinary principles of internal medicine and pediatric disease management.

USF | Morsani College of Medicine | Medicine-General

MDC 7601 Credit Hours: var.

Surgical Care Clerkship

The surgical care clerkship focuses on the development of the fundamental principles in the surgical care of patients.

USF | Morsani College of Medicine | Medicine-General

MDC 7801 Credit Hours: var.

Surgical Aspects of Neurological Disease

Students will participate in daily ward rounds and will be integrated into the ward management team. Participating students will be required to submit neurological histories and physicals and to follow their patients from the time of admission through surgery into the post-operative period and discharge. At least one oral presentation will be expected during the rotation. Student participation in the operating room will be geared toward individual talents at the discretion of the operating surgeon. There will be a concentrated experience in the diagnosis and management of neurosurgical illness and active participation in the radiological, clinical, and teaching rounds.

USF | Morsani College of Medicine | Medicine-General

MDC 8340 Credit Hours: var.

Critical Care Senior Clerkship

The goals of this course are to develop an approach to the care of patients with complex, critical illnesses; to understand the physiologic and pathologic abnormalities that occur in ICU patients; and to apply science principles basic to the practice of medicine in the clinical management of complex illness.

USF | Morsani College of Medicine | Medicine-General

MDE 7494 Credit Hours: var.

Introduction to Orthopaedic Pediatrics

This elective is designed to introduce 3rd year medical students to the subspecialty of pediatric orthopaedic surgery. Working alongside USF clinical faculty the student will experience the full range of pediatric orthopaedics from office triage and management of common orthopaedic problems to surgical correction of complex deformity and traumatic injuries in children and adolescents.

USF | Morsani College of Medicine | Medicine-General

MDE 8035 Credit Hours: var.

Hospital Medicine and Patient Safety Elective

This rotation is designed to further the fourth year medical student's education in internal medicine and examine the topics of patient safety and preventable medical errors.

USF | Morsani College of Medicine | Medicine-General

MDE 8037 Credit Hours: var.

Occupational Medicine

This elective will encompass common work injury assessment and care, specialized physical exams (i.e., commercial driver, surveillance, pre-placement work exams, etc.), medical services mandated through osha and other regulatory agencies, population health considerations for work groups, preventive medicine concepts, environmental health issues, toxic exposures at work, and assessing individuals for capability to perform work tasks.

USF | Morsani College of Medicine | Medicine-General

MDE 8040 Credit Hours: var.

Medical Spanish

Students participating in this course will learn how to communicate more effectively with Spanish-speaking patients through basic Spanish language skills with an emphasis on communicating across cultures in the healthcare setting. Cultural awareness of various Hispanic/Latino groups and appropriate use of interpreters will also be a focus. This course includes didactic content, the use of programmed patients, and clinical/field work experiences to enable students to communicate more effectively with Spanish-speaking patients in a healthcare setting. The course is designed for non-speakers of Spanish and those with limited Spanish speaking skills.

USF | Morsani College of Medicine | Medicine-General



MDE 8048 Credit Hours: var.

Narrative Medicine

This elective will introduce medical students to narrative skills in clinical practice and to the power and influence of stories in patient-centered care. Students will develop and practice skills in the three main areas of narrative competence (attention, representation, and affiliation), learn to integrate these narrative skills into clinical settings both diagnostically and therapeutically, and strengthen their ability to perceive and to communicate complex information effectively and persuasively.

USF | Morsani College of Medicine | Medicine-General

MDE 8053 Credit Hours: var.

Aging, End-of-Life Issues in Literature/Film/Art

The object of this elective is to provide consideration of portrayals of aging and end-of-life issues using humanities tools. Students explore these issues in medical text and clinical experiences, but this course provides a different perspective.

USF | Morsani College of Medicine | Medicine-General

MDE 8056 Credit Hours: var.

Medical Humanities and Human Values

Students may arrange for independent study on topics relevant to human values in medicine. The faculty member who will supervise the study must approve a plan for such study. The plan will indicate the objectives of the study, the activities to be undertaken in pursuit of the objectives, and the means of evaluating the study.

USF | Morsani College of Medicine | Medicine-General

MDE 8063 Credit Hours: var.

Ethics across the Hospital: the Ethics Committee and the IRB

This elective is designed to introduce senior students to the two institutionalized forms of ethical analysis and action that are now standard in many American hospitals. The students will work with the IRB and with the ethics committee chair and the ethics program advisor. This elective will provide students with a basic understanding of the range and complexity of ethical issues that arise in teaching hospitals.

USF | Morsani College of Medicine | Medicine-General

MDE 8072 Credit Hours: var.

International Family Practice Elective

There are a wide variety of opportunities available for students with an interest in international health care. This elective is designed to provide support for USF students to get international experience from different sources. Experiences may include: 1. Foreign travel and provision of medical services 2. Academic study (readings and lectures) on the health problems of a particular area 3. Preparation and/or presentation of a report on the student's experience 4. The international development of the specialty of family medicine 5. Other

clinical issues (including the potential of time spent in USF family medicine clinics).

USF | Morsani College of Medicine | Medicine-General

MDE 8090 Credit Hours: var.

Theory and Practice of Teaching

Year 4 medical students will teach in courses throughout the year, tutor junior students, and design/teach discussion sessions. Evening seminars will focus on principles of education, good teaching technique/methods, & principles of assessment and feedback.

USF | Morsani College of Medicine | Medicine-General

MDE 8094 Credit Hours: var.

Interprofessional Teaching in Healthcare Simulation

This elective is designed to introduce students to the art and science of simulation in healthcare and how to utilize simulation to teach effectively.

USF | Morsani College of Medicine | Medicine-General

MDE 8104 Credit Hours: var.

Complex Care in the Community

This elective is designed to introduce senior students to comprehensive, relationship centered care for complex patients in community settings. At the intersection of community health and primary care, students will work with our outreach teams as health coaches and story gatherers to partner with patients and learn from the patient's point of view what it takes to live a good life in the face of complex illness.

USF | Morsani College of Medicine | Medicine-General

MDE 8120 Credit Hours: var.

Family Medicine Elective

The aim of this elective is to reintroduce students to primary care in a family medicine clinic. Students will be responsible for evaluating patients under the guidance of a faculty member. Emphasis will be on the patient as a person, and the application of knowledge of the effects of disease, lifestyle, family setting, and personality on the development and management of the patient's problems. Experience will be gained in the management of the wide range of problems present in family medicine.

USF | Morsani College of Medicine | Medicine-General

MDE 8127 Credit Hours: var.

Family Medicine Flexible Elective

The student is expected to design their elective in advance with family medicine faculty and to take an active role in the assessment and management of patients.

USF | Morsani College of Medicine | Medicine-General



MDE 8137 Credit Hours: var.

Elective in Family Rural Medicine

This elective rotation is designed to introduce the senior student to the unique characteristics of medical practice in a rural or underserved community. Students will be supervised by clinical family physician faculty and will gain a better understanding of providing care to a medically underserved population and the tremendous health needs that exist.

USF | Morsani College of Medicine | Medicine-General

MDE 8141 Credit Hours: var.

Primary Care of the Elderly

The student will work with older patients in the outpatient clinics, make home visits through the hospital based home care program of the VA, visit terminal patients through the hospice program and VA Nursing Home, and care for frail older people living in nursing homes in the community and at the VA Hospital.

USF | Morsani College of Medicine | Medicine-General

MDE 8150 Credit Hours: var.

Introduction to Palliative Medicine and Hospice

This elective is designed to introduce the basic philosophy of palliative care and how these principles are applied to patients with advanced complex diseases.

USF | Morsani College of Medicine | Medicine-General

MDE 8160 Credit Hours: var.

Senior Elective OB/GYN

This elective provides advanced clinical experience in the medical and surgical aspects of gynecology. Students will take an active role in all phases of patient evaluation and management, both inpatient and outpatient. Pertinent topics will be assigned for presentation and discussion.

USF | Morsani College of Medicine | Medicine-General

MDE 8162 Credit Hours: var.

Gynecologic Oncology

Demonstrate a level of skill in-patient care of both gynecologic oncology in-patients and outpatients comparable to an intern completing his/her first gynecologic oncology rotation.

USF | Morsani College of Medicine | Medicine-General

MDE 8164 Credit Hours: var.

Advanced OB/GYN (Milestone Elective)

This elective is designed for senior students who have chosen to pursue a career in obstetrics & gynecology. It will specifically make sure the students meet the level 1 ACGME defined milestones. Level 1 milestones are knowledge, skills, attitudes, and other attributes that ACGME expects that an incoming resident should have. Under the supervision of clinical faculty, students will obtain knowledge and skills that will help facilitate transition into residency.

USF | Morsani College of Medicine | Medicine-General

MDE 8168 Credit Hours: var.

Urogynecology

Demonstrate a level of skill in-patient care of both urogynecology in-patients and outpatients comparable to an intern completing his/her initial gynecologic rotation.

USF | Morsani College of Medicine | Medicine-General

MDE 8181 Credit Hours: var.

Obstetrics Elective

Develop a level of skill in patient care of obstetrical patients comparable to an intern on his/her obstetrics rotation.

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MDE 8202 Credit Hours: 11

Introduction to Internal Medicine - Pediatrics

This elective is designed to introduce senior students to the specialty of internal medicine-pediatrics. Under the supervision of faculty, students will care for adults and children in an ambulatory primary care setting.

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MDE 8211 Credit Hours: var.

Gen Internal Medicine Consult Service

This course offers the opportunity to participate in the major practice activities of the general internist.

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MDE 8221 Credit Hours: var.

Harvey Elective in Cardiology

The major objective of this elective will be to teach the student to perform comprehensive cardiac assessment, emphasizing the physical examination. The course will utilize Harvey (the teaching manikin) and actual patients. This elective will be primarily a self-study course (utilizing Harvey) with a weekly lecture from a cardiologist to review the materials and a weekly quiz to assess the students' progress in their self-study program. Time will also be devoted to acquiring fundamentals of ECG interpretation and exposure to utilization of exercise testing, echocardiography and cardiac catheterization.

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MDE 8226 Credit Hours: var.

Cardiology Acute Coronary Care Unit

The primary assignment is with the house officers, cardiology fellow and attending cardiologists in the acute coronary care units. Emphasis is on the total evaluation of the patient with acute and critical cardiovascular disease. Experience is available in the non-invasive heart station, cardiac catheterization lab and/or the electrophysiology lab by prior arrangement.



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MDE 8250 Credit Hours: var.

Special Topics in Dermatology

Courses centering around topics of current interest or of special interest to students or instructors in dermatology.

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MDE 8260 Credit Hours: var.

Clinical Endocrinology and Metabolism

The student will directly participate in the performance of detailed endocrine tests to better understand their application and interpretation. The student will participate in seminar discussions of clinically important subjects. Informal meetings between students and senior staff members will be conducted on a regular basis to assure that the student fully understands the pathogenesis, diagnosis and treatment of endocrine-metabolic disorders (pituitary, thyroid, parathyroid, adrenal, gonadal, diabetic, etc.).

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MDE 8270 Credit Hours: var.

Gastroenterology Elective

Upon successful completion of this elective, the student may expect to achieve an acceptable level of competence in the management of disorders of the gastrointestinal tract and liver. This will be achieved by the...

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MDE 8273 Credit Hours: var.

Hepatology Elective

The student may expect to achieve a level of competence in managing common and uncommon disorders of the liver and managing patients with end stage liver disease as well as exposure to the management of liver transplant patients.

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MDE 8281 Credit Hours: var.

Ambulatory Hematology-Oncology

The objective of this elective is to provide the student with a basic understanding of the principles of medical management evaluation and management of hematologic and cancer related problems in the outpatient setting.

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MDE 8284 Credit Hours: var.

Adult Bone Marrow Transplantation

At the completion of this elective the student should: 1. have an understanding of the process of bone marrow transplantation and the associated immunobiology of immune recovery after ablative therapy and stem cell infusion 2. Identify the different types of transplantation (syngeneic, allogeneic, and autologous)

and the diseases in which each type of transplantation may play a role in therapy 3. Identify common problems related to marrow transplantation such as cytopenias; infectious complications; nutrition and electrolyte imbalance; renal, cardiac, and pulmonary insufficiencies; graft vs. Host disease; as well as outline current medical means to support patients until marrow and immune recovery.

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MDE 8291 Credit Hours: var.

Medical Oncology

Upon the completion of this elective, the student should understand the principles of diagnosis and management of a segment of patients with malignant disease who require hospitalization, including diagnostic studies, management of all stages of malignant diseases, diagnosis and management of complication of cancer and cancer chemotherapy, palliative care of cancer patients, and end-of-life care.

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MDE 8300 Credit Hours: var.

Laboratory and Basic Immunology

In this elective, an opportunity is offered for fourth year medical students and immunology residents to have hands-on experience using modern techniques in the laboratory.

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MDE 8311 Credit Hours: var.

Clinical Rheumatology Elective

Rheumatic diseases are complex multi-system diseases. All subspecialties and general internists need to be familiar with the clinical aspects of these diseases. Musculoskeletal complaints, including arthritis, low back pain, sprains, and strains, are the most common reasons for patients to consult their physicians. Our clinics have an excellent balance of both common and rare musculoskeletal rheumatic diseases.

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MDE 8322 Credit Hours: var.

Infectious Diseases & Tropical Medicine

In addition to participation in bedside consultative evaluation of patients and the presentation of findings on daily teaching rounds, students are required to employ standard textbooks, contemporary literature and laboratory data in an organized fashion to arrive at "best fit" diagnoses. Progress of patients will be assessed and recorded daily.

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MDE 8324 Credit Hours: var.

Infections in Cancer/Bone Marrow Transplant Patients

An infectious disease approach to managing neutropenic patients, bone marrow transplant patients and patients with solid organ or hematologic cancers will be presented. The



student will develop skills in managing patients with selected bacterial, fungal, and mycobacterial infections unique to this immuno-compromised population while working intimately with the microbiology lab. Appropriate use of antimicrobial agents including knowledge of therapeutic vs. toxic regimens will be emphasized. Also included will be critical care management of bone marrow transplant patients and other seriously ill cancer patients.

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MDE 8326 Credit Hours: var.
Clinical Epidemiology of Infectious Diseases

This clinical rotation is structured so that the student will function as a consultant, both in epidemiology and infectious diseases. Additionally, he/she will participate in bedside consultative evaluation of patients, infection control meetings, and investigation of contagious diseases outbreaks. The progress of the student during the rotation will be monitored during daily teaching rounds by the attendings.

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MDE 8329 Credit Hours: var.
Clinical Management-Sexually Transmitted Diseases

This course is designed to enhance the student's knowledge and clinical management of diseases that may be transmitted by sexual routes. During the rotation, didactic teaching as well as clinical practicum experience will be provided. The didactic portion will include discussions of the whole spectrum of sexually transmitted diseases and their therapies.

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MDE 8342 Credit Hours: var.
Surgical Intensive Care

This is a clinical rotation that includes graded responsibility as well as regular, formal instruction in techniques of management of critical surgical illness.

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MDE 8348 Credit Hours: var.
Pulmonary Transplant

This elective integrates students into the pulmonary transplant team and the student will participate fully in the activities of this subspecialty department in both the inpatient and outpatient setting.

USF | Morsani College of Medicine | Medicine-General

MDE 8350 Credit Hours: var.
Clinical Nephrology

The objective of this elective is to expose the fourth year medical student to the broad general principles of clinical nephrology. In essence, the student will be an acting intern who will, in collaboration with the renal house staff & clinical fellows, participate in the care of patients with a variety of renal

& hypertensive problems. Adequate exposure to renal patients is achieved through inpatient consultations in the affiliated institutions & outpatient consultations and follow-up in the renal clinics & dialysis centers. The performance of the history & physical examination, formulation of plans for diagnosis & management, & the writing of orders for care of the patient will be the responsibility of the student who will function under supervision of the nephrology attendings and fellows. The student will be exposed to the practice of medicine on a broad interdisciplinary service that involves dietitians, social workers, clinical nurse specialists, as well as the attending staff.

USF | Morsani College of Medicine | Medicine-General

MDE 8381 Credit Hours: var.
Pharmacogenomics and Psychosocial Aspects of Patient Care

This course is designed to provide an understanding of the interactions between genetic inheritance, drug actions and the body's response to drugs, and to expand on personalized medicine and patient centered care that were previously encountered by the medical student in the first three years of medical school.

USF | Morsani College of Medicine | Medicine-General

MDE 8403 Credit Hours: var.
Primary Care in Pediatrics

The student is expected to improve skills of obtaining histories, performing physical examinations, and developing thorough differential diagnoses and management plans. Primary care issues are discussed daily. Each student will present a topic relevant to ambulatory pediatrics at the end of the rotation. Attendance at pediatric grand rounds and scheduled conferences is required. At the end of this rotation the student will have acquired substantial pediatric outpatient skills and confidence.

USF | Morsani College of Medicine | Medicine-General

MDE 8407 Credit Hours: var.
Elective in Child Protection

This elective is designed to provide a basic structure of child abuse pediatrics as a specialty medical practice of pediatrics and is structures primarily around inpatient, ED and outpatient clinical evaluation of child maltreatment.

USF | Morsani College of Medicine | Medicine-General

MDE 8415 Credit Hours: var.
Child Development and Behavior

The goal of this elective is to familiarize the student with the clinical aspects of child development. Participating in patient evaluations via observation & direct contact & interacting with various members of a multidisciplinary team will facilitate an understanding of the diversity of the field. Students will learn to administer basic screening tests & to assess the many aspects of development, which contribute to



diagnosis and intervention. In addition to "hands-on" training, weekly didactics will provide teaching in the basic areas of normal, delayed, and disordered child development, including neurological & genetic disorders, intellectual disability, autism, & specific learning disabilities. This elective incorporates a wide variety of clinic environments, with exposure to NICU follow-up, age birth-3 early intervention program, & the school-age population. The objectives of this elective can be met via a research track, a clinical track, or a literature review/writing track.

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MDE 8425 Credit Hours: var.
Pediatric Pulmonary Disease

This elective will involve working with a multidisciplinary team that will provide experience in the evaluation and management of acute and chronic pediatric respiratory diseases. An understanding of the basic principles of respiratory physiology and the pathophysiology of common pulmonary disorders will be emphasized.

USF | Morsani College of Medicine | Medicine-General

MDE 8432 Credit Hours: var.
Pediatric Diabetes & Metabolic Disease

This elective is designed to provide clinical exposure to children with insulin dependent diabetes as they appear in the clinic.

USF | Morsani College of Medicine | Medicine-General

MDE 8438 Credit Hours: var.
Genetics Elective

The goal of this elective is to acquaint the student with genetic disorders in pediatrics: diagnostic evaluation, differential diagnosis, inheritance, management and counseling. Students will attend genetics clinics. Students will be responsible for either the extensive work up of one new patient or see re visits as scheduled. Students will participate in inpatient consultations. Two days will be spent in the cytogenetics lab and/or the molecular genetics laboratory.

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MDE 8445 Credit Hours: var.
Pediatric Nephrology

This elective will aid students in their initial approach to pediatric renal disease, understanding the mechanisms of renal injury and evaluation and therapy of renal diseases. Tutorials are offered at least twice a week, covering topics such as proteinuria, hematuria, developmental anomalies, urinary tract infection, acute and chronic glomerulonephritis, nephrotic syndrome, acute and chronic renal failure, lupus erythematosus, hypertension, dialysis, and transplantation. Other topics may also be covered as determined by student preference.

USF | Morsani College of Medicine | Medicine-General

MDE 8454 Credit Hours: var.
Pediatric Infectious Disease

This elective in pediatric infectious disease is a clinical preceptorship with the infectious disease team. The majority of time is spent on inpatient consults. The student is exposed to all areas of the hospital since consults are answered in critical care areas, the general pediatric wards, and NICU.

USF | Morsani College of Medicine | Medicine-General

MDE 8460 Credit Hours: var.
Neonatology

The objective of this elective is the development of clinical expertise in the management of disorders of the neonate. The clinical clerk will be an integral part of the neonatal management team with participation in conferences, attending rounds and clinical care under close faculty, and neonatal fellow supervision.

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MDE 8463 Credit Hours: var.
Neonatology - All Children's Hospital

The student will directly care for several neonates in the neonatal intensive care unit of the All Children's Hospital under close supervision. In addition to daily teaching rounds, conferences include monthly combined perinatal morbidity, mortality conferences, bi-weekly radiology rounds, and several conferences each week pertaining to clinical problems in neonatology. Involvement in on-going research projects is also available with prior arrangement.

USF | Morsani College of Medicine | Medicine-General

MDE 8470 Credit Hours: var.
Child Neurology

This elective is designed to introduce students to the field of child neurology. Under the supervision of clinical faculty, students will have the opportunity to evaluate infants and children with neurological problems in outpatient clinics and hospital setting.

USF | Morsani College of Medicine | Medicine-General

MDE 8480 Credit Hours: var.
Pediatric Ophthalmology

This course is designed for students interested in ophthalmology as a career. The student will participate in the pediatric ophthalmology service. The course includes participation in pediatric ophthalmology clinics and observation of surgeries. Attendance at departmental conference will be expected and independent reading and investigation encouraged.

USF | Morsani College of Medicine | Medicine-General

MDE 8505 Credit Hours: var.
Pediatric Emergency Medicine



The pediatric emergency medicine elective is designed to give an in-depth exposure to the identification and management of acutely ill and injured children. Students are integrated into the health care team and participate directly in all aspects of patient care for medical/surgical/trauma emergencies including history, physical examination, management options, evaluation of laboratory and radiographic studies, utilization of consultants, decision making, and disposition.

USF | Morsani College of Medicine | Medicine-General

MDE 8521 Credit Hours: var.

Applied Head and Neck Anatomy

The overall goal of this course is to provide a thorough review of human head and neck anatomy from a clinical perspective, while demonstrating and enforcing the interface between clinical and foundational science, and reinforce skills of literature review and mechanistic thinking about clinical problems.

USF | Morsani College of Medicine | Medicine-General

MDE 8523 Credit Hours: var.

Dental Medicine

Students will observe dental therapy in the outpatient dental clinics, particularly on patients who need special care due to complex medical conditions. Students may be able to participate in providing direct patient care. Part of the hands-on experience may include administration of local anesthetics and non-complicated extraction of teeth under the direct supervision of our attending dentists.

USF | Morsani College of Medicine | Medicine-General

MDE 8538 Credit Hours: var.

Immunopathogenesis Rheumatologic and Dermatologic Disorder

Students will work with a clinician mentor to form a relevant question, and literature review related to the underlying immune mechanism or immune basis for the treatments of a specific rheumatologic or dermatologic disorder. The rotation will include day of clinic followed by didactics, and time for self-study to formulate a relevant question for research and presentation.

USF | Morsani College of Medicine | Medicine-General

MDE 8551 Credit Hours: var.

Cornea/External Disease

This course is designed for students interested in ophthalmology as a career. Students will participate in the cornea/external disease service. The course includes participation in cornea clinics and observation of corneal surgery. Clinical and laboratory methods used in the diagnosis and treatment of external diseases of the eye will be presented. Attendance at departmental conferences will be expected, and independent reading and investigation is encouraged. In the last week of the rotation, students are required to present and

discuss a patient they have evaluated during the course at the departmental case conference.

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MDE 8553 Credit Hours: var.

Glaucoma

This course includes participation in cornea clinics and observation of glaucoma surgery. Clinical methods used in diagnosis and treatment of glaucoma will be presented.

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MDE 8570 Credit Hours: var.

Orthopaedic Elective

Students on this rotation will experience the clinical and surgical treatment of benign and malignant disease, sports medicine injuries and trauma of the musculoskeletal system.

USF | Morsani College of Medicine | Medicine-General

MDE 8572 Credit Hours: var.

Surgery of the Hand

The objective of this elective is to expose the student to the functional and clinical anatomy, medical and surgical treatment of skeletal, integumental, muscular and neuro muscular lesions of the upper extremity. Emphasis will be placed on diagnostic and anatomical modalities.

USF | Morsani College of Medicine | Medicine-General

MDE 8580 Credit Hours: var.

Introduction to Physical Medicine and Rehabilitation

This elective will provide the medical student with a broad and comprehensive educational experience in physical medicine and rehabilitation. There will be instruction in the evaluation and rehabilitation of a wide range of medical disability conditions including musculoskeletal problems, head injuries, spinal cord injuries, strokes, amputees, chronic pain, geriatrics, and cardiac rehabilitation. In addition, students will be exposed to physical, occupational, speech, audiology, vocational, recreational, and kinesiological therapies.

USF | Morsani College of Medicine | Medicine-General

MDE 8585 Credit Hours: var.

Sports Medicine

The student in this elective will have the opportunity to work with orthopedic/sports medicine specialists, physical therapists, and certified athletic trainers. The sports medicine experience includes sports medicine clinics, hands-on field experience with a certified athletic trainer, familiarity with rehabilitation modalities at a physical therapy center, and game coverage opportunities. In addition, students might have exposure to sports for children with disabilities.

USF | Morsani College of Medicine | Medicine-General



MDE 8605 Credit Hours: var.

Vascular Surgery Elective

The student will work closely with the vascular surgery resident in preoperative, operative, and postoperative patient management and will attend outpatient clinics with full time faculty members. The student will also gain exposure to noninvasive vascular diagnosis.

USF | Morsani College of Medicine | Medicine-General

MDE 8633 Credit Hours: var.

Thoracic Surgical Oncology

The elective is designed to provide exposure to the presentation, evaluation and treatment of patients with lung and esophageal cancer as well as less frequent complex thoracic malignancies. The student will gain exposure in the operating room and become familiar with the anatomy chest and cardio-pulmonary physiology.

USF | Morsani College of Medicine | Medicine-General

MDE 8646 Credit Hours: var.

Head and Neck Oncology

This elective is designed to give medical students an experience with multidisciplinary cancer care for head and neck oncology patients.

USF | Morsani College of Medicine | Medicine-General

MDE 8675 Credit Hours: var.

Clinical Urology Elective

The elective is an introduction to basic urology with emphasis on clinical service designed to provide a background for students planning to practice in related fields.

USF | Morsani College of Medicine | Medicine-General

MDE 8680 Credit Hours: var.

Surgical Transplant Elective

Students will work under the direct supervision of the director of transplant surgery. They will gain insight and experience in the area of transplantation immunology tissue typing and the concepts of histocompatibility antigens.

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MDE 8700 Credit Hours: var.

Anesthesiology Elective

The primary objective of this course is to introduce the student to contemporary anesthesiology practice with emphasis on respiratory physiology, cardiovascular physiology, and perioperative management of the surgical patient. Preoperative evaluation and perioperative optimization of the patient's co-morbid medical conditions before anesthesia and surgery will be stressed.

USF | Morsani College of Medicine | Medicine-General

MDE 8712 Credit Hours: var.

Adult Emergency Medicine

This elective integrates clinical skills and evidence-based medicine through didactic lectures, observation, performance of clinical procedures, hands-on clinical experiences, and direct interaction with faculty, individual patients, and families. Students will manage the patient using the "team approach," which involves EMTs, nurses, physicians, and students. They are expected to evaluate patients, address their presenting complaints, initiate workups, and provide definitive therapies.

USF | Morsani College of Medicine | Medicine-General

MDE 8714 Credit Hours: var.

Toxicology

Medical toxicology is best described broadly as the field of medicine with expertise in the health effects caused by pharmaceuticals, occupational exposures and environmental agents. Medical and clinical toxicologist (non-physicians with additional training) assist in the management of medication overdoses, addiction and withdrawal states, envenomations, hazardous materials exposures and workplace hazards.

USF | Morsani College of Medicine | Medicine-General

MDE 8720 Credit Hours: var.

Outdoor Medicine Elective

This senior medical student elective is intended to teach the practical and theoretical medical skills necessary to identify, treat and prevent medical problems unique to the outdoor environment. The course is directed towards the outdoor or travel enthusiast who may find themselves in situations outside of the traditional clinical setting where they may be called upon to provide medical assistance.

USF | Morsani College of Medicine | Medicine-General

MDE 8761 Credit Hours: var.

Body Imaging

This elective is designed to introduce senior students to the practice of abdominal imaging, including ultrasound, computed tomography, magnetic resonance imaging, and interventional body procedures. During this rotation, students will spend time with faculty and housestaff at Tampa General Hospital. This elective will provide students with a better understanding of the role of cross-sectional imaging and diagnostic procedures in disorders of the abdomen and pelvis.

USF | Morsani College of Medicine | Medicine-General

MDE 8763 Credit Hours: var.

Diagnostic Radiology

This elective is designed to provide an introduction to diagnostic radiology for medical students to develop basic imaging interpretation skills for clinically important pathology and to provide a foundational knowledge of imaging algorithms for common clinical presentations.

USF | Morsani College of Medicine | Medicine-General



MDE 8766 Credit Hours: 16

Musculoskeletal Imaging

This elective is designed to introduce senior students to the practice of musculoskeletal imaging, including conventional radiography, computed tomography, magnetic resonance imaging, and imaging-guided procedures.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8768 Credit Hours: 10

Functional Psychiatric Neuroimaging

This elective is to familiarize senior students with the techniques and devices available to facilitate neuroimaging research and to learn diagnostic characteristics of psychiatric diseases.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8770 Credit Hours: var.

Vascular Radiology

Diagnostic and therapeutic methodologies in vascular radiology will be studied in this elective. The primary objective of this elective is to introduce the student to this specialized area of radiology and to help him/her evaluate the appropriateness of these techniques in patient management.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8772 Credit Hours: var.

Breast Imaging

This elective is designed to introduce medical students to the role and practice of breast imaging and intervention, including mammography, sonography, magnetic resonance imaging, and interventional breast procedures.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8780 Credit Hours: var.

Radiation Oncology

This course is designed to teach students the basic principles of radiation oncology.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8802 Credit Hours: var.

Outpatient Neurology

With the course director's assistance, the student will construct a calendar of outpatient experiences which can include any or all of the following clinics: Alzheimer's disease; brain tumor; cancer pain; epilepsy; general neurology; headache and chronic pain; independent neurological evaluation; neuro-muscular; multiple sclerosis, Parkinson's disease; and stroke.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8804 Credit Hours: 10

Senior Elective in Neurocritical Care

The elective is designed as a preceptorship under the supervision of a neurocritical care attending. The student will become an integral part of a team that specializes in the care of critically-ill neurological patients.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8806 Credit Hours: 10

Senior Elective in Movement Disorders

This elective will provide instruction in the diagnosis and treatment of movement disorders. The student will also observe a movement disorder neurosurgeon, either in the OR or in clinic, one day per week.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8809 Credit Hours: 11

Seminar in Neuropsychology

This elective is designed to provide interested senior medical students an overview of neuropsychology, clinical neuropsychiatry, and behavioral neurology.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8811 Credit Hours: var.

Integration of Brain Networks, Behavior, Therapeutics

This course is designed to provide students with basic science lectures integrating state of the art knowledge about how brain networks integrate into dimensions of behavior spanning the spectrum of health to disease, with the experimental and clinical application of therapeutic techniques.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8831 Credit Hours: var.

Outpatient Psychiatry And Primary Care

This elective is designed to provide interested students with clinical and didactic training in outpatient psychiatry. The student will have an opportunity to develop greater diagnostic and management skills in varied outpatient settings including the university psychiatry center outpatient clinic and the James A. Haley Tampa VA Hospital. Specific experiences can include the adult evaluation clinic, the memory disorders clinic, and the child evaluation clinic. An opportunity to gain increased understanding of crisis intervention in an outpatient setting at the Tampa VA Hospital is also available.

[USF | Morsani College of Medicine | Medicine-General](#)

MDE 8839 Credit Hours: 10

Neural Stimulation in Psychiatry

This elective is designed to introduce senior students to the use of various forms of neural stimulation in the treatment of psychiatric disorders.

[USF | Morsani College of Medicine | Medicine-General](#)



MDE 8842 Credit Hours: var.

Emergency Psychiatry

This elective gives the student the opportunity to participate in the evaluation, diagnosis, and the short-term treatment planning for patients in the emergency room. Under close supervision by the faculty and staff of this service, the student gains experience in interviewing, diagnosing, and managing the acute psychiatric patient.

USF | Morsani College of Medicine | Medicine-General

MDE 8852 Credit Hours: var.

Assessment and Treatment of Eating Disorders

This elective is designed to introduce senior students to the identification, evaluation, and treatment of patients with eating disorders. Students will assess eating disorder patients starting at the age of 12 and continuing into adult age ranges.

USF | Morsani College of Medicine | Medicine-General

MDE 8863 Credit Hours: var.

Memory Disorders Clinic

This elective is designed to provide interested senior medical students with an advanced experience in the evaluation and treatment of memory disorder clinic patients.

USF | Morsani College of Medicine | Medicine-General

MDE 8880 Credit Hours: var.

Forensic Psychiatry

This elective is designed to provide interested senior medical students with clinical and research experience in the field of forensic psychiatry. The student will have the opportunity to participate in forensic evaluations of adults and children.

USF | Morsani College of Medicine | Medicine-General

MDE 8900 Credit Hours: var.

Independent Study

The purpose of this elective is to provide students the flexibility of pursuing creative scholarly projects/research under the direct supervision of a mentoring faculty member. It is expected that clear goals and objectives will be established in advance of requesting approval from the department to register, and students must complete paperwork identifying these goals and objectives.

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MDE 8940 Credit Hours: var.

Integrative Clinical Skills

This elective offers fourth year medical students a review of pertinent skills for a smoother transition to internship.

USF | Morsani College of Medicine | Medicine-General

MDE 8942 Credit Hours: var.

Clinical Enrichment Elective

Faculty will work with students to design a curriculum to develop advanced proficiency in the various clinical competencies based on self-reflection of the student and the assessment of the faculty. Faculty will specifically identify, and use simulated learning, real clinical settings, study aides, and professional expertise to allow students to work on competency based clinical skills.

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MDI 8120 Credit Hours: var.

Acting Internship Family Medicine

The student is expected to function as a family medicine intern under the direct supervision of the senior resident.

USF | Morsani College of Medicine | Medicine-General

MDI 8160 Credit Hours: var.

OB/GYN Acting Internship

This acting internship is designed to introduce the senior student to the practice of OB in an active hospital based academic labor and delivery unit. Students will have the opportunity to participate in the active management of obstetrical patient care.

USF | Morsani College of Medicine | Medicine-General

MDI 8200 Credit Hours: var.

Acting Medicine Internship

Students will function as acting interns on the general ward teams. They will be given direct patient care clinical duties and responsibilities usually assigned to the first year house officer. The medical team residents and attending will closely supervise these clinical responsibilities. The level of clinical responsibilities will be distinctly above that of a third year clerkship rotation in internal medicine. Participating students will have an in depth autonomous inpatient experience so they may confidently assume such care in their PGY1 year regardless of their career choice. Mandatory attendance, excluding patient emergencies, is expected at morning report, noon conference, and grand rounds.

USF | Morsani College of Medicine | Medicine-General

MDI 8400 Credit Hours: var.

Acting Internship-Inpatient Pediatrics

The in-patient pediatric elective is presented to give the student an experience in the management of children with problems requiring hospitalization. The student will have the responsibility for the evaluation and treatment of a limited number of pediatric cases. The student will care for these patients as an acting intern in consultation with a senior member of the pediatric house staff.

USF | Morsani College of Medicine | Medicine-General

MDI 8601 Credit Hours: var.



Advanced Surgical Skills: Surgical Intern Preparedness Course

This is a one-month intensive course designed as a boot camp or intern preparedness course for students entering a surgical residency or career.

USF | Morsani College of Medicine | Medicine-General

MDI 8660 Credit Hours: var.

Plastic Surgery Acting Internship

This elective provides the opportunity to participate in the active "hands-on" care of plastic surgery patients.

USF | Morsani College of Medicine | Medicine-General

MDI 9202 Credit Hours: var.

Honors Acting Internship Program in Internal Medicine

Internal medicine internship

USF | Morsani College of Medicine | Medicine-General

MDR 8310 Credit Hours: var.

Rheumatology Research Elective

This elective will offer the student a chance to participate in rheumatology related clinical research. The areas of research include rheumatoid arthritis, reactive arthritis, psoriatic arthritis, gout, and osteoporosis.

USF | Morsani College of Medicine | Medicine-General

MDR 8605 Credit Hours: var.

Vascular Surgery Research Elective

This elective is designed to allow students an exposure to research in vascular diagnosis and fundamental problems in vascular disease. Current ongoing research projects include insite replacement of infected vascular prostheses, immune-response to bacterial biofilms, hemodynamic factors modulating myointimal hyperplasia, color duplex ultrasonography for pre- and intraoperative diagnosis, and noninvasive bypass graft surveillance. This elective provides the student with an opportunity to have hands-on experience with instrumentation which maps arterial and venous flow fields, participate in surgical procedures, and analyze the outcome of arterial reconstructions. Vascular research experience provides further development of surgical technique and diagnostic skills as well as in-depth exposure to academic medicine. Students will be expected to read and participate in one area of research with effort rewarded by co-authorship on any published data generated.

USF | Morsani College of Medicine | Medicine-General

MDR 8710 Credit Hours: var.

Research in Emergency Medicine

This course is designed to introduce students to clinical research in the emergency department.

USF | Morsani College of Medicine | Medicine-General

MDR 8840 Credit Hours: var.

Psychiatric Research

This elective is designed to enable the advanced student to become acquainted with the methodologies of behavioral medicine in basic neuroscience and their application in psychiatry and medicine. Opportunities exist in both basic science and clinical research areas including molecular genetics, neuroimmunology and cognitive medicine. Each student will participate in an ongoing research project and/or an individual tutorial during this time under faculty supervision and review and will evaluate the literature that pertains to his/her chosen topic.

USF | Morsani College of Medicine | Medicine-General

MDR 8842 Credit Hours: 0

Neuroimmunology Research in Psychiatry

This elective is designed to teach medical students basic aspects of research in Neuroimmunology. By working one on one with each student in the laboratory, the student will experience and learn the finer details of the technical aspects of experimentation.

USF | Morsani College of Medicine | Medicine-General

MDT 8200 Credit Hours: var.

Special Topics in Internal Medicine

Courses centering around topics of current interest or of special interest to students or instructors in internal medicine.

USF | Morsani College of Medicine | Medicine-General

MDT 8710 Credit Hours: var.

Special Topics in Emergency Medicine

This course number will be used for special topics in the emergency medicine field.

USF | Morsani College of Medicine | Medicine-General

MDX 8011 Credit Hours: var.

Extramural Clerkship

Externships provide students with further medical school training in an off campus setting, allowing them to gain exposure to other healthcare systems and residency programs.

USF | Morsani College of Medicine | Medicine-General

MHF 5306 Credit Hours: 3

Mathematical Logic and Foundations I

Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability.

USF | College of Arts and Sciences | Mathematics and Statistics

MHF 5405 Credit Hours: 3



History of Modern Mathematics

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.

USF | College of Arts and Sciences | Mathematics and Statistics

MHS 5020 Credit Hours: 3

Foundations of Mental Health Counseling

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.

USF | College of Behavioral and Community Sciences | Rehabilitation and Mental Health Counseling

MHS 5721 Credit Hours: 2

BRIDGE Proseminar I

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.

USF | College of Behavioral and Community Sciences | Mental Health Law and Policy

MHS 5745 Credit Hours: 3

Applied Qualitative Research Methods

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.

USF | College of Behavioral and Community Sciences | Mental Health Law and Policy

MHS 5889 Credit Hours: 2

BRIDGE Community Field Experience

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.

USF | College of Behavioral and Community Sciences | Mental Health Law and Policy

MHS 6006 Credit Hours: 3

Trends and Principles of the Counseling Profession

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.

USF | College of Education I

MHS 6065 Credit Hours: 3

Issues and Trends in Developmental Disabilities

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6067 Credit Hours: 3

Evidence-based Practices in Behavioral Health for Children and Adolescents with Developmental Disabilities

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6069 Credit Hours: 3

Child and Adolescent Behavioral Health

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6072 Credit Hours: 3

Epidemiology and Prevention in Children's Mental Health

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6095 Credit Hours: 3

Family-Centered Interdisciplinary Practice: SOC

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6097 Credit Hours: 3

Financing of Children's Mental Health Services

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6105 Credit Hours: 3
Medical Family Therapy and Integrated Healthcare

This course will evaluate the medical family therapist role in navigating the unique issues that arise in families dealing with major health challenges. It will facilitate students developing clinical skills for treating families in a medical setting.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6200 Credit Hours: 3
Assessment and Appraisal Procedures

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.

USF | College of Education I

MHS 6222 Credit Hours: 3
Assessment in Marital and Family Therapy

Examines assessment procedures and instruments utilized in Marriage and Family Therapy settings. Critical issues in diagnosing, testing, and evaluation of an individual's mental health and the family systems in which they are a part of.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6340 Credit Hours: 3
Career Development

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.

USF | College of Education I

MHS 6345 Credit Hours: 3
Family Therapy Theories and Techniques

This course covers the theory and application of intervention techniques to family systems. Students will develop skills in interviewing, assessing, treatment planning, therapeutic interventions, and observing interactions in the treatment of families.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6409 Credit Hours: 3

Evidence Based Practices in Behavioral & Community Sciences

Explores and applies strategies used to judge and identify evidence-based practices in assessment, intervention, and therapeutic practices in behavioral health and related areas.

USF | College of Behavioral and Community Sciences | Mental Health Law and Policy

MHS 6418 Credit Hours: 3
School Counselor Accountability and Curriculum

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.

USF | College of Education I

MHS 6421 Credit Hours: 3
Counseling Children

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.

USF | College of Education I

MHS 6430 Credit Hours: 3
Dynamics of Family Therapy

An overview of the contemporary models of MFT as well as the basic skills for the practice of marriage and family therapy. The biopsychosocial perspective will be explored as well as evidence-based practices in the field of MFT.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6437 Credit Hours: 3
Family Perspectives on Behavioral Health Disparities

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6450 Credit Hours: 3
Counseling Substance Abuse in School and Community

This course prepares school-based helping professionals to work with substance abuse issues, through building knowledge of the etiology of substance abuse and counseling interventions and



prevention methods amenable to schools and community settings.

USF | College of Education |

MHS 6462 Credit Hours: 3

Trauma Informed Individual, Family, and Couple Treatment

The course will address the various forms of traumatic stressors and the limitation of linear thinking in assessing and treating trauma. The utility of systemic thinking will be discussed and systems-informed practices and protocols will be explored.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6494 Credit Hours: 3

Women's Mental Health

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.

USF | College of Behavioral and Community Sciences | School of Aging Studies

MHS 6509 Credit Hours: 3

Group Counseling Theories and Practices

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.

USF | College of Education |

MHS 6601 Credit Hours: 3

Consultation for the Counseling Profession

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.

USF | College of Education |

MHS 6607 Credit Hours: 3

Behavior Consultation and Collaborative Systems Change

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6615 Credit Hours: 3

Observational Methods and Functional Assessment

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6626 Credit Hours: 3

Applied Leadership in Child and Adolescent Behavioral Health

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6645 Credit Hours: 3

Mental Health Informatics

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6701 Credit Hours: 3

Applied Behavior Analysis Basic Principles

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6706 Credit Hours: 3

Child and Adolescent Behavioral Health Policy

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6709 Credit Hours: 3

Experimental Analysis of Behavior 2

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.



USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6742 Credit Hours: 3

Community Based Research & Evaluation in Behavioral Sciences

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.

USF | College of Behavioral and Community Sciences | Mental Health Law and Policy

MHS 6744 Credit Hours: 3

Single Case Experimental Design

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6800 Credit Hours: 4

Practicum in Counseling Adolescents and Adults

Supervised counseling for integration and application of knowledge and skills gained in didactic study.

USF | College of Education I

MHS 6887 Credit Hours: 3-6

Internship in Career and College Counseling

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.

USF | College of Education I

MHS 6901 Credit Hours: 1-4

Independent Studies in Mental Health Studies

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.

USF | College of Behavioral and Community Sciences | Mental Health Law and Policy

MHS 6906 Credit Hours: 1-6

Independent Study in Behavior Analysis Applications in Community Settings

Independent study in behavior analysis provides students opportunities to focus on special areas of study under a contractual agreement with a faculty member.

USF | College of Education I

MHS 6930 Credit Hours: 1-4

Seminar in Guidance

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.

USF | College of Education I

MHS 6938 Credit Hours: 1-4

Applied Behavior Analysis in Community Settings

Addresses selected topics in behavior analysis applications in complex community environments through lecture, class discussion, and supervised special projects.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6941 Credit Hours: 3-6

Applied Field Experience Seminar

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6945 Credit Hours: 3

Leadership Practicum in Agencies Serving Children and Adolescents with Developmental Disabilities

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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 6970 Credit Hours: 2-19

Thesis: Masters/Educational Specialist

Thesis research hours under the supervision of Counselor Education faculty.

USF | College of Education I

MHS 6972 Credit Hours: 2-6

Thesis in Child and Adolescent Behavioral Health



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.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 7205 Credit Hours: 3
Functional Analysis and Function-Based Intervention

The purpose of this course is to provide advanced, in-depth instruction in functional behavior assessment and intervention planning. This course will cover indirect and direct assessment methods, including both descriptive and functional analysis.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 7610 Credit Hours: 4
Supervision: Theories and Practicum

Theory and methodology of consultation; the role of the counseling professional as consultant and as a supervisor of counselor trainees and counseling practitioners. Practice learning experiences in consulting and supervision under faculty direction.

USF | College of Education I

MHS 7720 Credit Hours: 1-3
Proseminar in Behavioral & Community Sciences

Reading, discussion, and application of topics related to professional development of doctoral students: teaching at the college level, dissertation selection and literature review processes, developing research agenda, and building professional skills.

USF | College of Behavioral and Community Sciences | Mental Health Law and Policy

MHS 7747 Credit Hours: 3
Measurement Issues in Behavioral Health Services Research and Evaluation

This course will examine the development, selection, and use of individual, program, and systems-level process and outcome measures used in behavioral health services research. The course will examine both quantitative and qualitative measurement issues.

USF | College of Behavioral and Community Sciences | Mental Health Law and Policy

MHS 7749 Credit Hours: 3
Applications in Dissemination and Implementation Science

This course covers competencies in the application of translational science necessary to understand, evaluate, and

conduct your own dissemination and implementation research in child and adolescent behavioral health.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 7926 Credit Hours: 3
College Teaching Seminar

This course is designed to teach the knowledge and skills needed to become effective college teachers. The course is designed to discuss all aspects of college teaching.

USF | College of Behavioral and Community Sciences | Child and Family Studies

MHS 7930 Credit Hours: 2
Advanced Seminar in Counselor Education

Seminar for advanced graduate students in counselor education. Issues and trends in professional counseling will be addressed.

USF | College of Education I

MMC 5146 Credit Hours: 3
Web Publishing

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MMC 6136 Credit Hours: 3
Video Storytelling 2

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MMC 6306 Credit Hours: 3
International Communications Seminar

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MMC 6415 Credit Hours: 3



Strategic Communication Media

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MMC 6421 Credit Hours: 3

Research Methods in Mass Communications

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MMC 6448 Credit Hours: 3

Qualitative Research Methods in Mass Communications

Examination of qualitative research methods in mass communications with emphasis on interviewing, observational methods, and data interpretation.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MMC 6607 Credit Hours: 3

Public Opinion and the Mass Media

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MMC 6900 Credit Hours: 1-3

Directed Reading in Mass Communications

Readings in specialized areas of mass communications as agreed to by the instructor and the student by contract.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MMC 6920 Credit Hours: 3

Introductory Mass Communications Seminar

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MMC 6945 Credit Hours: 1-3

Professional Practicum

Practicum will consist of placement with a media-related organization selected by the student and approved and supervised by the graduate advisor.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MMC 6951 Credit Hours: 3

Final Project

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

MTG 5316 Credit Hours: 3

Topology I

Topological spaces, continuity, homeomorphisms, connectedness, compact spaces, separation axioms, product spaces.

USF | College of Arts and Sciences | Mathematics and Statistics

MTG 6257 Credit Hours: 3

Differential Geometry II

A continuation of the study of graduate differential geometry, covering additional topics such as Tensor Analysis, Riemannian Geometry, Lie Groups, and Lie Algebras.

USF | College of Arts and Sciences | Mathematics and Statistics

MUC 5625 Credit Hours: 2

Jazz Composition

Private instruction in original composition.

USF | College of The Arts | School of Music

MUC 6444 Credit Hours: 3

Electronic Music/Analog/Digital Systems Research I

State-of-the-art compositional and performance applications; new concepts of electronic music synthesis; documentation and critical analysis of new repertory.

USF | College of The Arts | School of Music

MUC 6448 Credit Hours: 3

Electronic Music: Computer Music Research

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.

USF | College of The Arts | School of Music

MUC 6930 Credit Hours: 2

Seminar in Jazz Compositional Styles

A seminar study of the major compositional figures in jazz. Oriented toward the continuing development of students' own writing ability.

USF | College of The Arts | School of Music

MUE 6097 Credit Hours: 2

Music, Medicine, and Myths

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.

USF | College of The Arts | School of Music

MUE 6336 Credit Hours: 3

Advanced Techniques and Research in Vocal/Choral Music Education

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.

USF | College of The Arts | School of Music

MUE 6428 Credit Hours: 6

Learner-Centered Approaches in Music Education I

This course is the introductory experience for the Master of Arts in Music Education degree program at the University of South Florida.

USF | College of The Arts | School of Music

MUE 6648 Credit Hours: 3

Techniques and Research in Alternate Music Education Methods

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.

USF | College of The Arts | School of Music

MUE 6785 Credit Hours: 3

Research Design and Methods in Music Education

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.

USF | College of The Arts | School of Music

MUE 6788 Credit Hours: 3

Research Data Collection in Music Education

This course is designed to assist the student in developing research skills focused upon data collection and analysis of data in music education.

USF | College of The Arts | School of Music

MUE 6906 Credit Hours: 1-6

Independent Study: Music Education

Independent study in which students must have a contract with an instructor.

USF | College of The Arts | School of Music

MUE 6971 Credit Hours: 2-19

Thesis: Masters/Educational Specialist

USF | College of The Arts | School of Music

MUE 7786 Credit Hours: 3

Qualitative Methods of Music Education

This course is designed to acquaint students with foundations, methods, and applications of qualitative research in education and music education.

USF | College of The Arts | School of Music

MUE 7816 Credit Hours: 3

Music Cognition

Interdisciplinary approach to music perception, performance, and cognition. Discussion of neuroanatomy, auditory physiology, cognitive psychology, music perception, and music understanding, and their applications to music teaching and learning.

USF | College of The Arts | School of Music

MUE 7855 Credit Hours: 2

International Perspectives in Music Education

A critical examination of music education in various nations from social, cultural, political, and philosophical perspectives.

USF | College of The Arts | School of Music

MUE 7937 Credit Hours: 2-3

Special Topics in Music Education

This course will provide an opportunity to examine selected topics in the research of choral, instrumental, general, and alternative music instruction models.

USF | College of The Arts | School of Music



MUE 7980 Credit Hours: 2-19

Dissertation

USF | College of The Arts | School of Music

MUG 6307 Credit Hours: 2

Advanced Wind Conducting I

Combination of lecture, seminar, laboratory and individual instruction experiences designed to provide development of advanced conducting skills.

USF | College of The Arts | School of Music

MUG 6309 Credit Hours: 2

Advanced Orchestral Conducting I

Introduction to graduate-level advanced orchestral conducting techniques, including score study and rehearsal techniques, with an emphasis on classroom applications.

USF | College of The Arts | School of Music

MUG 6930 Credit Hours: 3

Advanced Choral Techniques

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.

USF | College of The Arts | School of Music

MUH 6376 Credit Hours: 3

The History of Blues and Rock

A study of the history of rock music: the essence of its musical language, its roots, evolution, styles, influences, social/cultural context, etc.

USF | College of The Arts | School of Music

MUL 6410 Credit Hours: 2

Keyboard Repertory I

A study of style, history, and performance practice in keyboard repertory including masterworks of all periods.

USF | College of The Arts | School of Music

MUL 6505 Credit Hours: 3

Symphonic Literature

A chronological study of the development of orchestral music; analysis and study of major works from a stylistic and biographical perspective.

USF | College of The Arts | School of Music

MUL 6565 Credit Hours: 2

Chamber Music Literature

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.

USF | College of The Arts | School of Music

MUL 6655 Credit Hours: 3

Choral Literature 1500-1800

A study and analysis of choral music from 1500-1800.

USF | College of The Arts | School of Music

MUL 6671 Credit Hours: 2

Opera Literature

A chronological study of the development of opera from 1600 to the present; emphasis on the technical, stylistic, and performance aspects of opera.

USF | College of The Arts | School of Music

MUN 6135 Credit Hours: 1

Symphonic Band

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.

USF | College of The Arts | School of Music

MUN 6215 Credit Hours: 1

University Orchestra

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.

USF | College of The Arts | School of Music

MUN 6345 Credit Hours: 1

Chamber Singers

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.

USF | College of The Arts | School of Music

MUN 6416 Credit Hours: 1

String Quartet

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.

USF | College of The Arts | School of Music

MUN 6435 Credit Hours: 1

Brass Choir



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.

USF | College of The Arts | School of Music

MUN 6445 Credit Hours: 1
Percussion Ensemble

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.

USF | College of The Arts | School of Music

MUN 6455 Credit Hours: 1
Piano Ensemble

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.

USF | College of The Arts | School of Music

MUN 6715 Credit Hours: 1
Jazz Ensemble

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.

USF | College of The Arts | School of Music

MUO 6505 Credit Hours: 1
Opera Workshop

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.

USF | College of The Arts | School of Music

MUS 6525 Credit Hours: 3
Computer Applications in Music Education

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.

USF | College of The Arts | School of Music

MUS 6806 Credit Hours: 2
Fit to Play: Mind-Body Integration for Musicians

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.

USF | College of The Arts | School of Music

MUS 6910 Credit Hours: 1-19
Directed Research

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.

USF | College of The Arts | School of Music

MUS 6976 Credit Hours: 2
Graduate Recital

USF | College of The Arts | School of Music

MUT 6575 Credit Hours: 3
Analysis of Twentieth Century Music

An in-depth examination of representative works. Students will learn analytical techniques such as set theory and 12-ton 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.

USF | College of The Arts | School of Music

MUT 6629 Credit Hours: 3
Schenkerian Analysis

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.

USF | College of The Arts | School of Music

MUT 6751 Credit Hours: 3
Teaching of Music Theory

Comparative study of teaching, techniques, procedures, and materials used in teaching visual and aural theory.

USF | College of The Arts | School of Music

MVB 5251 Credit Hours: 2-4
Applied Trumpet

Private and class instruction.

USF | College of The Arts | School of Music

MVB 5253 Credit Hours: 2-4
Applied Trombone

Private and class instruction.

USF | College of The Arts | School of Music

MVB 5255 Credit Hours: 2-4
Applied Tuba



Private and class instruction.

USF | College of The Arts | School of Music

MVB 6452 Credit Hours: 4

Applied French Horn

Required of all applied music majors. Private and class instruction.

USF | College of The Arts | School of Music

MVB 6454 Credit Hours: 4

Applied Euphonium

Required of all applied music majors. Private and class instruction.

USF | College of The Arts | School of Music

MVJ 5250 Credit Hours: 2

Applied Jazz Piano Secondary

Private and class instruction.

USF | College of The Arts | School of Music

MVJ 5254 Credit Hours: 2

Applied Jazz Bass Secondary

Private and class instruction.

USF | College of The Arts | School of Music

MVJ 5951 Credit Hours: 2

Applied Jazz Performance

Private and class instruction.

USF | College of The Arts | School of Music

MVJ 6463 Credit Hours: 4

Applied Jazz Guitar

Private and class instruction.

USF | College of The Arts | School of Music

MVJ 6469 Credit Hours: 4

Applied Jazz Percussion

Private and class instruction.

USF | College of The Arts | School of Music

MVK 5251 Credit Hours: 2-4

Applied Piano

Private and class instruction.

USF | College of The Arts | School of Music

MVK 6650 Credit Hours: 2

Graduate Piano Pedagogy I

Emphasis on techniques used in teaching the individual student in performance.

USF | College of The Arts | School of Music

MVP 5251 Credit Hours: 2-4

Applied Percussion, Secondary

Required of all applied music majors. Private and class instruction.

USF | College of The Arts | School of Music

MVS 5251 Credit Hours: 2-4

Applied Violin

Private and class instruction.

USF | College of The Arts | School of Music

MVS 5253 Credit Hours: 2-4

Applied Cello

Private and class instruction.

USF | College of The Arts | School of Music

MVS 6451 Credit Hours: 4

Applied Violin

Required of all applied music majors. Private and class instruction.

USF | College of The Arts | School of Music

MVS 6453 Credit Hours: 4

Applied Violoncello

Required of all applied music majors. Private and class instruction.

USF | College of The Arts | School of Music

MVV 5251 Credit Hours: 2-4

Applied Voice

Private and class instruction.

USF | College of The Arts | School of Music

MVV 6652 Credit Hours: 2

Voice Pedagogy

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.

USF | College of The Arts | School of Music

MVW 5252 Credit Hours: 2-4

Applied Oboe

Private and class instruction.

USF | College of The Arts | School of Music



MVW 5254 Credit Hours: 2-4

Applied Bassoon

Private and class instruction.

USF | College of The Arts | School of Music

MVW 6451 Credit Hours: 4

Applied Flute

Required of all applied music majors. Private and class instruction.

USF | College of The Arts | School of Music

MVW 6453 Credit Hours: 4

Applied Clarinet

Required of all applied music majors. Private and class instruction.

USF | College of The Arts | School of Music

MVW 6455 Credit Hours: 4

Applied Saxophone

Required of all applied music majors. Private and class instruction.

USF | College of The Arts | School of Music

NGR 6002C Credit Hours: 4

Advanced Health Assessment Across the Lifespan

Development of advanced clinical skills in assessing and maintaining the health of individuals across the life span through history taking, physical examinations, and diagnostic/therapeutic procedures.

USF | College of Nursing | Nursing

NGR 6060 Credit Hours: 1

Medical Laboratory Interpretation for the Advanced Practice Nurse

Interpretation of common medical laboratory results for the Advanced Practice Nurse with focus on the differential diagnosis.

USF | College of Nursing | Nursing

NGR 6080 Credit Hours: 3

Family and Population-Based Health Promotion

Focuses on the assessment of family and population groups for the purpose of planning, implementing, and evaluating nursing interventions for health promotion, health maintenance, and disease and injury prevention.

USF | College of Nursing | Nursing

NGR 6140 Credit Hours: 4

Pathophysiology for Advanced Practice

Central concepts of pathophysiology: embryologic origins, cells, tissues, organs, and systems. Provides essential knowledge base in pathophysiology across the life span for advanced nurse practice nurses.

USF | College of Nursing | Nursing

NGR 6146 Credit Hours: 4

Pathophysiology/Pharmacology for the Advanced Generalist Nurse

Course will focus on what is currently known about the pathophysiology of commonly seen diseases with updates in pharmacology. A case study approach will be used.

USF | College of Nursing | Nursing

NGR 6157 Credit Hours: 4

Advanced Physiology and Pharmacology for Nurse Anesthetists

This course focuses on the advanced principles of pharmacology and human physiology with an emphasis on integrating these principles in nurse anesthesia practice.

USF | College of Nursing | Nursing

NGR 6172 Credit Hours: 4

Pharmacotherapeutics for Advanced Practice Nursing

Provides knowledge and skills required for integration and application of pharmacotherapy across the lifespan. Principles of pharmacodynamics and pharmacokinetics for major drug classifications and rational drug selection are emphasized.

USF | College of Nursing | Nursing

NGR 6202C Credit Hours: 6

Primary Care of Adults II

Didactic basis and practical experience for diagnosing and managing chronic health problems of the adult; emphasis on compiling and analyzing data, developing and implementing a plan; integrating health promotion and maintenance throughout course.

USF | College of Nursing | Nursing

NGR 6207C Credit Hours: 6

Health Management of Adults and Older Adults I

This course focuses on the knowledge and skills required for assessment, diagnosis, and management of common acute health problems and initial management of selected common chronic health problems across the adult lifespan.

USF | College of Nursing | Nursing



NGR 6210 Credit Hours: 4

Clinical Management of the Acutely Ill Adult

Students will learn to manage commonly encountered chronic episodic health problems in adults and older adults. The course will review the spectrum of care from stabilizing the patient's condition to preventing complications and restoring maximum health.

USF | College of Nursing | Nursing

NGR 6210L Credit Hours: 3

Clinical Management of the Acutely Ill Adult Clinical

Students will learn to manage commonly encountered chronic episodic health problems in adults and older adults. The course will review the spectrum of care from stabilizing the patient's condition to preventing complications and restoring maximum health.

USF | College of Nursing | Nursing

NGR 6211C Credit Hours: 7

Acute Care of Adults and Older Adults: Special Topics

This course focuses on both theoretical and clinical knowledge of topics of special interest to the Acute Care, Adult-Gerontologist Primary Care Nurse Practitioner. A variety of teaching strategies will be utilized.

USF | College of Nursing | Nursing

NGR 6215 Credit Hours: 3

Primary Care: Adult Health Management

Focus on high risk, vulnerable adult patients/clients across the life span with complex, multi-system health problems. The course covers the assessment, management and continuity of care for individuals with these complex, acute and chronic health problems.

USF | College of Nursing | Nursing

NGR 6221 Credit Hours: 3

Oncology Nursing Concepts

Provides advanced oncology nursing content with a focus on nursing management of physical problems resulting from cancer and its treatment. (CI)

USF | College of Nursing | Nursing

NGR 6223L Credit Hours: 3

Practicum II in Advanced Oncology Nursing

Clinical experiences in advanced oncology nursing focused on the application of theoretical and conceptual knowledge relevant to adults with cancer or at risk; development of diagnostic skills, clinical management and interdisciplinary collaboration.

USF | College of Nursing | Nursing

NGR 6225 Credit Hours: 2

Oncology Special Topics

USF | College of Nursing | Nursing

NGR 6232C Credit Hours: 7

Selected Concepts in the Acutely Ill Adult

This course focuses on engaging family and surrogate decision-makers in realistic goal setting while supporting physiologic function in acutely and critically ill adults and older adults.

USF | College of Nursing | Nursing

NGR 6234 Credit Hours: 1

Reproductive Health for the Middle Aged to Older Adult

This course provides the knowledge and skill required to promote reproductive health. The emphasis is on evidence-based practice in the assessment, diagnosis, and management of reproductive health conditions in middle aged to older adults.

USF | College of Nursing | Nursing

NGR 6244 Credit Hours: 3

Health Management of Adults and Older Adults II

This course focuses on the knowledge and skills required for assessment, diagnosis, and management of common chronic health problems across the lifespan and the unique care needs of selected adult populations.

USF | College of Nursing | Nursing

NGR 6244L Credit Hours: 3

Health Management of Adults and Older Adults II Clinical

This is the clinical component that focuses on the knowledge and skills required for assessment, diagnosis, and management of common chronic health problems across the lifespan and the unique care needs of selected adult populations.

USF | College of Nursing | Nursing

NGR 6291C Credit Hours: 6

Health Management of Adults and Older Adults: Special Topics

Focuses on selected theoretical, clinical, business, and practical knowledge and skills relevant to the Adult-Gerontology Nurse Practitioner role. Management of patients with complex care needs and/or multi-system diseases are emphasized.

USF | College of Nursing | Nursing

NGR 6301 Credit Hours: 3



Primary Care of Children and Adolescents I

Primary care of children and adolescents focusing on assessment, diagnosis, and management of common acute and behavioral problems. Emphasis is placed on wellness, clinical prevention, growth and development.

USF | College of Nursing | Nursing

NGR 6301L Credit Hours: 3

Primary Care of Children and Adolescents I Clinical

Clinical course that focuses on the primary care of children and adolescents focusing on assessment, diagnosis, and management of common acute and behavioral problems. Emphasis is placed on wellness, clinical prevention, growth and development.

USF | College of Nursing | Nursing

NGR 6302C Credit Hours: 6

Primary Care of Children and Adolescents II

Focus will be on primary care of chronic disease management in children and adolescents. Emphasis will be placed on disease impact affecting patient and family health outcomes.

USF | College of Nursing | Nursing

NGR 6305L Credit Hours: 2-3

Primary Care Practicum: Children

Application of knowledge gained in the classroom in PC: Children to the patient/client population between birth and pre-adolescent years. Screening, health maintenance, and management of health problems will make-up the clinical experiences.

USF | College of Nursing | Nursing

NGR 6339C Credit Hours: 6

Primary Care of Children and Adolescents: Special Topics

Theoretical and clinical knowledge of topics of special interest to the Primary Care Pediatric Nurse Primary Care Practitioner.

USF | College of Nursing | Nursing

NGR 6342 Credit Hours: 1

Reproductive Health for the Young to Middle Aged Adult

This course provides the knowledge and skill required to promote reproductive health. The emphasis is on evidence-based practice in the assessment, diagnosis, and management of reproductive health conditions in young to middle-aged adults.

USF | College of Nursing | Nursing

NGR 6400 Credit Hours: 3

Chemistry, Biochemistry and Physics for Nurse Anesthesia

This course examines the laws and principles of inorganic chemistry, organic chemistry and physics as they apply to pharmacology and the clinical practice of nurse anesthesia. Restricted to majors.

USF | College of Nursing | Nursing

NGR 6420 Credit Hours: 4

Foundations & Methods of Nurse Anesthesia Practice

Focuses on the fundamentals of nurse anesthesia practice and techniques. This course also focuses on the development of didactic knowledge for regional anesthesia and advanced nurse anesthesia practice.

USF | College of Nursing | Nursing

NGR 6423 Credit Hours: 3

Theoretical Foundations of Nurse Anesthesia: Advanced Principles I

This course explores neuraxial anesthetic approaches to include spinal, epidural, and caudal anesthesia and the performance of peripheral nerve blocks of the upper and lower extremities.

USF | College of Nursing | Nursing

NGR 6431 Credit Hours: 1

Nurse Anesthesia Clinical Residency I

This course focuses on clinical application of didactic material from the nurse anesthesia curriculum through beginning level practice in the role of a nurse anesthetist.

USF | College of Nursing | Nursing

NGR 6433 Credit Hours: 4

Nurse Anesthesia Clinical Residency III

This course focuses on clinical application of didactic material from the nurse anesthesia curriculum through an advanced beginner level of practice in the role of a nurse anesthetist.

USF | College of Nursing | Nursing

NGR 6435 Credit Hours: 3

Nurse Anesthesia Clinical Residency V

This course focuses on clinical application of didactic material from the nurse anesthesia curriculum through a proficient student level of practice in the role of a nurse anesthetist.

USF | College of Nursing | Nursing

NGR 6440L Credit Hours: 2

Nurse Anesthesia Simulation Lab I: Introduction to Clinical Practicum

This course will introduce basic anesthesia skills and procedures allowing hands-on practice and return



demonstration of various techniques required for entry into clinical practice for the student nurse anesthetist.

USF | College of Nursing | Nursing

NGR 6442L Credit Hours: 1
Nurse Anesthesia Simulation Lab III: Special Procedures

This course will allow for repetitive, hands-on practice of anesthetic procedures and techniques for the cardiac, thoracic, vascular, neurologic, and trauma surgical patient with an emphasis on anesthesia management.

USF | College of Nursing | Nursing

NGR 6470 Credit Hours: 3
Assessment, Radiology, and Psychology of Pain

Designed to examine the theoretical & clinical knowledge needed to make proper assessments & diagnoses in regards to the chronic pain patient. It also examines the importance of the psychological aspect of pain for proper diagnosis & treatment.

USF | College of Nursing | Nursing

NGR 6472 Credit Hours: 3
Pharmacology of Pain Management

This course is designed to review the commonly used analgesic medications in pain management clinical practice. It also reviews chemical dependency, addiction, and professional responsibilities associated with high risk medications.

USF | College of Nursing | Nursing

NGR 6474C Credit Hours: 3
Pain Management Clinical Residency

This course focuses on clinical application of didactic material regarding advanced pain management with an emphasis on assessment, diagnosis, and treatment.

USF | College of Nursing | Nursing

NGR 6492 Credit Hours: 3
Nurse Anesthesia Role: Practice Management, Quality Improvement, and Patient Safety

This course provides knowledge and skills required for professional role development as a CRNA, advanced nursing and health care practice management at organizational or systems level and in leading quality improvement and patient safety initiatives.

USF | College of Nursing | Nursing

NGR 6500L Credit Hours: 1-6
Psychiatric APN Practicum: Psychiatric Care Outpatient

Clinical experience in advanced psychiatric mental health nursing that focuses on comprehensive mental health assessment, crisis intervention and brief psychotherapy.

USF | College of Nursing | Nursing

NGR 6501L Credit Hours: 1-4
Psychiatric APN Practicum: Psychiatric Care in the Inpatient Setting

Clinical experience in in-patient settings with selected acute and chronic populations. Emphasis on the role of the psychiatric APN working with individuals, groups and families conducting comprehensive mental health in the inpatient setting.

USF | College of Nursing | Nursing

NGR 6538 Credit Hours: 3
Psychopharmacology

Provide advanced knowledge of psychobiological information with the use of psychopharmacological interventions in patients. Focus will be on pharmacokinetics and clinical management including prescription of medications for psychiatric disorders.

USF | College of Nursing | Nursing

NGR 6613C Credit Hours: 5
Health Management of Families: Special Topics

Theoretical and clinical knowledge of topics of special interest to the Family Nurse Primary Care Practitioner. A variety of teaching strategies will be utilized.

USF | College of Nursing | Nursing

NGR 6638 Credit Hours: 3
Health Promotion, Clinical Prevention, and Population Health for Advanced Practice Nurses

Provides knowledge and skills required for planning, implementing, and evaluating evidence-based health promotion and clinical prevention services for individuals and families across the lifespan and for populations.

USF | College of Nursing | Nursing

NGR 6650L Credit Hours: 1
Clinical Experiences in Occupational Health Nursing I

Clinical experiences at selected worksites to apply content from [[permalink=1463|tooltip:{{title:1}}]title%[[/permalink]] with an emphasis on analysis of the workplace and worker aggregates, occupational health nurse(s) roles/functions.

USF | College of Nursing | Nursing

NGR 6651L Credit Hours: 1



Clinical Experiences in Occupational Health II

Clinical experiences relative to the application of content in Occupational Health Nursing II with a focus on workplace assessment utilizing a comprehensive instrument and evaluation of worker's compensation managed care programs.

USF | College of Nursing | Nursing

NGR 6653 Credit Hours: 3

Occupational Health Nursing IV

Focuses on the management of psychosocial factors in the occupational setting; examples of occupational health and safety programs; environmental health; research; and professional issues related to occupational and environmental health nursing.

USF | College of Nursing | Nursing

NGR 6691 Credit Hours: 3

Counseling for the Terminally Ill

Provides specialized psychological and psychosocial content with a focus on the principles and techniques for conducting psychosocial counseling with terminally ill patients.

USF | College of Nursing | Nursing

NGR 6700L Credit Hours: 2-3

APN Transitions Practicum

Clinical concentration in the intended area of practice for the graduating Advanced Practice Nurse (APN). Focus on applying integrated knowledge to provide collaborative comprehensive care. By Permit Only.

USF | College of Nursing | Nursing

NGR 6713 Credit Hours: 3

Foundations of Nursing Education

This course focuses on the philosophical, theoretical and evidence-based approaches for nursing education programs. Emphasis is on role of the nurse educator and curriculum development.

USF | College of Nursing | Nursing

NGR 6719 Credit Hours: 3

Clinical Case Studies in Nursing Education

Serves as a vehicle for nursing education students to increase their clinical knowledge and skills in a selected area of specialty through analysis of common health problems. A case study format will be used.

USF | College of Nursing | Nursing

NGR 6733 Credit Hours: 3

Organizational and Systems Leadership and Quality Improvement for Advanced Practice Nurses

Provides knowledge and skills required for organizational and systems leadership and interprofessional collaboration in the design and implementation of change to improve health care delivery and health outcomes.

USF | College of Nursing | Nursing

NGR 6770C Credit Hours: 1

Introduction to the Clinical Nurse Leader Role

Concepts essential for the students' development into a Clinical Nurse Leader, focusing on the CNL role, communication, leadership and assessing the practice environment. Clinical assignments are designed to assist them in developing the CNL role.

USF | College of Nursing | Nursing

NGR 6773L Credit Hours: 5

CNL Residency

Residency practice in the role of the Clinical Nurse Leader.

USF | College of Nursing | Nursing

NGR 6800 Credit Hours: 3

Nursing Research

Research designs and methods for nursing with primary emphasis on these topics: critique of research studies, researchable problems, research designs, instruments and other data collection methods, approaches to data analyses using computer applications, and preparation of research proposals for thesis, directed research, or funded research.(CI)

USF | College of Nursing | Nursing

NGR 6821 Credit Hours: 3

Applied Analysis for Outcomes Research Using Large Healthcare Databases

Focus on knowledge discovery in clinical domains by exploring large nursing and healthcare databases for the purposes of outcomes research or quality improvement. Emphasis on theoretical models and methods of analysis, providing experimental computer applications with large healthcare databases.

USF | College of Nursing | Nursing

NGR 6872C Credit Hours: 1

Concepts in Information Management

Emphasis on health information technologies that puts knowledge at the point of care to promote safe and high quality healthcare outcomes. Clinical component focuses on data that support decision making.

USF | College of Nursing | Nursing



NGR 6893 Credit Hours: 3

Systems and Populations in Healthcare

Analysis of critical issues in health care delivery and population health; overview of design and structure of U.S. health care system; issues of cultural diversity, health disparities, and social justice; and healthcare systems outcomes management.

USF | College of Nursing | Nursing

NGR 6905 Credit Hours: 1-6

Directed Independent Study

Specialized individualized study determined by students' needs and interests; requires an approved contract with a faculty member. (CI). Restricted to majors; repeatable for credit.

USF | College of Nursing | Nursing

NGR 6929 Credit Hours: 1

Clinical Correlational Conferences

This course is designed to complement each clinical residency; these conferences will discuss clinical experience, morbidity and mortality utilizing current research.

USF | College of Nursing | Nursing

NGR 6940 Credit Hours: 2

Classroom/Online Teaching Practicum

Provides knowledge and experience in the application of teaching strategies in the classroom and online settings.

USF | College of Nursing | Nursing

NGR 6947 Credit Hours: 2

Clinical Education/Clinical Practice Practicum in Nursing Education

This course provides knowledge and guided experiences for student development of the dual roles of advanced practice clinician and nurse educator in selected patient care/educational settings.

USF | College of Nursing | Nursing

NGR 6971 Credit Hours: 1-9

Thesis: Master's

Restricted to majors; repeatable for credit.

USF | College of Nursing | Nursing

NGR 7061 Credit Hours: 1

Radiology for the Advanced Practice Nurse

Basics of X-ray, MRI, CT Scan Interpretation and Nuclear Medicine Studies for the Advanced Practice Nurse.

USF | College of Nursing | Nursing

NGR 7103 Credit Hours: 3

Evidence-Based Practice

Provides experience in the evaluation, selection and implementation of evidence based practice standards. Qualitative research methods are used to consider patient and provider values and preferences in patient care and practice/program evaluation.

USF | College of Nursing | Nursing

NGR 7111 Credit Hours: 3

Disciplinary Perspectives in Nursing Science

Historic and philosophic issues in science and nursing science. Development of scientific knowledge base and scientific progress in nursing. Emphasis on emerging areas of nursing science.

USF | College of Nursing | Nursing

NGR 7124 Credit Hours: 3

Advances in Nursing Science

Focus on history and philosophy of science: history and development of nursing's scientific knowledge base and theoretical progress. Emphasis methods of theory building and theory testing through research. Explore progress in middle range theories and areas of high priority for additional research for the discipline.

USF | College of Nursing | Nursing

NGR 7126 Credit Hours: 3

Intervention Development

Theory and methodology underpinning of the development of behavior change interventions with emphasis on individual human behavior change. In-depth exploration of tested interventions are used to highlight process, implementation, and evaluation.

USF | College of Nursing | Nursing

NGR 7161 Credit Hours: 3

Complementary and Integrative Health: State of the Science

Reviews scientific evidence of recognized complementary and integrative health modalities: mind-body, manipulative, natural product, and energy therapy. The scientific biological and psychological mechanisms of action for health care are explored.

USF | College of Nursing | Nursing

NGR 7209 Credit Hours: 3

Diagnostic Reasoning

This course provides practice in analyzing data and making effective clinical decisions. Students will practice diagnostic reasoning using the health history, physical examination, and diagnostic tests to create a prioritized differential diagnosis.

USF | College of Nursing | Nursing



NGR 7761 Credit Hours: 1

Breast Workshop for the Advanced Practice Nurse

Breast assessment techniques and interpretation for Advanced Practice Nurse.

USF | College of Nursing | Nursing

NGR 7763 Credit Hours: 1

Minor Surgical Procedures for the Advanced Practice Nurse

Basics of minor surgical procedures for the Advanced Practice Nurse.

USF | College of Nursing | Nursing

NGR 7765 Credit Hours: 1

Invasive Medical Procedures for the Advanced Practice Nurse

Basics of invasive medical procedures for the Advanced Practice Nurse.

USF | College of Nursing | Nursing

NGR 7767 Credit Hours: 3

Practice Management, Quality Improvement, and Patient Safety

This course provides knowledge and skills required for successful advanced nursing and health care practice management at the organizational or systems level and for leading quality improvement and patient safety initiatives.

USF | College of Nursing | Nursing

NGR 7811 Credit Hours: 3

Concepts in Nursing Practice

Emphasis on analysis of phenomena (concepts) that impact on nursing practice. Phenomena are selected and analyzed from theoretical and research perspectives.

USF | College of Nursing | Nursing

NGR 7813 Credit Hours: 3

Design, Measurement, and Analysis in Nursing Research III

This course focuses on knowledge and mastery of a wide range of analytical principles and methods that are routinely used and critical for designing and conducting research studies, including disseminating research results in nursing science.

USF | College of Nursing | Nursing

NGR 7815 Credit Hours: 3

Qualitative Research Methods

This course focuses on the design of qualitative research studies, which includes observational studies, focus groups,

interviews, and textual analysis from various documents and/or social media.

USF | College of Nursing | Nursing

NGR 7819 Credit Hours: 3

Randomized Controlled Trials for Non-Pharmacological Interventions

Provides instruction on randomized controlled trials (RCTs) of non-pharmacological interventions, with emphasis on behavioral treatment development, their role in evidence-based clinical practice and in clinical care guidelines.

USF | College of Nursing | Nursing

NGR 7828 Credit Hours: 3

Data Management in Health Research

This course focuses on concepts and practical methods to plan data collection strategy, implement data collection processes, store data, and disseminate data in health research.

USF | College of Nursing | Nursing

NGR 7838 Credit Hours: 3

Innovative Programs in Symptom Management Research

This course provides the foundation to the study of symptom science with a focus on theoretical models, critical analyses of research literature related to selected symptoms, and design and measurement issues.

USF | College of Nursing | Nursing

NGR 7841 Credit Hours: 3

Statistical Methods in Nursing Research I

This course focuses on basic analytical principles: level of measurement, descriptive statistics, hypothesis testing, tests of difference and regression.

USF | College of Nursing | Nursing

NGR 7843 Credit Hours: 3

Statistical Methods in Nursing Research III

This course is designed to teach students advanced regression models including multilevel models (linear mixed models), survival analysis and multiway frequency analysis. Both theories and software implementations of these models will be covered.

USF | College of Nursing | Nursing

NGR 7848 Credit Hours: 3

Fundamentals of Statistics for Clinicians

An overview of the statistical methods typically used in clinical research including the language and logic of these methods. Fundamental statistical theory and common nursing applications are covered.

USF | College of Nursing | Nursing



NGR 7881 Credit Hours: 2

Responsible Conduct of Nursing Research

An analysis of contemporary core issues relating to responsible conduct of research designed to enable critical reasoning and encourage best practices in the conduct of nursing research.

USF | College of Nursing | Nursing

NGR 7905 Credit Hours: 1-6

Directed Readings

USF | College of Nursing | Nursing

NGR 7916 Credit Hours: 3

Grant Writing for Translational Science

Prepares individuals to develop a grant application in their area of research. The critical elements of the NIH grant application including the Specific Aims, and Research Strategy are presented along with additional required components.

USF | College of Nursing | Nursing

NGR 7932 Credit Hours: 1-4

Special Topics

Seminars for the analysis and discussion of selected issues in nursing of topical concern to student and faculty.

USF | College of Nursing | Nursing

NGR 7934 Credit Hours: 1

Pre-Qualifying Exam Seminar II

This biweekly pre-qualifying exam seminar provides students with an opportunity to develop ideas and collaborative relationships to develop their own work innovatively that leads to advances in nursing science.

USF | College of Nursing | Nursing

NGR 7939 Credit Hours: 1

Doctoral Seminar II

This biweekly post-qualifying exam seminar provides students with an opportunity to develop ideas and collaborative relationships to develop their own work innovatively that leads to advances in nursing science.

USF | College of Nursing | Nursing

NGR 7942 Credit Hours: 1-9

Educational Leadership Residency

This residency provides the nurse educator with opportunities to acquire a distinct specialty of advanced nursing practice leadership. Experiences will be developed to assist in development of the dnp essentials and specialty competencies.

USF | College of Nursing | Nursing

NGR 7951 Credit Hours: 3

Scientific Writing - Writing for Publication

This course focuses on the development of a scholarly empirical manuscript or technical report of publishable quality.

USF | College of Nursing | Nursing

NGR 7974 Credit Hours: 1-3

Doctor of Nursing Practice Project

This course provides for synthesis and application of knowledge and skills acquired in previous courses through the development, implementation, and evaluation of a practice improvement project.

USF | College of Nursing | Nursing

NGR 7981 Credit Hours: 2

Dissertation Proposal Writing

Selected topics pertaining to the dissertation proposal writing process, dissertation research planning and funding, and proposal defense. PR: CI or Ph.D. GS; completion of majority of required course work.

USF | College of Nursing | Nursing

OCB 6068 Credit Hours: 3

Fish Biology

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.

USF | College of Marine Science | Marine Science

OCB 6626 Credit Hours: 3

Dynamics of Marine Ecosystems

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.

USF | College of Marine Science | Marine Science

OCB 6716 Credit Hours: 3

Population Dynamics

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.

USF | College of Marine Science | Marine Science

OCC 6057 Credit Hours: 3

Marine Pollution

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.

USF | College of Marine Science | Marine Science

OCC 6111C Credit Hours: 3

Applications of Gas Chromatography and Mass Spectrometry in Marine Science

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.

USF | College of Marine Science | Marine Science

OCE 6048 Credit Hours: 1-4

Scientist in the Classroom

Provides students with a theoretical framework, practical knowledge, and skills required to successfully design, implement, and evaluate effective science teaching and learning.

USF | College of Marine Science | Marine Science

OCE 6565 Credit Hours: 3

Applied Multivariate Statistics

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.

USF | College of Marine Science | Marine Science

OCE 6609L Credit Hours: 1

Data Analysis Programming

This optional lab to the Data Analysis Methods class is designed for students with no background in a programming language. The lab will introduce students to the basics of programming necessary for the main class.

USF | College of Marine Science | Marine Science

OCE 6921 Credit Hours: 2

Professional Development I

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.

USF | College of Marine Science | Marine Science

OCE 6940C Credit Hours: 1-4

Experiential Learning in Marine Science

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.

USF | College of Marine Science | Marine Science

OCE 6950 Credit Hours: 1-4

Teaching the Broader Impacts of Ocean Sciences

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.

USF | College of Marine Science | Marine Science

OCE 6972 Credit Hours: 1-19

Directed Research

USF | College of Marine Science | Marine Science

OCE 7980 Credit Hours: 2-19

Dissertation: Doctoral

USF | College of Marine Science | Marine Science

OCG 6080 Credit Hours: 3

Plate Tectonics

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.

USF | College of Marine Science | Marine Science

OCG 6656C Credit Hours: 3

Marine Micropaleontology

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

USF | College of Marine Science | Marine Science

OCG 6668 Credit Hours: 3

Evolution and Ecology of Reefs

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.

USF | College of Marine Science | Marine Science

ORI 5930 Credit Hours: 3

Topics in Performance Genres

Variable topics course.

USF | College of Arts and Sciences | Communication



ORI 6020 Credit Hours: 3

Performing Social Resistance

Explores performance as a site of and means for creating social resistance and change.

USF | College of Arts and Sciences | Communication

ORI 6250 Credit Hours: 3

Performance and Technology

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.

USF | College of Arts and Sciences | Communication

ORI 6506 Credit Hours: 3

Performance Criticism

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.

USF | College of Arts and Sciences | Communication

PAD 5035 Credit Hours: 3

Issues in Public Administration and Public Policy

Selected issues and topics in Public Administration and Public Policy.

USF | College of Arts and Sciences | School of Public Affairs

PAD 5605 Credit Hours: 3

Administrative Law and Regulation

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.

USF | College of Arts and Sciences | School of Public Affairs

PAD 5807 Credit Hours: 3

Urban and Local Government Administration

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.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6041 Credit Hours: 3

Ethics and Public Service

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.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6060 Credit Hours: 3

Public Administration Theory

Examination of major theoretical and practical developments in public administration with focus on organization theory and current research trends in the field.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6134 Credit Hours: 3

Project Management

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.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6207 Credit Hours: 3

Public Financial Administration

Examination of the fiscal organization of federal, state, and local governments. Current problems in budgeting, revenue, and indebtedness are considered.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6222 Credit Hours: 3

Issues in Florida--Budgeting and Finance

Selected issues in public financial management and budgeting related to state agencies or local governments in Florida.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6231 Credit Hours: 3

Resource Development: Fundraising and Grantsmanship

Administration and management of the fundraising process; principles, skills, methods, and techniques. Administration and management of the grantsmanship process.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6307 Credit Hours: 3

Policy Design and Implementation

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.

USF | College of Arts and Sciences | School of Public Affairs



PAD 6336 Credit Hours: 3
Community Development Programs and Strategies

Discusses community development principles and practices in historical and contemporary perspectives, federal, state and local initiatives, physical, social, and economic approaches to community development.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6339 Credit Hours: 3
Housing and Public Policy

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.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6417 Credit Hours: 3
Human Resources Management

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.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6703 Credit Hours: 3
Quantitative Analysis in Public Administration

Techniques, models, to analyze managerial/policy problems. Descriptive, inferential, associational statistics; evaluate/make recommendations/alternative policy/decisions.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6717 Credit Hours: 3
GIS Applications for Urban Management

Provides a basic introduction to the use of Geographic Information Systems (GIS) for urban decision makers. No prior knowledge of GIS is assumed.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6909 Credit Hours: 3
Problem Report

Analysis of a significant administrative or policy problem facing a public agency or manager.

USF | College of Arts and Sciences | School of Public Affairs

PAD 6934 Credit Hours: 1-3
Selected Topics in Public Administration

A flexible format to offer specialized courses not available within the regular curriculum.

USF | College of Arts and Sciences | School of Public Affairs

PAS 5101 Credit Hours: 6

Advanced Internal Medicine Clinical Rotation

The six-week advanced internal medicine rotation is designed to expose the physician assistant student to providing care that is compassionate, appropriate, and effective for the treatment of the health problems of critically ill patients.

USF | Morsani College of Medicine | Dean's Office

PAS 6002 Credit Hours: 1

Cultural Issues in Healthcare

This course will provide the student with an enhanced appreciation of cross-cultural factors that can influence health and disease practices across a wide range of cultural groups. Students will explore the cultural variables impacting the delivery of health promotion and disease prevention programs and services for specific ethnic groups and in diverse communities. Students will develop an understanding of the importance of providing care to patients with diverse values, beliefs, and behaviors, including tailoring delivery to meet patients' social, cultural, and linguistic needs.

USF | Morsani College of Medicine | Dean's Office

PAS 6004 Credit Hours: 1

Clinical Problem Solving/Differential Diagnosis

This class will apply the knowledge, skills, and attitudes learned across the curriculum to individual patient cases. This course integrates evidence-based medicine into clinical decision-making.

USF | Morsani College of Medicine | Dean's Office

PAS 6007 Credit Hours: 2

Clinical Skills and Procedures

This course is designed to introduce students to essential procedures and skills necessary for primary care practice such as phlebotomy; injection techniques; splinting; suturing and more. Students will participate in advanced cardiac life support and pediatric advanced life support certification training during this course.

USF | Morsani College of Medicine | Dean's Office

PAS 6010 Credit Hours: 4

Human Physiology

This course will provide students with the fundamental knowledge of human physiology that will serve as an essential foundation for their future professional studies. The physiology of all organ systems will be covered.

USF | Morsani College of Medicine | Dean's Office

PAS 6012 Credit Hours: 5

Clinical Medicine II

This course teaches medical decision making by integrating the epidemiology, risk factors (including genetics, as applicable), pathophysiology, signs and symptoms, history and physical



findings, laboratory and diagnostic tests, differential diagnosis, therapeutic management, possible complications, prevention measures, prognosis, patient education and follow-up of emergent and non-emergent disorders encountered in primary care across the lifespan.

USF | Morsani College of Medicine | Dean's Office

PAS 6021 Credit Hours: 1
Biostatistics and Epidemiology

The course combines the basic principles of research design, formulating an answerable question, searching for an answerable question, and fundamentals of biostatistics in a classroom setting with an opportunity to apply these concepts in small groups as they work through the diagnostic reasoning process using patient cases presented in a problem based learning format.

USF | Morsani College of Medicine | Dean's Office

PAS 6023 Credit Hours: 3
Clinical Pharmacology I

The first semester of a two-semester overview of pharmacology. The course will focus on the principles of pharmacologic action, and the therapeutic indications for pharmaceutical preparations used in clinical medicine.

USF | Morsani College of Medicine | Dean's Office

PAS 6026 Credit Hours: 3
Clinical Pharmacology II

The second semester of a two-semester overview of pharmacology. The course will focus on the principles of pharmacological action, and the therapeutic indications for pharmaceutical preparations used in clinical medicine.

USF | Morsani College of Medicine | Dean's Office

PAS 6029 Credit Hours: 3
Pathophysiological Basis of Disease II

The essentials of diagnosis and management of the most common clinical problems seen by primary care practitioners. Using an organ systems and life stages approach, clinical information is presented in conjunction with appropriate correlative lectures.

USF | Morsani College of Medicine | Dean's Office

PAS 6032 Credit Hours: 1
Clinical Laboratory and Diagnostics II

This course is the second of a two part series where the student receives instruction in medical laboratory and radiographic studies used in the diagnosis and management of common disorders of the major body systems. It also provides the rationale for the selection, utilization and interpretation of clinical laboratory, imaging and other diagnostic tests used to evaluate each systems' principle functions.

USF | Morsani College of Medicine | Dean's Office

PAS 6035 Credit Hours: 1
Basic Medical Genetics

The course covers basic principles of genetics, and the application of these principles in primary care physician assistant clinical practice. The discussions include the basic structure and behavior of genes, the human genome, the role of genetics in medicine, genetic basics of human disease, and application of genetic science to cancer, genetics in clinical medicine for diagnosis, treatment, and ethical considerations.

USF | Morsani College of Medicine | Dean's Office

PAS 6037 Credit Hours: 2
Physical Diagnosis II

This course provides further instruction in the art and technique of patient interviewing, relationship building, and physical diagnosis skills. Throughout the course, the student will continue to develop a systems-based approach to performing a full physical examination.

USF | Morsani College of Medicine | Dean's Office

PAS 6050 Credit Hours: 1
Role of the Physician Assistant in American Healthcare

This course will examine the history, current issues, and future trends of physician assistant practice. Emphasis is placed upon the inception, history, and evolution of the PA profession throughout the fields of medicine and surgery, PA relationships with the supervising physician and patient, and responsibilities including the concepts of privilege, confidentiality and informed consent.

USF | Morsani College of Medicine | Dean's Office

PAS 6052 Credit Hours: var.
Business of Medicine

This course is designed to cover the major aspects of managing both public and private health care organizations. These aspects include managing external relationships with key stakeholders like patients and providers, understanding the individual and group dynamics that occur within health care delivery settings, and applying the business and emerging tools used in managing on an everyday basis in health care delivery settings.

USF | Morsani College of Medicine | Dean's Office

PAS 6100 Credit Hours: 4
Internal Medicine Clinical Rotation

During the six-week internal medicine rotation, physician assistant students become a part of an internal medicine practice caring for adult and geriatric patients.

USF | Morsani College of Medicine | Dean's Office

PAS 6126 Credit Hours: 6
Mental Health Care Clinical Rotation



Six-week rotation with an opportunity to develop skills in the evaluation and treatment of patient's suffering from behavioral and/or psychiatric medical conditions in the confines of a behavioral medicine hospital or outpatient clinic.

USF | Morsani College of Medicine | Dean's Office

PAS 6200 Credit Hours: 4

Surgery Clinical Rotation

This six-week general surgery rotation allows the student to develop preoperative skills with verbal or written presentations to the preceptor. They will be exposed to routine and emergency surgical problems. The student will assist in the operating room.

USF | Morsani College of Medicine | Dean's Office

PAS 6400 Credit Hours: 4

Family Medicine Clinical Rotation

The twelve-week family medicine clinical rotation provides students with experience refining their skills in performing history and physical exams, ordering and interpreting laboratory/diagnostic tests, synthesizing information in establishing diagnosis.

USF | Morsani College of Medicine | Dean's Office

PAS 6600 Credit Hours: 4

Emergency Medicine Clinical Rotation

This six-week rotation allows the student to develop skills in managing patients in the emergency room setting. These skills include those necessary for appropriate triage, stabilization, and initial management of patients with traumatic injuries, illness.

USF | Morsani College of Medicine | Dean's Office

PAS 6940 Credit Hours: 4

Selective Clinical Rotation

This four-week elective clerkship clinical course provides exposure to an area of clinical medicine in which a student has particular interest. Students may choose additional experience in an area covered in required rotations or select a subspecialty, such as orthopedics, cardiology, or geriatrics.

USF | Morsani College of Medicine | Dean's Office

PCB 5307 Credit Hours: 3

Limnology

An introduction to the physical, chemical, and biological nature of fresh-water environments. Lecture only.

USF | College of Arts and Sciences | Integrative Biology

PCB 5616 Credit Hours: 3

Molecular Phylogenetics

Provides a theoretical (lecture) and practical (computer lab) framework to allow students to carry out phylogenetic analysis using molecular data.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

PCB 6107 Credit Hours: 4

Advanced Cell Biology

Detailed examination of the structure, function and molecular biology of eukaryotic cells.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

PCB 6230 Credit Hours: 3

Cancer Biology I - Basics of Molecular Oncology

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.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

PCB 6236 Credit Hours: 4

Advanced Immunology

Discussion of the basic immune reaction, nature of antigenicity; basic immunological techniques and their use in biological research and the medical sciences. Lec/Lab.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

PCB 6281 Credit Hours: 4

Cancer Immunotherapy

This course is focused on understanding applied immunology and the use of immunotherapeutic approaches to eliminate cancer.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

PCB 6365C Credit Hours: 4

Physiological Ecology

Effect of environmental factors on animal function at the cellular and organ system level with emphasis on control and mechanism.

USF | College of Arts and Sciences | Integrative Biology

PCB 6447 Credit Hours: 3

Community Ecology

In-depth examination of community ecology with emphasis on diversity, stability, trophic structure and the mechanisms which affect how communities are structured.

USF | College of Arts and Sciences | Integrative Biology

PCB 6456C Credit Hours: 4

Biometry



An introduction to statistical procedures for research in biological sciences. Experimental design, analysis of data, and presentation of results are emphasized. Lec./Dis.

USF | College of Arts and Sciences | Integrative Biology

PCB 6525 Credit Hours: 3

Molecular Genetics

Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on proteins and cellular control.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

PCB 6556 Credit Hours: 3

Conservation Genetics

This course is an introduction to theory and methods in conservation genetics, including techniques used to sample and analyze the genetic diversity of populations and to identify and manage threatened and endangered plant and animal populations.

USF | College of Arts and Sciences |

PCB 6920 Credit Hours: 1

Advances in Cell and Molecular Biology

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.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

PCB 6931 Credit Hours: 2

Advances in Cancer Biology Research

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.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

PCB 6934 Credit Hours: 2

Advances in Cancer Chemical Biology

Students review and orally present current breaking research in chemical biology focused on applications for cancer research. Presentations require critical evaluation of the published data. Students also receive critique on presentation skills.

USF | College of Arts and Sciences | Cell Biology, Microbiology, and Molecular Biology

PCB 6939 Credit Hours: 1-3

Seminar in Ecology

A detailed examination of topics in ecology pertaining to individual organisms, populations, communities and/or ecosystems.

USF | College of Arts and Sciences | Integrative Biology

PET 5769 Credit Hours: 3

Principles and Issues in Coaching

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.

USF | College of Education |

PET 6085 Credit Hours: 3

Body Composition: Assessment and Management

This course covers advanced principles of body composition assessment and management. The role of physical activity and medical intervention will be considered.

USF | College of Education |

PET 6098 Credit Hours: 3

Topics in Strength and Conditioning

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.

USF | College of Education |

PET 6235 Credit Hours: 3

Motor Learning

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.

USF | College of Education |

PET 6317 Credit Hours: 3

Applied Biomechanics

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.

USF | College of Education |

PET 6388 Credit Hours: 3

Physical Activity, Health, and Disease

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.

USF | College of Education |



PET 6396C Credit Hours: 1-4
Specialized Study in Bio-Kinetics of Human Movement

Will provide in-depth study in specific areas related to neurological, physiological, and mechanical principles of human development.

USF | College of Education I

PET 6425 Credit Hours: 3
Curriculum and Instructional Process in Physical Education

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.

USF | College of Education I

PET 6444 Credit Hours: 3
Instructional Design and Content: Dance and Gymnastics

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.

USF | College of Education I

PET 6494 Credit Hours: 3
Legal Aspects of Physical Activity

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.

USF | College of Education I

PET 6525L Credit Hours: 3
Laboratory Techniques in Exercise Science

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.

USF | College of Education I

PET 6542 Credit Hours: 3
Grant Writing

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.

USF | College of Education I

PET 6706 Credit Hours: 3

Analysis of Research in Physical Education
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.

USF | College of Education I

PET 6802 Credit Hours: 3
Effective Teaching and Classroom Management in Physical Education

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.

USF | College of Education I

PET 6910L Credit Hours: 1-4
Research Project in Physical Education

In-depth research study of selected topics concerning human movement. Topics will vary according to needs and interests of student.

USF | College of Education I

PET 6971 Credit Hours: 1-5
Thesis: Physical Education

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.

USF | College of Education I

PGY 5619 Credit Hours: 3
Photojournalism I

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.

USF | College of The Arts | School of Art and Art History

PHA 6114C Credit Hours: 3
Drug Delivery Systems I

Fundamental biological and physio-chemical principles important for the formulation, preparation, stability, and performance of pharmaceutical dosage forms (compounding) and various advanced drug delivery systems. A weekly laboratory session of three hours is included to provide students the opportunity to apply learned principles.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6118 Credit Hours: 3



Nanomaterials, BioMEMS, and Nanodevices in Medicine

Covers control of materials at a micro-/nano-scale (new polymer-based drug delivery systems for anticancer agents, specialized devices for minimally invasive surgery, remote sensors & cell sorting systems w/ high-throughput data collection).

USF | Taneja College of Pharmacy | Pharmacy

PHA 6124 Credit Hours: 3 Principles of Pharmacokinetics and Pharmacodynamics I

Provides a fundamental understanding of the concepts and principles underlying the discipline of pharmacokinetics and pharmacodynamics, including data analysis, dosage regimen design, determinants of ADME and study of concentration response relationships.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6130C Credit Hours: 3 Translational Pharmacogenomics - Principles and Clinical Applications

Translational pharmacogenomics is designed as an introduction to the theory and practice of pharmacogenomics which are central to the personalized medicine paradigm. The course aims to provide students with the concepts and tools needed to interpret, analyze, and evaluate pharmacogenomics information. The goal is to enable students to gain a clear understanding of how genetic variations contribute to susceptibility to drug response and to incorporate this knowledge into routine clinical care.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6147 Credit Hours: 3 Nanotechnology and Risk Management

An introduction into theory with simultaneous laboratory experience for instrumentation in nano-medicine, nanotechnology, and nano-pharmaceutics as well as risk management associated with nano production.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6177C Credit Hours: 3 Advanced Compounding and Industrial Pharmacy

Advanced formulations design, development and application in real world. Develop niche in the area of specialized compounding practices serving the needs of special population groups including geriatric patients and veterinary compounding.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6186 Credit Hours: 4 Innovations in Bio-Pharmaceuticals

This course gives students an overview of Innovations in Bio-Pharmaceuticals in life science and global health. In particular biopharmaceutical processing from discovery to development phases, and pharmaceutical sciences.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6188 Credit Hours: 3 New Drug Review: The Nexus of Basic Science and Clinical Practice

This course is focused on integrating pharmaceutical sciences with the practice of clinical pharmacy, while improving technical communication skills.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6222 Credit Hours: 3 Pharmacy Practice Management

Provides students with practical knowledge to enable them to function as pharmacy leaders and managers with competence in several key areas.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6224 Credit Hours: 2 Pharmaceutical Debates on Recent Issues Affecting the Profession

The course aims at providing an opportunity for students in the third professional year to discuss and debate critical issues affecting the pharmacy profession. Students will also learn to write a publication-quality paper and develop a presentation poster.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6233C Credit Hours: 3 Jurisprudence

This course provides students with the essential concepts of pharmacy law, enabling them to practice pharmacy in compliance with federal and state statutes, rules, and regulations, as well as equipping them with the knowledge to pass the MPJE. Additionally, students receive an overview of federal and state government, agencies, health law topics, advocacy, ethics, and the policy process.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6245 Credit Hours: 3 Pharmaceutical Informatics

Discuss the applications of computers to the storage, retrieval and analysis of drug and prescription information. In addition, the application of bioinformatics or chemoinformatics to drug discovery and development will be covered.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6270 Credit Hours: 2 Healthcare and Medication Safety



This course will introduce and reinforce principles of human error and patient safety within healthcare settings. The students will engage in activities that analyze, discuss, and provide recommendations for solutions to patient safety problems. Students will have opportunities to conduct an incident investigation, gain an understanding of the advantages and limitations of error reporting, learn how to disclose errors and adverse events, and learn models for improving safety in various health care settings. Classes are designed to provide students with hands-on skills in systems thinking and in preventing, learning from, and dealing with medical error and adverse events.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6336 Credit Hours: 3
Tissue Engineering and Regenerative Medicine
How materials interact with cells through their micro- and nanostructure, mechanical properties degradation characteristics, surface chemistry and biochemistry. Principles of tissue engineering, design strategies for practical applications for tissue repair.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6428C Credit Hours: 2
Advanced Topics in Metabolic Syndrome Treatment

This course will explore advanced topics in the assessment and treatment of patients with metabolic syndrome, defined as hypertension, diabetes/insulin resistance, and hyperlipidemia. Mastery on the understanding of vascular inflammatory pathways, vascular complications, understanding laboratory values, pharmacotherapy for treatment, and key patient education points will be covered. Students will experience a combination active learning of lecture, online courses, and live patient encounters.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6451 Credit Hours: 2
Clinical Biochemistry
This course will provide a comprehensive study of the field of Clinical Biochemistry.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6562 Credit Hours: 4
Physiologic Basis of Disease
This course entails the study of disease at molecular, cellular, and organ levels. It provides a foundation for understanding the etiologies and pathogenesis of diseases. It facilitates the interpretation of the changes induced by stimuli, correlating the microscopic and macroscopic changes with the manifestations of diseases and ultimately with a diagnosis. The knowledge gained from the study of these mechanisms will form the basis for therapeutic approaches, drug interaction and dependence.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6577 Credit Hours: 4
Biochemical and Molecular Principles of Drug Action

This course will focus on principles of pharmacology with application to physiologic function. Emphasis on receptor recognition, drug structure, pharmacology, organ systems, signaling, adverse effects of medications, and physical chemical properties.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6598 Credit Hours: 2
Current Perspectives in Mental Health

The purpose of this clinical elective is to introduce the student to the mental health system, emphasizing the role of a pharmacist in the treatment of individuals with mental illnesses. Students will gain further knowledge of psychiatric pharmacotherapy, beyond knowledge acquired in previous pharmacotherapeutics courses.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6603C Credit Hours: 3
Internal Medicine Elective

This elective provides in-depth exposure to patient care in the acute care setting. Students will review relevant disease states, individualizing treatment regimens based on patient-related variables, and applying concepts to case-based scenarios.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6618 Credit Hours: 3
Principles of Geriatric Medicine

Prepares future health professionals to address the needs of their older patients expanding student understanding of psychosocial and communication issues exposing participants to cross-cultural issues in health care.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6621 Credit Hours: 6
Graduate Program Internship in Pharmaceutical Sciences

This course is dedicated for the completion of an internship in an approved pharmacy industry, institute or center. Students will apply knowledge and skills gained in academic coursework to a real-world work setting.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6628 Credit Hours: 2
Introduction to Post Graduate Residency Training

This is an elective course designed to provide students an in-depth knowledge of postgraduate pharmacy residency training so that they are prepared to seek and obtain a residency position upon graduation. Topics to be covered include benefits



of residency training, types of residency programs available, requirements to achieve a residency training certificate, application requirements, composing a letter of intent, curriculum vitae, choosing a residency program and interviewing for residency.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6708 Credit Hours: 3

Teaching in Pharmacy

This course provides direct instruction in the field of academia specifically in the role of pharmacy faculty focusing on essential skills for effective classroom and laboratory teaching in the 21st century.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6740 Credit Hours: 2

Grant Writing and Clinical Research

This course encompasses factors involved in the development of a research proposal and selection of grant funding sources. The evaluative processes of clinical research, grant development, and funding of the proposal will also be discussed and practiced.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6756 Credit Hours: 3

Bioengineering and Nanotherapeutic Approaches

This course provides an overview of modern bioengineering in life science and global health. It will emphasize the applications of bioengineering within applied biotechnology, nanotechnology, and microbiology from agricultural systems to public health.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6771C Credit Hours: 2

Clinical Nutrition in Pharmacy Practice

This course is designed to prepare pharmacy students to function as members of an interdisciplinary nutritional support team who will share responsibility for promoting maintenance and/or restoration of optimal nutrition status. This course will focus on internal and parenteral nutrition with an emphasis on nutritional guidelines, drug nutrient interactions, and disease state specific nutritional needs.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6782C Credit Hours: 5

Pharmacotherapeutics I

Pharmacotherapeutics is an integrated course sequence utilizing medicinal chemistry, pharmacology, and pharmacy practice faculty. The over-arching goal of the sequence is to review and discuss the applied principles of pharmacotherapy/patient management following an organ system process to include cardiovascular, pulmonary, endocrine, and gastrointestinal systems.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6784C Credit Hours: 5

Pharmacotherapeutics III

Pharmacotherapeutics is an integrated course sequence utilizing medicinal chemistry, pharmacology and pharmacy practice faculty. The overarching goal of this semester is to review and discuss the applied principles of pharmacotherapy and patient management following an organ system process to include infectious diseases, hematology, oncology, and renal disease.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6787C Credit Hours: 5

Pharmacotherapeutics IV

Pharmacotherapeutics is an integrated course sequence utilizing medicinal chemistry, pharmacology and pharmacy practice faculty. The overarching goal of the sequence is to review and discuss the applied principles of pharmacotherapy/patient management following an organ system process to include critical care, nutrition, pediatrics, solid organ transplant, and drug induced diseases.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6795 Credit Hours: 3

Research Methods and Biostatistics

This course focuses on the advanced application of scientific literature evaluation, to include the assessment of appropriateness of study design, performed statistical analysis, and clinical applications to pharmacy practice.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6804C Credit Hours: 2

Pharmaceutical Calculations

Accurate pharmacy calculations enhance patient care in all areas of pharmacy practice. This course serves as an introduction to the clinical role calculations play in patient safety. Students will learn the direct application of their previous math and chemistry skills to the human body. Calculations will encompass different approaches to measurement including the metric, avoirdupois, and traditional apothecary systems. Course topics will include specific gravity/volume, percentage and ratio.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6871C Credit Hours: 3

Pharmaceutical Skills II

The pharmaceutical skills sequence serves dual functions; the first is to allow integration and application of materials learned during the semester, the second is to address key professional competencies.

USF | Taneja College of Pharmacy | Pharmacy



PHA 6873C Credit Hours: 3

Pharmaceutical Skills IV

Integration of the principles of Pharmacotherapeutics II, Pharmacokinetics/Pharmacodynamics II, and Geriatric Pharmacotherapy will provide students with the opportunity to develop patient specific care plans for patients with neurologic, psychiatric, and musculoskeletal diseases as well as men's/women's health. Other activities will emphasize informatics and technology, the impact of medication errors on patient safety, and interprofessional education initiatives.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6875C Credit Hours: 3

Pharmaceutical Skills VI

Integration of the principles of Pharmacotherapeutics IV will provide students with an opportunity to develop and monitor patient specific care plans in order to optimize therapeutic outcomes for patients with critical care, pediatric, nutritional, toxicology, and solid organ transplant disorders. Other activities will emphasize the patient-centered application of health policy, literature evaluation, and inpatient medication therapy management as well as introduce basic principles of health systems administration. Interprofessionalism will also be emphasized through simulated activities with medical and nursing students.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6879 Credit Hours: 2-3

Death and Dying for Healthcare Professionals

This course will undoubtedly be a daily theme for which healthcare professionals must be prepared to face. To best serve the needs of patients, this course will focus on the historical, cultural, and procedural issues related to a wide range of loss.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6898 Credit Hours: 3

Foundations of Public Health

This course provides the student with an introduction to public health. It covers the basic definition of public health, the analytical methods used in public health, the biomedical basis of public health, the social and behavioral factors related to health interactions, and environmental and medical care issues. Students will also learn about the relationship between public health and pharmacy, and the role of the pharmacist as it relates to Healthy People 2020 goals and objectives.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6915C Credit Hours: 1

Pharmacy Longitudinal Research Project

Application of research principles through a longitudinal research project under direction of an approved mentor.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6935 Credit Hours: 1-5

Special Topics in Pharmacy

Special topics for discussion and analysis related to Pharmacy.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6945 Credit Hours: 1

IPPE Community Pharmacy Practice I

Introductory Pharmacy Practice Experience in Community Pharmacy is a structured course in which students will meet with an assigned community pharmacist for 15 consecutive weeks for the fall semester. Students will practice pharmacy under supervision while demonstrating and reinforcing skills taught in didactic course work. Upon completion of the course, the student should be knowledgeable about the basic functions of a pharmacist in a community pharmacy practice setting.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6947 Credit Hours: 4

IPPE - Institutional Pharmacy Practice I

This course gives pharmacy students experience with basic distributive and administrative processes in patient care while interacting with patients, preceptor(s), technicians, and other pharmacy personnel in the institutional/hospital setting.

USF | Taneja College of Pharmacy | Pharmacy

PHA 6952 Credit Hours: 3

Graduate Program Capstone in Pharmacy

This course provides up-to-date, most advanced information about Pharmaceutical Nanotechnology from subject matter experts; (ie: lab methods, assignments, equipment & specializations). Students will create and present their final projects in this class.

USF | Taneja College of Pharmacy | Pharmacy

PHA 7626 Credit Hours: 6

Advanced Health-System Pharmacy Practice Experience

The goal of the advanced health-system pharmacy practice experience is to provide opportunities for students to build on knowledge and skills acquired through didactic education and introductory pharmacy practice experiences and apply them in direct patient care experiences.

USF | Taneja College of Pharmacy | Pharmacy

PHA 7644 Credit Hours: 6

Geriatrics Patient Care Pharmacy Practice Experience

The goal of the geriatrics patient care advanced pharmacy practice experience is to provide opportunities for students to build on knowledge and skills acquired through didactic education and introductory pharmacy practice experiences and apply them in the care of a specialized patient population.



USF | Taneja College of Pharmacy | Pharmacy

PHA 7692 Credit Hours: 6

Advanced Ambulatory Pharmacy Practice Experience

The goal of the ambulatory care advanced pharmacy practice experience is to provide opportunities for students to build on knowledge and skills acquired through didactic education and introductory pharmacy practice experiences and apply them in direct patient care activities in the ambulatory care setting. This course takes place in an ambulatory care, multidisciplinary practice setting. Practice sites may include hospital-based clinics, physician group practices, community, and others.

USF | Taneja College of Pharmacy | Pharmacy

PHA 7928 Credit Hours: 1

Professional Forum

The focus of professional forum is to reinforce knowledge and skills learned throughout the curriculum by integrating didactic, pharmacy practice, and career preparation.

USF | Taneja College of Pharmacy | Pharmacy

PHC 5933 Credit Hours: 1-3

Special Topics

Provides students the opportunity to learn about the multiple ways to view controversial topics in public health. It covers current public health topics including biomedical issues, social and behavioral factors, and environmental issues.

USF | College of Public Health | Dean's Office

PHC 6002 Credit Hours: 3

Infectious Disease Epidemiology

The course help students to understand epidemiological patterns, etiology and risk factors of infectious diseases as they occur in populations, rather than in individual patients. Familiarity with epidemiological terminology and biostatistics is required.

USF | College of Public Health | Dean's Office

PHC 6007 Credit Hours: 3

Cancer Epidemiology

The course will consider the extent of the cancer problem, present the epidemiology of the major cancer sites, including those of the respiratory, digestive and reproductive systems, and evaluate the potential for primary and secondary preventive efforts.

USF | College of Public Health | Dean's Office

PHC 6010 Credit Hours: 3

Epidemiology Methods I

This course is designed to cover the important concepts in epidemiology and their application in epidemiological research.

Emphasis on measures and quantitative techniques, proper interpretation and explanation of quantitative measures and results.

USF | College of Public Health | Dean's Office

PHC 6020 Credit Hours: 3

Clinical Trials: Design, Conduct, and Analysis

The course will familiarize students with the issues in the design, conduct, and analysis of clinical trials. Factors involved in randomization, sample size and power, missing data, RCT data analysis, reporting and interpreting RCT findings.

USF | College of Public Health | Dean's Office

PHC 6035 Credit Hours: 3

Comorbidity of Mental and Physical Disorders

This course examines the comorbidity of mental and physical disorders, taking a lifespan epidemiological approach. Emphasis is placed upon theories and empirical research elucidating comorbidities, risk factors, and mechanisms.

USF | College of Public Health | Dean's Office

PHC 6042 Credit Hours: 3

Methods in Pharmacoepidemiology

Methods in pharmacoepidemiology will introduce the concepts of pharmacoepidemiology and expose students to the approaches in designing studies and analyzing pharmacoepidemiology data.

USF | College of Public Health | Dean's Office

PHC 6050 Credit Hours: 3

Biostatistics I

Concepts, principles, and methods of statistics applied to public health issues.

USF | College of Public Health | Dean's Office

PHC 6053 Credit Hours: 3

Categorical Data Analysis

Study of techniques used in analyzing data where subjects have been cross-classified by two or more categorical variables. Special emphasis given to problems frequently arising in epidemiology, public health, and medicine.

USF | College of Public Health | Dean's Office

PHC 6057 Credit Hours: 3

Biostatistical Inference I

This course is primarily designed for students majoring in Biostatistics, emphasis is given to understanding and mastering of biostatistical theory and methods such as probability distribution, expectations, estimation and hypothesis testing.

USF | College of Public Health | Dean's Office



PHC 6061 Credit Hours: 3

Biostatistical Case Studies and Collaboration II

This course prepares students to join an active biostatistical analyst of a multidisciplinary research groups. This collaborative role requires knowledge of successful grant writing and review, site visits, and formal presentations of analytical results. Special issues in collaborating research at a distance are discussed. The biostatistical methodology and theory pertaining to collaborative research projects chosen by the students covered in formal lectures.

USF | College of Public Health | Dean's Office

PHC 6081 Credit Hours: 3

Intermediate SAS in Epidemiology

This course is a fast-paced SAS language class for: (1) students majoring in epidemiology or biostatistics and (2) others intending to, as a substantial component of their careers, use SAS.

USF | College of Public Health | Dean's Office

PHC 6096 Credit Hours: 3

Fundamentals of Probability

Designed for students majoring in Biostatistics; emphasis is given to understanding and mastering of biostatistical theory and methods such as probability distribution and expectations.

USF | College of Public Health | Dean's Office

PHC 6104 Credit Hours: 3

Management of Public Health Programs

Application of principles and methods for organization and management of government and non-government public health programs.

USF | College of Public Health | Dean's Office

PHC 6108 Credit Hours: 3

Foundations of Public Health

This course provides the student with an introduction to public health, the public health system, and the role of the public health professional and the pharmacist as it relates to Healthy People 2020 goals and objectives.

USF | College of Public Health | Dean's Office

PHC 6120 Credit Hours: 3

Community Partnerships and Advocacy

Designed to familiarize students with key aspects of developing partnerships among private and public sector organizations for the purposes of assessing and improving the health of communities. Particular skills include coalition development, developing a constituency/partnerships, advocacy, team building, and leadership.

USF | College of Public Health | Dean's Office

PHC 6145 Credit Hours: 3

Translation to Public Health Practice

Designed to prepare students to translate core public health concepts and principles into real-world public health practice. This course is designed to provide students with hands-on experience pertaining to translation of core public health concepts and principles.

USF | College of Public Health | Dean's Office

PHC 6147 Credit Hours: 3

Managing Quality in Health Care

Study of methods and tools for managing quality in health facilities, physician practices, managed care and public health; including developments in quality assurance and improvement, utilization review, risk management, and patient satisfaction.

USF | College of Public Health | Dean's Office

PHC 6151 Credit Hours: 3

Health Policy and Politics

This course will examine the role of federal, state, and local government in health care organization, delivery, and financing in the United States and other comparable industrial nations.

USF | College of Public Health | Dean's Office

PHC 6161 Credit Hours: 3

Health Finance Applications

The development and application of skills in finance, costing, and capitol decision making relevant to health care management.

USF | College of Public Health | Dean's Office

PHC 6180 Credit Hours: 3

Health Services Management

Advanced study of specific topics in health care organization management including the managerial process, organizational theory, resource utilization and control, and human resource management.

USF | College of Public Health | Dean's Office

PHC 6183 Credit Hours: 3

Overview of United States and International Emergency/Disaster Management

Public Health and other professionals will be given an overview of the disaster management process. Provides terms, definitions, and concepts of emergency management from a local, national, and international perspective.

USF | College of Public Health | Dean's Office

PHC 6185 Credit Hours: 3

Emergency/Disaster Preparedness and Planning



Emergency Preparedness and Planning provides an overview to preparedness strategies, emergency planning and assessment of hazards and resources. This course provides intermediate level direction and builds upon planning concepts learned in Overview of United States and International Energy Management. Studies include in-depth planning and analytical framework, hazard/vulnerability analysis, and management.

USF | College of Public Health | Dean's Office

PHC 6190 Credit Hours: 3
Public Health Database Management

This course focuses on the creation of databases with applications to public health and clinical research; data entry and database management and checks for accuracy and consistency, and preparation of final databases for statistical analysis.

USF | College of Public Health | Dean's Office

PHC 6193 Credit Hours: 3
Qualitative Methods in Community Health Research

This course provides classroom instruction and field application of qualitative research methods for studying community health problems. It provides a general introduction to ethnographic field methods, emphasizing systematic approaches to collection and analysis of qualitative data. Students will learn to identify the kinds of research problems for which qualitative methods are appropriate, and to critique qualitative research in terms of design, technique, analysis and interpretation.

USF | College of Public Health | Dean's Office

PHC 6196 Credit Hours: 3
Information Systems in Health Care Management

The course is designed to prepare students to analyze and design information systems in health services organizations.

USF | College of Public Health | Dean's Office

PHC 6230 Credit Hours: 3
Foundations of Humanitarian Assistance

This course is designed to develop or improve the skills of persons interested in providing emergency health services in international humanitarian emergencies.

USF | College of Public Health | Dean's Office

PHC 6232 Credit Hours: 3
From Emergency to Development and Prevention

This course includes: resources, training for local agencies, basic services, cultural issues, Sphere Projects Minimum Standards, basic services, women after a disaster, and health service program.

USF | College of Public Health | Dean's Office

PHC 6235 Credit Hours: 3
Critical Infrastructure Protection for Public Health Concepts

The content exposes: 1) HS Presidential Directives 7 and 63, 2) critical infrastructures and key resources, 3) public-private partnerships, and 4) vulnerability analysis and risk analysis/reduction.

USF | College of Public Health | Dean's Office

PHC 6251 Credit Hours: 3
Disease Surveillance and Monitoring

A review of epidemiological principles and methods used in the development and practice of disease and infection surveillance, prevention and control for public health in general and in the context of the hospital setting in particular. Basic epidemiological concepts will be focused in communicable diseases, nosocomial infections, environmental exposures, and emerging diseases.

USF | College of Public Health | Dean's Office

PHC 6255 Credit Hours: 3
Homeland Security: Law, Policy and Public Health

Examines the laws and policy documents that are the foundation of homeland security. It is both broad and in depth. Through rigorous analysis, and regular discussions and short papers, students will learn what makes homeland security happen.

USF | College of Public Health | Dean's Office

PHC 6303 Credit Hours: 3
Community Air Pollution

A study of air pollutants. Emphasis is given to sources and control technologies as well as health effects and environmental impact.

USF | College of Public Health | Dean's Office

PHC 6307 Credit Hours: 3
Principles of Exposure Assessment & Control

The student learns the principles and details of processes involved in assessment of inhalation, ingestion, and dermal contact exposures to chemical and biological agents encountered in environmental and occupational settings.

USF | College of Public Health | Dean's Office

PHC 6313 Credit Hours: 3
Indoor Environmental Quality

Students will learn the importance of maintaining acceptable indoor environmental quality in occupational and residential settings. The course will emphasize current techniques, data interpretation methods, and proper data / conclusions reporting.



USF | College of Public Health | Dean's Office

PHC 6319 Credit Hours: 3

Modern Human Diseases, Diagnosis, and Treatment

This course will cover topics regarding current-day human diseases and conditions. We will explore a new topic that is affecting our society, including but not limited to cancer, HIV, diabetes, nosocomial infections, and the current vaccination debate.

USF | Taneja College of Pharmacy | Pharmacy

PHC 6326 Credit Hours: 3

Global Issues in Environmental Health

Introduces students to global issues regarding civilization, industrialization and globalization and their effects on the environment and the health of workers and their families.

USF | College of Public Health | Dean's Office

PHC 6351 Credit Hours: 3

Occupational Medicine for Health Professionals

Designed to enhance the skills of select health professionals in identifying, evaluating and charting a course of action for medical conditions resulting from occupational exposures and hazards.

USF | College of Public Health | Dean's Office

PHC 6355 Credit Hours: 3

Principles of Occupational Safety

A study of safety management as it relates to hazard identification, accident investigation and training, enabling the safety manager to reduce costs to business, industry, and government.

USF | College of Public Health | Dean's Office

PHC 6357 Credit Hours: 3

Environmental and Occupational Health

The study of major environmental and occupational factors that contribute to development of health problems in industrialized and developed countries.

USF | College of Public Health | Dean's Office

PHC 6360 Credit Hours: 2

Safety Management Principles and Practices

A study of safety management as it relates to hazard identification, accident investigation and training, enabling the safety manager to reduce costs to business, industry, and government.

USF | College of Public Health | Dean's Office

PHC 6362 Credit Hours: 2

Industrial Ventilation

Basic principles of fluid mechanics and exhaust ventilation are employed in the design and evaluation of the performance of industrial ventilation systems.

USF | College of Public Health | Dean's Office

PHC 6365C Credit Hours: 2

Analytical Methods in Industrial Hygiene I

Analytical measuring methodologies and instruments employed in evaluating exposure to chemical agents are described and detailed. Hands-on laboratory exercises permit full familiarization in the calibration and use of these instruments. Problem solving sessions result in the development of a routine for the proper handling of laboratory data.

USF | College of Public Health | Dean's Office

PHC 6369 Credit Hours: 2

Industrial Toxicology

This course will focus on specific industries, industrial processes and the chemicals that worker's may be potentially exposed to, and their impact on Public Health. The Standard Industrial Classification (SIC) division structure will be used to identify industries that have been studied by NIOSH or other agencies. For each industry identified, chemical hazards, exposure routes, toxicology effects, and monitoring methods will be discussed emphasizing the need for a multidisciplinary approach in providing information aimed at reducing worker exposures to industrial toxicants.

USF | College of Public Health | Dean's Office

PHC 6377 Credit Hours: 3

Hazardous Materials and Communication

This course identifies hazardous materials used in the industrial workplace. Students learn the hazards associated with a range of industrial chemicals including metals, caustics, gases, aliphatic, aromatic, chlorinated hydrocarbons, and plastics.

USF | College of Public Health | Dean's Office

PHC 6408 Credit Hours: 3

Health Education and Counseling

This course will provide students with an understanding of multi-level factors that contribute to individual's lived experiences coping with loss, disabilities and genetic or chronic health conditions. Students will learn advanced counseling skills.

USF | College of Public Health | Dean's Office

PHC 6411 Credit Hours: 3

Introduction to Social Marketing for Public Health

This course is designed to analyze the components and applications of social marketing for public health: theoretical



foundations; research methods; strategy development; program design and implementation, materials pretesting, and ethics.

USF | College of Public Health | Dean's Office

PHC 6413 Credit Hours: 3

Family and Community Violence in Public Health

The objective of this course will be to identify and to focus on the most serious policy and research issues which are specific to the field of family violence. The course will cover theory, research, and applied programs in community settings.

USF | College of Public Health | Dean's Office

PHC 6420 Credit Hours: 3

Health Care Law, Regulation and Ethics

This is a survey course of the most significant issues in health care law. Core topics include licensure, malpractice, reproductive issues, the right to die, and managed care. Students will develop and understanding of substantive law, legal decision making, and the relationship between health care law and ethics. Graduate students from other departments may take the course.

USF | College of Public Health | Dean's Office

PHC 6423 Credit Hours: 3

Environmental and Occupational Health Law

Review and analysis of Federal and State laws and regulations in relation to occupational and environmental health and safety.

USF | College of Public Health | Dean's Office

PHC 6435 Credit Hours: 3

Comparative Health Insurance Systems

Overview of health insurance concepts and major systems in developed countries, using microeconomic tools relevant to management and public policy.

USF | College of Public Health | Dean's Office

PHC 6450 Credit Hours: 3

Patient-centered Communication and Professionalism

This course will introduce patient-provider communication skills to health students. Through role modeling, practice, and case studies, students will develop effective patient interviewing and communication skills and demonstrate professionalism.

USF | College of Public Health | Dean's Office

PHC 6461 Credit Hours: 3

Advanced Social Marketing

This course enables students to use the social marketing framework to analyze public health problems and design program solutions. The course focuses on a managerial

perspective to improve organizational efficiency and social design principles.

USF | College of Public Health | Dean's Office

PHC 6500 Credit Hours: 4

Theoretical and Behavioral Basis for Health Education

Assessment of and current methodologies related to understanding and influencing psychosocial, cultural, and situational factors in voluntary behavior change process; theories of health behavior.

USF | College of Public Health | Dean's Office

PHC 6507 Credit Hours: 3

Health Education Intervention Methods

Prepares students to analyze and incorporate effective content and process in health education program delivery. Course not restricted to health education majors.

USF | College of Public Health | Dean's Office

PHC 6511 Credit Hours: 3

Public Health Immunology

Immunology as applied to public health. Emphasis is on applications of immunology and immunological techniques used in surveillance, prevention, and control of public health problems.

USF | College of Public Health | Dean's Office

PHC 6513 Credit Hours: 3

Public Health Parasitology

Human diseases caused by parasite infection with emphasis on diseases related to environmental exposure and of public health importance. Major groups include the protozoan, cestodes, trematodes, and nematodes of human disease.

USF | College of Public Health | Dean's Office

PHC 6515 Credit Hours: 3

Food Safety

Overview of food safety practices and principles emphasizing the role of food safety in public health. Emphasis is placed on the leading causes of foodborne illness and their associated food groups.

USF | College of Public Health | Dean's Office

PHC 6517 Credit Hours: 3

Infectious Disease Prevention Strategies

This course focuses on surveillance criteria, outbreak criteria, data collection and study design. Also included will be data analysis and reporting; interaction with public health agencies; preparation for Joint Commission on Accreditation of Healthcare Organizations (JCAHO); prevention and intervention;



sanitation, disinfection, antiseptics and sterilization; role of immunization, antimicrobial prophylaxis and therapy.

USF | College of Public Health | Dean's Office

PHC 6522 Credit Hours: 3

Nutrition in Health and Disease

Overview of nutrients required for health, regulatory mechanisms influencing requirements and metabolism in growth, reproduction, disease, senescence, psychological and sociological implications, and the coming impacts of genomic (personal) nutrition.

USF | College of Public Health | Dean's Office

PHC 6532 Credit Hours: 3

Women's' Health Issues in Public Health

A public health orientation of women's health needs with their impact on society, family, and children.

USF | College of Public Health | Dean's Office

PHC 6537 Credit Hours: 3

Case Studies in MCH Programs, Policies and Research

Capstone course intended to provide unifying opportunity to utilize concepts, principles, and skills learned in other MCH and public health courses.

USF | College of Public Health | Dean's Office

PHC 6543 Credit Hours: 3

Foundations in Behavioral Health Systems

This web-based course is a graduate course in Behavioral Health within the Department of Community and Family Health. It is designed to provide the graduate student with an overview and understanding of the significant issues and trends in community & family mental health delivery systems in America. Four major areas of mental health will be emphasized: 1) history and legislation; 2) systems delivery; 3) programs and policies; 4) and selected at-risk populations.

USF | College of Public Health | Dean's Office

PHC 6545 Credit Hours: 3

Evaluation in Mental Health

A study of the theories and practical approaches to the development of evaluative methods for behavioral health.

USF | College of Public Health | Dean's Office

PHC 6547 Credit Hours: 3

Case Management in Community Mental Health

This course focuses on case management systems with a special emphasis on clinical case management for vulnerable populations, especially persons with severe mental illness and older adults. This course is designed for persons who are interested in providing case management services, managing

such services, or have an interest in the field. The course examines elements critical for the effective provision and evaluation of case management services.

USF | College of Public Health | Dean's Office

PHC 6560 Credit Hours: 3

The Public Health Laboratory System

This course deals with the roles of the public health laboratory in the Public Health System and thus familiarizes the student with the types, functions and interactions of Public Health Laboratories.

USF | College of Public Health | Dean's Office

PHC 6562 Credit Hours: 3

Microbiology for Healthcare Workers

An overview of contemporary microbiology, with emphasis on the significance of microorganisms in the environment and clinical disease. The structure, physiology, molecular genetics, taxonomy, immunological and clinical aspects, and public health implications of microorganisms will be covered.

USF | College of Public Health | Dean's Office

PHC 6587 Credit Hours: 3

Health & Wellness Coaching: Advanced Methods

Advanced methods and skills in the Wellness Mapping 360 methodology. Emphasis is placed on cultivating proficiency in core Health & Wellness Coaching competencies as defined by the International Coach Federation and the International Consortium of Health.

USF | College of Public Health | Dean's Office

PHC 6589 Credit Hours: 3

Health & Wellness Coaching: Core Principles

Introduction to core framework, methods, and skills utilized in Health & Wellness Coaching. Emphasis is placed on professional coaching competencies and skill-building practice to effectively guide individuals towards healthy & sustained lifestyle change.

USF | College of Public Health | Dean's Office

PHC 6593 Credit Hours: 1

Professional Development in Genetic Counseling

This course will prepare students to begin their career as an independent genetic counselor by fostering skills needed for lifelong learning and ongoing professional development.

USF | College of Public Health | Dean's Office

PHC 6596 Credit Hours: 1

Introduction to Genetic Counseling



Students will be introduced to the goals and basic components of genetic counseling sessions as well as basic medical genetics terminology, an historical perspective of the profession, and research topics in genetic counseling, genetics, and genomics.

USF | College of Public Health | Dean's Office

PHC 6601 Credit Hours: 3 Human Genomics in Medicine and Public Health

Introduction of modern genetic technologies to health students who have limited training in molecular biology and biochemistry. The course will integrate these rapidly developing technologies into the real world of personal health.

USF | College of Public Health | Dean's Office

PHC 6705 Credit Hours: 3 Formative Research Methods in Social Marketing

This course is designed to familiarize students with the basic principles and techniques in conducting formative research for social marketing program development. The major topics covered include: principles of formative research design, qualitative data collection methods, interviewing techniques, qualitative data analysis, survey design, pretesting, and implementation, ethical principles and protection of human subjects.

USF | College of Public Health | Dean's Office

PHC 6716 Credit Hours: 3 Advanced Formative Research Methods

This course gives students an advanced, applied perspective of formative research methods. The focuses on: survey design; online quantitative research; translating findings into social marketing strategy; and applied data reporting techniques.

USF | College of Public Health | Dean's Office

PHC 6724 Credit Hours: 1 Synthesizing Public Health Research

This course is an introduction to interpreting, synthesizing, and making claims about the research in different kinds of public health studies, and citing and referencing the research literature.

USF | College of Public Health | Dean's Office

PHC 6726 Credit Hours: 6 Community-Based Participatory Research for Tropical Health

Using project-based learning, this field course is designed as an intensive 4-week intro to the background, methods and techniques for Community-based Participatory Research (CbPR) for tropical health interventions in resource-constrained settings.

USF | College of Public Health | Dean's Office

PHC 6729 Credit Hours: 3 Advanced Research Education in Adolescent Behavioral Health

Focuses on advanced topics in community-based participatory research in adolescent behavioral health. It will also focus on organization readiness to adopt evidence-based practices in adolescent behavioral health.

USF | College of Public Health | Dean's Office

PHC 6757 Credit Hours: 3 Population Assessment: Part 2

Fundamentals of population assessment in public health including concepts and skills in systems thinking, public health biology, health behavior, environmental health, health policy, global health, epidemiology, and biostatistics. Part 2 of 2.

USF | College of Public Health | Dean's Office

PHC 6761 Credit Hours: 3 Global Health Assessment Strategies

This course provides a systematic approach for the assessment of public health interventions in low resource countries by providing tools and skills to collect, retrieve, manage, assemble, analyze and communicate information at the community level.

USF | College of Public Health | Dean's Office

PHC 6765 Credit Hours: 3 International Health Education

This travel abroad course compares the practice and venues of health education as they occur in another country with those in the United States. Specific course location varies. Focus is on comparative assessment of individual and community health education needs, program planning, implementation, and evaluation, coordination and administration of programs, resource availability of programs, resource availability, health communication mechanisms, application of research principles, and status of the health education profession.

USF | College of Public Health | Dean's Office

PHC 6907 Credit Hours: 1-6 Independent Study: Public Health

Independent study determined by the student's needs and interests.

USF | College of Public Health | Dean's Office

PHC 6912 Credit Hours: 1 Clinical Research II

Students collect data, review and critique published literature, work on writing for lay audiences and scholarly publication, practice data analytic techniques, trouble shoot research challenges; complete background and methods sections for project.



USF | College of Public Health | Dean's Office

PHC 6917 Credit Hours: 2

Master of Health Administration Internship Report

In-depth analysis of an approved management problem at a health organization that results in a management consulting report based on the field-based practice experience.

USF | College of Public Health | Dean's Office

PHC 6934 Credit Hours: 1-6

Selected Topics in Public Health

The content of this course will be governed by student demand and instructor interest.

USF | College of Public Health | Dean's Office

PHC 6938 Credit Hours: 1

Cases and Topics in Medical Genetics

Advanced medical genetics and genetic counseling topics are covered in this class via a combination of student presentations, instructor lectures, guest speakers, and case-based discussions. Content varies depending upon instructor and student interests.

USF | College of Public Health | Dean's Office

PHC 6941 Credit Hours: 2

Master of Health Administration Internship

Students demonstrate MHA-competency attainment through an integrative field-based practice experience analyzing a management problem for a public or private health organization.

USF | College of Public Health | Dean's Office

PHC 6943 Credit Hours: 3

Integrated Learning Experience

Student will demonstrate synthesis of MPH competencies through an integrated learning experience. This course is a culminating experience for the MPH.

USF | College of Public Health | Dean's Office

PHC 6946 Credit Hours: 2

Service Learning in Adolescent Behavioral Health I

Orient students to the organizational context of adolescent behavioral health community agencies and community implementation of evidence-based practices. Students complete first phase of the Capstone project.

USF | College of Public Health | Dean's Office

PHC 6948 Credit Hours: 2

Service Learning in Adolescent Behavioral Health III

Facilitate completion of the third phase of the Capstone Project. Students will analyze and report findings from research projects conducted during the Service Learning II course.

USF | College of Public Health | Dean's Office

PHC 6971 Credit Hours: 2-19

Thesis: Master of Science in Public Health

Research-oriented study for students seeking the M.S. degree in Public Health.

USF | College of Public Health | Dean's Office

PHC 7018 Credit Hours: 3

Environmental Epidemiology

This course will consider the relationship between environmental (non-occupational) factors and the occurrence of disease in human populations, including the chemical and physical extrinsic agents to which humans are exposed.

USF | College of Public Health | Dean's Office

PHC 7044 Credit Hours: 3

Neuroepidemiology

This course provides an overview of the epidemiology of selected neurologic diseases. Particular emphasis is placed on how methodologic problems apply to the epidemiologic study of a variety of neurologic diseases.

USF | College of Public Health | Dean's Office

PHC 7055 Credit Hours: 3

Biostatistical Computing

This course provides a broad foundation in modern biostatistical computing methods relevant to public health research. It prepares Ph.D. students with advanced computing skills for dissertation research. Topics include algorithms in matrix algebra, Newton Raphson, Fisher's scoring, the EM algorithm, bootstrap, random number generation, Monte Carlo Markov Chain, and data augmentation.

USF | College of Public Health | Dean's Office

PHC 7058 Credit Hours: 3

Biostatistical Inference II

This course covers the foundation of biostatistical inference, required for biostatistic program. Topics include likelihood theory, modern Bayes theory, estimation and testing, non-parametric theory.

USF | College of Public Health | Dean's Office

PHC 7067 Credit Hours: 3

Probability Models



Probability theory and models with applications in Public Health. Contents: fundamental probability theories; stochastic process; probability modeling with application to health data.

USF | College of Public Health | Dean's Office

PHC 7098 Credit Hours: 3

Generalized Linear Models

The course provides an in-depth coverage of the theory of generalized linear models with application in public health. Topics covered are numerical algorithms, exponential family, modeling checking, logistic regression, loglinear models, estimating equations.

USF | College of Public Health | Dean's Office

PHC 7119 Credit Hours: 3

Organizational Behavior in Public Health Systems

This course investigates the impact that individuals, groups, and structure have on behavior within organizations. The application of such knowledge is used toward advancing the effectiveness of public health systems.

USF | College of Public Health | Dean's Office

PHC 7149 Credit Hours: 1

Practical Applications II: Public Health Leadership

Designed to engage future public health leaders in discussions and critical thinking activities regarding leadership roles and responsibilities as they contribute to a leadership framework in public health academic, governmental or community practice.

USF | College of Public Health | Dean's Office

PHC 7154 Credit Hours: 3

Evidence-informed Public Health I

This course provides an overview of evidence-informed public health practice in addition to skills for evidence-informed decision making.

USF | College of Public Health | Dean's Office

PHC 7198 Credit Hours: 3

Advanced Qualitative Methods in Community Health Research

This course provides advanced instruction and supervision of field application of qualitative research methods for studying community health problems. Content focuses on the skills to critically evaluate theory-based mixed method designs.

USF | College of Public Health | Dean's Office

PHC 7368 Credit Hours: 2

Aerosol Technology in Industrial Hygiene

An advanced study of the properties, behavior, and measurement of aerosols, including the physical and chemical principles affecting behavior. Various applications of aerosol technology in industrial hygiene will be investigated, including inhalation and deposition of aerosols, aerosol sampling, and control.

USF | College of Public Health | Dean's Office

PHC 7437 Credit Hours: 3

Applications in Health Economics

1. in depth, economic evaluation techniques, cost-benefit, cost-effectiveness, and cost-utility analysis. 2. critical review of selected peer reviewed empirical studies. 3. students use a large dataset and estimate an effect size.

USF | College of Public Health | Dean's Office

PHC 7504 Credit Hours: 1

Innovative Education in Public Health

This course examines public health education, through assessment of community knowledge and learning needs, and the use of innovative pedagogical practices to deliver experiences that promote learning in academic, organizational, and community settings.

USF | College of Public Health | Dean's Office

PHC 7566 Credit Hours: 3

Public Health Laboratory Safety and Security

This course will teach students the principles, policies, and methods for management of public health laboratory safety and security programs. Topics include: Biosecurity, PPE, engineering controls, biological, chemical, radiological, and animal safety.

USF | College of Public Health | Dean's Office

PHC 7583 Credit Hours: 3

Community-Based Health Promotion

This course is designed to familiarize students with key historical underpinnings and principles and practices of community-based participatory research.

USF | College of Public Health | Dean's Office

PHC 7703 Credit Hours: 3

Advanced Research Methods in Epidemiology

Course emphasizes summary and statistical analysis of data. Methods include life tables, logistic and proportional hazards regression, assessment of confounding, interaction, and bias. Includes a two-hour weekly computer lab.

USF | College of Public Health | Dean's Office

PHC 7908 Credit Hours: 1-9

Specialized Study in Public Health



Demonstration of an in-depth study in a specialized public health area. This study may be used to address areas where a student needs to demonstrate a higher level of competency.

USF | College of Public Health | Dean's Office

PHC 7919 Credit Hours: 1-6

Public Health Doctoral Project

USF | College of Public Health | Dean's Office

PHC 7932 Credit Hours: 1

Practical Applications I: Policy, Advocacy and Public Health

This seminar course is designed to engage current public health practitioners in discussions and critical thinking activities that build skills for influencing health policy and program decision-making.

USF | College of Public Health | Dean's Office

PHC 7935 Credit Hours: 1-3

Special Topics in Public Health

Content will include recent or current issues in public health.

USF | College of Public Health | Dean's Office

PHC 7937 Credit Hours: 3

Advanced Seminar in Grant-Writing

This course addresses advanced skills and techniques necessary for writing successful research grant proposals. The focus is on writing grant proposals aimed at public health research and evaluation of public health interventions.

USF | College of Public Health | Dean's Office

PHC 7980 Credit Hours: 2-19

Dissertation

USF | College of Public Health | Dean's Office

PHH 6105 Credit Hours: 3

Seminar in Ancient and Medieval Philosophy

Examine major texts in ancient and medieval philosophy.

USF | College of Arts and Sciences | Philosophy

PHH 6310 Credit Hours: 3

Seminar in 17th and 18th Century Philosophy

This course examines major philosophical texts from the seventeenth and eighteenth centuries.

USF | College of Arts and Sciences | Philosophy

PHH 6645 Credit Hours: 4

Contemporary Continental Philosophy

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.

USF | College of Arts and Sciences | Philosophy

PHH 6930 Credit Hours: 3

Seminar in Chinese Philosophy

Survey of classical Chinese intellectual traditions, represented by China's earliest thinkers: Laozi, Confucius, Mozi, Mencius, Xunzi, and Han Feizi, as integral to the so-called the "axial age" or "pivotal age" (800-200 BCE).

USF | College of Arts and Sciences | Philosophy

PHI 5135 Credit Hours: 3

Symbolic Logic

Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logic.

USF | College of Arts and Sciences | Philosophy

PHI 5913 Credit Hours: 1-4

Research

Individual research supervised by a faculty member.

USF | College of Arts and Sciences | Philosophy

PHI 6305 Credit Hours: 3

Seminar in Epistemology

An analysis of recent and contemporary problems of knowledge. Seminar format.

USF | College of Arts and Sciences | Philosophy

PHI 6425 Credit Hours: 3

Seminar in the Philosophy of Social Science

Philosophical issues arising in the social sciences; value assumptions, laws and the theories, models, etc. Seminar format.

USF | College of Arts and Sciences | Philosophy

PHI 6605 Credit Hours: 3

Seminar in Ethics

Advanced study of the problems of moral philosophy.

USF | College of Arts and Sciences | Philosophy

PHI 6645 Credit Hours: 3

Developmental Ethics

This course presents and critically examines the major ethical theories related to both national and international development institutions, policies, and practices.

USF | College of Arts and Sciences | Philosophy



PHI 6686 Credit Hours: 3

Climate Change and Societal Evolution

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.

USF | College of Arts and Sciences | Philosophy

PHI 6908 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | Philosophy

PHI 6945 Credit Hours: 1-3

Graduate Instruction Methods

Special course to be used primarily for the training of teaching assistants.

USF | College of Arts and Sciences | Philosophy

PHI 7980 Credit Hours: 2-19

Dissertation: Doctoral

USF | College of Arts and Sciences | Philosophy

PHM 6105 Credit Hours: 3

Seminar in Social Philosophy

A detailed study of the philosophical theories of society, class societies (Capitalism), advanced technocracy (all types). Seminar format.

USF | College of Arts and Sciences | Philosophy

PHM 6266 Credit Hours: 3

Continental Philosophy II: Political and Social Theory

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.

USF | College of Arts and Sciences | Philosophy

PHM 6305 Credit Hours: 3

Seminar in Political Philosophy

An examination of the main political philosophies. Seminar format.

USF | College of Arts and Sciences | Philosophy

PHP 6005 Credit Hours: 3

Plato

A systematic study of Plato's dialogues.

USF | College of Arts and Sciences | Philosophy

PHP 6405 Credit Hours: 4

Seminar in Descartes' Philosophy

Examination of Descartes' major philosophical texts.

USF | College of Arts and Sciences | Philosophy

PHP 6420 Credit Hours: 4

Seminar in Leibniz's Philosophy

Examination of Leibniz's major philosophical texts.

USF | College of Arts and Sciences | Philosophy

PHP 6525 Credit Hours: 4

Nietzsche and the Nietzscheans

Examines Nietzsche's major texts as well as the radical differences in Nietzsche reception from 1889 to the present. For graduate students only.

USF | College of Arts and Sciences | Philosophy

PHP 6645 Credit Hours: 4

Foucault

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.

USF | College of Arts and Sciences | Philosophy

PHT 5022 Credit Hours: 2

Professional Issues II

An introduction to critical injury and educator roles and responsibilities; explores the concepts of decision-making, evaluation of research, theories of learning, research and clinical pathways. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 5171C Credit Hours: 3

Foundational Science I

Introduction to the peripheral neuromuscular, skeletal, integumentary, and circulatory systems in normal and pathological states. Includes the anatomy and physiology of bones, joints, skin, nerves, and blood vessels, as well as the response of these tissues to injury and their potential for healing. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 5173 Credit Hours: 2

Foundational Science III

Emphasis on physiology of the peripheral sensorimotor and cardiopulmonary systems. Restricted to majors.



USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 5185 Credit Hours: 3

Movement Science II

Elaboration of movement science principles with emphasis on biomechanics, kinesiology, functional anatomy, exercise physiology, histopathology, motor control and connective tissue properties. Restricted to majors. Repeatable for 3 cr.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 5272 Credit Hours: 2

Patient/Client Management II

Application of principles of patient/client management to patients with cardiopulmonary disease or dysfunction and diabetes in order to identify and write plans of care for related movement dysfunction. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 5275C Credit Hours: 4

Physical Therapy Science I

Introduction to physical therapy skills in examination, evaluation, and diagnosis for clients with uncomplicated musculoskeletal impairments involving the extremities. Emphasis on obtaining a history and performing physical therapy tests and measures leading to a differential diagnosis by application of principles of movement. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 5277C Credit Hours: 3

Physical Therapy Science III

Examination, evaluation, diagnosis, and intervention for movement-related problems secondary to impairments of the nervous system. Contemporary theories of motor development, motor learning and motor control will be introduced. Student knowledge will be demonstrated with clinical problem solving scenarios. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 5316 Credit Hours: 1

Medical Management I

Introduction to medical diagnostics, pharmacological principles, and common orthopedic surgical procedures as components of medical management including repair of bone and soft tissue. Restricted to majors. Repeatable for 1 credit.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 5822 Credit Hours: 3

Clinical Education I

Initial clinical practice experience for the development of patient care skills. The course is graded satisfactory/unsatisfactory. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 5934 Credit Hours: 1-10

Special Topics I

Exploration of physical therapy practice issues. Topics may vary each semester the course is offered. A seminar and/or lab course. Restricted to majors. Not repeatable for credit.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 5961 Credit Hours: 1

Clinical Proficiency and Problem Solving II

Practicum for the synthesis of skills, knowledge, and values for management of individuals with cardiopulmonary and endocrine related movement disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6174 Credit Hours: var.

Movement Science I - DPT

A basic introduction to movement science and its foundational principles from four different perspectives: biomechanics; kinesiology; exercise physiology; and motor control, learning and development. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6186 Credit Hours: var.

Movement Science III

Integration of movement science concepts (biomechanics; kinesiology; functional anatomy; motor control, learning and development; and exercise physiology) to planning interventions for complex movement disorders. Restricted to majors. Repeatable for 4 cr.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6274 Credit Hours: var.

Clinical Reasoning for Physical Therapists

This course utilizes a seminar/lecture format to introduce students to clinical reasoning processes used by physical therapists; screening for medical diseases; integration of medical testing and management; and the case management process that will be used during the clinical problem solving courses.



USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6276 Credit Hours: var.

Physical Therapy Practice 2

This course is designed to provide a concise, clinically oriented overview of the anatomy, physiology, histology, and embryological development of the neurologic system, as applied to physical therapy practice.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6278 Credit Hours: var.

Physical Therapy Practice 4

This course is designed to provide a concise, clinically oriented overview of the anatomy, physiology, histology, and embryological development of the gastrointestinal, renal, and endocrine systems, as applied to physical therapy practice.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6285C Credit Hours: var.

Scientific and Professional Foundations of Physical Therapy II

Theoretical foundations and clinical practice of examination skills with emphasis on performing physical therapy tests and measures as listed in the guide to physical therapist practice. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6313 Credit Hours: 1

Medical Management III

Seminar on the medical and surgical management; epidemiology; pathophysiology; pharmacology, and repair of common injuries to and diseases of the nervous system across the life span. Restricted to majors. Repeatable for 1 credit hour.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6352 Credit Hours: var.

Pharmacology for Healthcare Professionals

This course is designed to provide a basic understanding of drug absorption, distribution, metabolism, and excretion, effects on the body and side effects or toxicity.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6391C Credit Hours: 2

Foundational Science IV

Application of the movement sciences to examination, evaluation, diagnosis, intervention, and prevention of movement dysfunction related to the musculoskeletal, cardiopulmonary, and neuromuscular systems. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6521 Credit Hours: 3

Professional Issues IV

Focuses on the administrative role of the physical therapist. Includes formulation of budgets, policies, procedures, reimbursement, legal concepts of risk management and malpractice, and the ethical concept of pro bono service and the APTA judicial process. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6606 Credit Hours: 3

Critical Inquiry I

Introduction to critical inquiry skills of the physical therapist with successful preparation of an in-depth literature review on a selected topic in musculoskeletal or cardiopulmonary movement disorders. Restricted to majors. Repeatable for 3 credits.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6731 Credit Hours: 3

Patient/Client Management IV

Learners adapt principles of patient/client management to complex patient situations in order to identify and state movement dysfunctions and to write plans of care. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6735C Credit Hours: 4

Physical Therapy Science IV

The role of the physical therapist in ameliorating activity limitations and participation restrictions encountered by people with physical impairments. Emphasis will be placed on the physical therapy assessment and intervention procedures intended to identify and minimize physical disabilities occurring secondary to traumatic, acquired or congenital amputation and disorders of the spine. Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6763 Credit Hours: var.

Management of Patients with Neuromuscular Disorders

This course is designed to incorporate evidence based practice and utilization for the management of patients with neuromuscular disorders.



USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6841 Credit Hours: var.

Clinical Education I - DPT

Initial full-time clinical practice experience for the development of patient care skills.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6935 Credit Hours: 1-10

Special Topics II

Analysis of issues related to the education, critical inquiry, administration, and/or consultant roles of the physical therapist. Topics in this seminar may vary each semester. Restricted to majors. Not repeatable for credit.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 6963 Credit Hours: 1

Clinical Proficiency and Problem Solving IV

Practicum for the synthesis of skills, knowledge, and values management of individuals with complex movement and multisystem disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7264C Credit Hours: var.

Clinical Problem Solving I - DPT

Intro to clinical problem solving in physical therapy following a normative model for professional practice across the lifespan utilizing musculoskeletal, neuromuscular, cardiopulmonary, and integumentary preferred practice patterns.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7328 Credit Hours: var.

Pediatric Physical Therapy

This course is designed to provide the student the opportunity for hands on physical therapy examination and intervention skill development with the pediatric patient population. Group discussion of issues impacting care of this population is included.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7402 Credit Hours: 3

Psychosocial Aspects of PT Practice

Utilization of behavioral foundational sciences and the biopsychosocial model and their contribution to patient/client

management and understanding organizational behavior. Restricted to majors. Repeatable for 3 credit hours.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7500 Credit Hours: var.

Wellness and Health Promotion

This course is designed to incorporate evidence based practice for the management of clients in the area of wellness and health promotion.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7531 Credit Hours: var.

Professional Issues II - DPT

Focus on legal, ethical, & professional responsibility and accountability of the physical therapist. Students further develop their abilities to make legal and ethical decisions.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7540 Credit Hours: var.

Patient/Client Management Seminar

This year-long course introduces students to the patient client management process described in the APTA guide to physical therapist practice. Emphasis is on clinical reasoning, gathering and synthesizing pertinent information, and the development of a plan of care. Course includes mentored experience in a physical therapy clinical setting.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7607 Credit Hours: var.

Critical Inquiry I - DPT

Introduction to the critical inquiry role of the physical therapist. Course involves the successful preparation of an in-depth review of the literature and evidence related to a selected movement disorder topic.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7618 Credit Hours: 3

Critical Inquiry III

Development, implementation, and presentation of a capstone investigative project. Restricted to majors. Repeatable for 3 credits.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7640 Credit Hours: var.

Biostatistics I



After completing this course, the student should be able to apply basic descriptive and inferential techniques in her/his research endeavors and be able to read statistically oriented public health research articles with greater understanding.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7711C Credit Hours: 4

Clinical Decision Making I for Hand and Upper Limb Rehabilitation

Emphasizes clinical decision making for rehabilitation of hand & upper limb joint pathology. that affect the joints and surrounding soft tissues. Anatomy, biomechanics, examination, and therapy for each region: shoulder, elbow, wrist, & hand are covered.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7730 Credit Hours: var.

Screening for Medical Disorders

This course will explore the PT's role as an independent practitioner working w/in a collaborative medical model, & the ability to recognize clinical manifestations that suggest that physician contact is warranted regarding a client's health status.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7817 Credit Hours: 6

Critical Education II

Intermediate clinical education to develop skills in inpatient physical therapy centers. Satisfactory/unsatisfactory grade. Restricted to majors. Repeatable for 6 credit hours.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7864 Credit Hours: var.

Integrated Clinical Experience I

Clinical practice experience for all components of patient client management. Students will spend the fall term in one center. The course is graded satisfactory/unsatisfactory.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7906 Credit Hours: 1-3

Independent Study

A seminar and/or lab course for small groups of students or independent study for individual students to address areas of special interest in physical therapy. Restricted to majors. Not repeatable for credit.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 7936 Credit Hours: 1-10

Special Topics III

Analysis of issues related to physical therapy as a component of the health care system. Topics in this seminar may vary each semester the course is offered. Restricted to majors. Not repeatable for credit.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 8070 Credit Hours: var.

Medical Imaging in Rehabilitation

The purpose of this medical imaging course is to provide the physical therapy clinical doctoral learner with the tools needed to interpret and apply specialized medical imaging information to the rehabilitation patient.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 8266 Credit Hours: var.

Clinical Problem Solving III - DPT

A culmination of clinical problem solving in physical therapy following a normative model for professional practice. Focus is on student development and presentation of a case-based educational module incorporating all aspects of professional practice.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 8504 Credit Hours: var.

Service Learning

In small groups, students plan and implement a program to meet the needs of an underserved population(s). Restricted to majors.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 8532 Credit Hours: var.

Managing Quality in Healthcare

The course examines methods & tools for managing quality in health facilities, physician practices, managed care and public health; including developments in quality assurance & improvement, utilization review, risk management, & patient satisfaction.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 8550 Credit Hours: var.

Professional Issues III - DPT

The administrative role of the physical therapist is viewed through current issues in the profession. Students prepare a strategic plan for professional growth reflecting commitment to all 5 roles of the physical therapist & leadership responsibilities.



USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 8555 Credit Hours: var.

Legal and Ethical Issues for Physical Therapists

This course provides the physical therapist doctoral learner with foundational information as to legal, ethical and administrative decision making processes regarding issues often encountered in clinical practice.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 8702 Credit Hours: var.

Advanced Prosthetics and Orthotics

An advanced practice seminar in which students explore special topics in prosthetic and orthotic devices and physical therapy management of patients/clients who use prosthetic and orthotic devices.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHT 8843 Credit Hours: var.

Clinical Education III - DPT

Final 16-week clinical experience that takes place in a comprehensive center or cluster of centers. Course is graded satisfactory/unsatisfactory.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

PHY 5720C Credit Hours: 3

Electronics for Research

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.

USF | College of Arts and Sciences | Physics

PHY 6346 Credit Hours: 3

Electromagnetic Theory I

Electrostatics, magnetostatics, potential and boundary value problems. Maxwell's equations. First semester of sequence PHY 6346, [\[\[permalink=1266|tooltip:{"title":1}\]\]%prefix% %code%\[\[/permalink\]\]](#).

USF | College of Arts and Sciences | Physics

PHY 6436 Credit Hours: 3

Applied Materials Physics

Introduces students to properties and applications of advanced functional materials, such as nanostructured materials and biomaterials.

USF | College of Arts and Sciences | Physics

PHY 6447 Credit Hours: 3

Physics of Lightwave Devices and Applications

Nonlinear optics including optical phaseconjugation, second harmonic and sum frequency generation, and stimulated Raman scattering. Selected applications of lasers and nonlinear optics.

USF | College of Arts and Sciences | Physics

PHY 6645 Credit Hours: 3

Quantum Mechanics I

Hilbert space, continuous spectrum, matrix and wave mechanics, quantum dynamics, symmetries, angular momentum, perturbation methods

USF | College of Arts and Sciences | Physics

PHY 6753 Credit Hours: 3

Measurement and Instrumentation

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.

USF | College of Arts and Sciences | Physics

PHY 6911 Credit Hours: 1-19

Directed Research

An individual investigation of a research topic under the supervision of an instructor.

USF | College of Arts and Sciences | Physics

PHY 6938 Credit Hours: 1-10

Selected Topics in Physics

Each topic is a course in directed study under the supervision of a faculty member.

USF | College of Arts and Sciences | Physics

PHY 6971 Credit Hours: 2-12

Thesis: Master's

USF | College of Arts and Sciences | Physics

PHY 7980 Credit Hours: 2-12

Dissertation: Doctoral

USF | College of Arts and Sciences | Physics

PHZ 5116 Credit Hours: 3

Methods of Theoretical Physics II

Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis,



differential and integral equations, numerical methods, and probability theory.

USF | College of Arts and Sciences | Physics

PHZ 5156C Credit Hours: 3

Computational Physics I

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.

USF | College of Arts and Sciences | Physics

PHZ 5430 Credit Hours: 3

Introductory Physics of Materials

Phenomenological introduction to the structural, thermal, electrical, magnetic, mechanical, and optical properties of materials.

USF | College of Arts and Sciences | Physics

PHZ 6426 Credit Hours: 3

Solid State Physics II

Optical, electrical and magnetic properties of insulators, superconductivity, imperfections in solids. Second semester of sequence [[permalink=1253|tooltip:{"title":1}]]%prefix% %code%[[/permalink]], PHZ 6426.

USF | College of Arts and Sciences | Physics

PHZ 6716 Credit Hours: 3

Biophysics II

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.

USF | College of Arts and Sciences | Physics

POS 5159 Credit Hours: 3

Urban Policy Analysis

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.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

POS 6095 Credit Hours: 3

Seminar in Intergovernmental Relations

Advanced study of selected topics of institutions, processes, and behavior of American state governments and Florida government.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

POS 6455 Credit Hours: 3

Political Parties and Interest Groups

Analysis of statutes, functions, and characteristics of political parties and interest groups, as well as their interactions with political processes, actors, and institutions.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

POS 6707 Credit Hours: 3

Qualitative Analysis

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.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

POS 6736 Credit Hours: 3

Research Design

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.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

POS 6909 Credit Hours: 1-3

Independent Study

Specialized independent study determined by the student's needs and interests. Needs instructor's consent.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

POS 6919 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

POS 6939 Credit Hours: 3

Capstone Seminar

This seminar is designed to discuss and apply advanced methods, interdisciplinary conceptual tools, and strategies to develop and complete the dissertation proposal. The course will be taken at the same as the Ph.D. comprehensive exam.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

POS 6971 Credit Hours: 2-19



Thesis: Master's

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

POS 7980 Credit Hours: 2-19

Dissertation

This course will allow PhD candidates to conduct research on their dissertation topic in partial fulfillment of the requirements for the PhD in Government. This research takes place following the successful defense of a dissertation proposal.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

PPE 6058 Credit Hours: 3

Personality

Survey of research and theories of personality, including its relationship to the development of normal and abnormal behavior.

USF | College of Arts and Sciences | Psychology

PSY 6065 Credit Hours: 1-4

Introduction to Advanced Psychology

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.

USF | College of Arts and Sciences | Psychology

PSY 6218 Credit Hours: 3

Graduate Research Methods

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.

USF | College of Arts and Sciences | Psychology

PSY 6605C Credit Hours: 2

History and Systems of Psychology

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.

USF | College of Arts and Sciences | Psychology

PSY 6907 Credit Hours: 1-19

Independent Study

Independent study in which student must have a contract with an instructor.

USF | College of Arts and Sciences | Psychology

PSY 6946 Credit Hours: 1-15

Practicum and Internship in Clinical Psychology

Supervised training in community and university settings in the application of Psychology.

USF | College of Arts and Sciences | Psychology

PSY 6971 Credit Hours: 2-19

Thesis: Master's

USF | College of Arts and Sciences | Psychology

PSY 7918 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | Psychology

PSY 7980 Credit Hours: 2-19

Dissertation: Doctoral

USF | College of Arts and Sciences | Psychology

PUP 6007 Credit Hours: 3

Seminar in Public Policy

Examination of public policy from a theoretical and practical decision. Analysis will be presented in terms of their usefulness in designing policy.

USF | College of Arts and Sciences | School of Interdisciplinary Global Studies

PUR 6603 Credit Hours: 3

Strategic Communication Campaigns

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

QMB 5010 Credit Hours: 0

MBA Essentials: Business Statistics

An overview of the statistical tools that allow typical business data to be analyzed. ANOVA, multiple linear regression, and tests of hypothesis are emphasized.

USF | Muma College of Business |

QMB 6304 Credit Hours: 3

Analytical Methods for Business

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.



USF | Muma College of Business |

QMB 6357 Credit Hours: 3
Statistics for Business Professionals

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.

USF | Muma College of Business |

QMB 6375 Credit Hours: 3
Applied Linear Statistical Models

A study of multivariate data analysis techniques and their applications to problems and systems in business.

USF | Muma College of Business |

QMB 6615 Credit Hours: 3
Lean Operations

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.

USF | Muma College of Business |

QMB 7557 Credit Hours: 2
Research and Writing Skills for Doctoral Students

Required of all doctoral students in their first semester, this course is intended to develop skills in data collection and statistical programming and improve students ability to write for academic publication.

USF | Muma College of Business |

QMB 7566 Credit Hours: 3
Applied Multivariate Statistical Methods

A course in research analysis and measurement focusing on multivariate statistical analysis techniques.

USF | Muma College of Business |

RCS 5035 Credit Hours: 3
Rehabilitation Counseling: Concepts and Applications

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.

USF | College of Behavioral and Community Sciences |
Rehabilitation and Mental Health Counseling

RCS 5450 Credit Hours: 3

Fundamentals of Substance Abuse Counseling

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.

USF | College of Behavioral and Community Sciences |
Rehabilitation and Mental Health Counseling

RCS 5905 Credit Hours: 1-4
Directed Studies

Supervised rehabilitation studies under the direction of a faculty member.

USF | College of Behavioral and Community Sciences |
Rehabilitation and Mental Health Counseling

RCS 6301 Credit Hours: 3
Career and Lifestyle Assessment

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.

USF | College of Behavioral and Community Sciences |
Rehabilitation and Mental Health Counseling

RCS 6408 Credit Hours: 3
Diagnosis and Treatment of Psychopathology

Psychopathology as applied to psychotherapy and case management in mental health, addictions, and other rehabilitation settings.

USF | College of Behavioral and Community Sciences |
Rehabilitation and Mental Health Counseling

RCS 6456 Credit Hours: 3
Counseling Approaches for Substance Abusers

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.

USF | College of Behavioral and Community Sciences |
Rehabilitation and Mental Health Counseling

RCS 6476 Credit Hours: 3
Human Sexuality Counseling

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.

USF | College of Behavioral and Community Sciences |
Rehabilitation and Mental Health Counseling

RCS 6740 Credit Hours: 3
Research and Program Evaluation



Training in the evaluation and utilization of available research studies and the development of research skills. An individual research project is required.

**USF | College of Behavioral and Community Sciences |
Rehabilitation and Mental Health Counseling**

RCS 6825 Credit Hours: 3-6

Internship

Student placement in an approved intern setting for a minimum of 600 hours of supervised experience.

**USF | College of Behavioral and Community Sciences |
Rehabilitation and Mental Health Counseling**

RCS 6930 Credit Hours: 1-4

Seminar in Rehabilitation Counseling

Selected issues and problems in rehabilitation counseling with subject and scope to be determined by instructor.

**USF | College of Behavioral and Community Sciences |
Rehabilitation and Mental Health Counseling**

RED 6068 Credit Hours: 3

**Adolescent Literacy: In and Out of School
Literacy Practices**

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 a identity.

USF | College of Education |

RED 6247 Credit Hours: 3

Supervision and Coaching in Literacy

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.

USF | College of Education |

RED 6317 Credit Hours: 3

**Intermediate Literacy: Assessment, Skills, and
Strategies**

Understand the developmentally appropriate, research-based theories and practices that support children's literacy learning in the intermediate grade levels.

USF | College of Education |

RED 6449 Credit Hours: 3

Literacy and Technology

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.

USF | College of Education |

RED 6540 Credit Hours: 3

Assessment in Developing Literacies

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.

USF | College of Education |

RED 6545 Credit Hours: 3

Issues in Vocabulary and Word Study

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.

USF | College of Education |

RED 6658 Credit Hours: 3

**Foundations and Application of Differentiated
Reading Instruction**

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.

USF | College of Education |

RED 6749 Credit Hours: 3

**History and Foundations in Reading and STEM
Disciplines**

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.

USF | College of Education |

RED 6906 Credit Hours: 1-6

Independent Study: Reading Education

Independent study in which students must have a contract with an instructor.

USF | College of Education |

RED 7048 Credit Hours: 3

Reading as a Symbolic Process

Seminar designed to develop critical thinking about the reading process and reading acquisition.

USF | College of Education |

RED 7742 Credit Hours: 3

Research in Vocabulary and Word Study



Students will critically examine research in word acquisition, development, and instruction from preschool through the intermediate grades linguistic diversity.

USF | College of Education I

RED 7798 Credit Hours: 3

Research in Transdisciplinary Texts and Teaching

The purpose of this course is to familiarize advanced graduate students with research and instructional practices utilizing a variety of texts within a "Transdisciplinary" context.

USF | College of Education I

RED 7938 Credit Hours: 1-3

Advanced Graduate Seminar

Discussion and evaluation of current issues and research in Reading/Language Arts and related fields. Rpt. To 6 hours.

USF | College of Education I

REE 6045 Credit Hours: 3

Real Estate Decisions

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.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

REE 6305 Credit Hours: 2

Real Estate Investment

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.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

REE 6938 Credit Hours: 2-4

Selected Topics in Real Estate

Topics to be selected by instructor and department chairperson on pertinent real estate issues.

USF | Muma College of Business | Kate Tiedemann School of Business and Finance

RLG 6126 Credit Hours: 3

Religion in America

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.

USF | College of Arts and Sciences | Religious Studies

RLG 6145 Credit Hours: 3

Religion and Politics

This interdisciplinary course examines the conceptual and historical connections between religion and politics as they impact political theory, theories of religion, US domestic policy, foreign affairs, and international relations.

USF | College of Arts and Sciences | Religious Studies

RLG 6196 Credit Hours: 3

Religion and Modernization

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.

USF | College of Arts and Sciences | Religious Studies

RLG 6327 Credit Hours: 3

Seminar: Ancient Religions and Literatures

A research seminar in some aspect of ancient religion and literature: Hebrew Bible, New Testament, Mithraism, Mystic Religions, Pseudepigrapha, and others taught in translation.

USF | College of Arts and Sciences | Religious Studies

RLG 6906 Credit Hours: 1-3

Independent Study

Independent study in which the student must have a contract with the instructor.

USF | College of Arts and Sciences | Religious Studies

RLG 6938 Credit Hours: 2-4

Special Topics in Religious Studies

Open to non-majors. Variable titles offered on topics of special interest.

USF | College of Arts and Sciences | Religious Studies

RLG 6971 Credit Hours: 2-19

Thesis: Master's

USF | College of Arts and Sciences | Religious Studies

RSD 6112 Credit Hours: 3

Advanced Rehabilitation Sciences

This course provides an in-depth analysis of theoretical and methodological issues in rehabilitation science research, education and practice.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

RSD 6921 Credit Hours: 1

Colloquium in Rehabilitation Sciences 2



Weekly meetings with faculty and guest speaker presentations on timely topics and current research in the field. Students may present results of projects in which they are involved or lead discussion of contemporary journal articles in rehabilitation sciences.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

RSD 7306 Credit Hours: 3
Rehabilitation Ethics

This course is designed to introduce the student to the social, moral and ethical dimensions of rehabilitative healthcare including informed consent, research on human subjects, health care allocation and disparities.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

RSD 7911 Credit Hours: 1
Mentored Research Apprenticeship

Directed research in rehabilitation sciences.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

RSD 7931 Credit Hours: 3
Special Topics in Chronic Disease

Creates a framework for understanding rehabilitation for individuals with chronic health conditions. Application of validated rehabilitation examination and intervention approaches or strategies that are consistent with evidence-based practice.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

RSD 7933 Credit Hours: 3
Special Topics in Veteran's Health/Reintegration

Understanding rehabilitation for veterans directed toward successful reintegration, long-term health, and holistic care. Application of validated rehabilitation examination and intervention approaches consistent with evidence-based practice.

USF | Morsani College of Medicine | School of Physical Therapy and Rehabilitation Sciences

RTV 5416 Credit Hours: 3
Race, Gender, Class issues in Media

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

SCE 5337 Credit Hours: 3
Methods of Secondary Science Education

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.

USF | College of Education I

SCE 5937 Credit Hours: 1-4
Selected Topics in Science Education

USF | College of Education I

SCE 6315 Credit Hours: 3
Teaching Elementary (K-5) School Science

This course addresses the concepts, materials, methods around elementary 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.

USF | College of Education I

SCE 6347 Credit Hours: 3
Methods for Interpretive and Transformative Standards Based Education

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.

USF | College of Education I

SCE 6444 Credit Hours: 3
Community Resources for Environmental Education

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.

USF | College of Education I

SCE 6634 Credit Hours: 3
Current Trends in Secondary Science Education

Curricular patterns and instructional practices in secondary science.

USF | College of Education I

SCE 6645 Credit Hours: 3
Mathematics and Science Education Policy, Change, and School Improvement



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.

USF | College of Education |

SCE 6735 Credit Hours: 3

Trends in Math and Science Education for Elementary Teachers

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.

USF | College of Education |

SCE 6744 Credit Hours: 3

Survey Update of Environmental Research Management Policies

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.

USF | College of Education |

SCE 6804 Credit Hours: 3

Physical Science for Middle Grade Teachers

The purpose of this course is to assist middle grade teachers in developing physical science content knowledge and experiencing first hand inquiry teaching.

USF | College of Education |

SCE 6838 Credit Hours: 3

Teaching Earth Space in Elementary

The purpose of this course is to assist elementary teachers in developing science content knowledge and experiencing first hand inquiry teaching.

USF | College of Education |

SCE 6865 Credit Hours: 3

Technology: Solving Societal Problems

Specific examples of mathematics/science/technology/society interaction are provided for integration into school-based mathematics and natural science courses.

USF | College of Education |

SCE 6876 Credit Hours: 3

Teaching Biology & Ocean Science in Middle Grades

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.

USF | College of Education |

SCE 6938 Credit Hours: 3

Topics in Science Education: Field Practicum

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.

USF | College of Education |

SCE 7076 Credit Hours: 3

Historical, Social, and Epistemological Foundations of Science Education

This course is to provide students with an interactive forum to review, analyze, evaluate and discuss topics related to historical, social and epistemological foundations in science education.

USF | College of Education |

SCE 7636 Credit Hours: 3

Advanced Trends in Science Education

The purpose of this course is to provide students with an advanced forum for interactive discussions of seminal and recent trends as they are conceptualized in contemporary science education research literature and realized in practice.

USF | College of Education |

SCE 7740 Credit Hours: 3

Doctoral Research in Science Education

This course prepares students for proposal writing including review of successful proposals and literature, developing research questions and objectives, presenting preliminary results and developing a research program. Required for Sci Ed PhD students.

USF | College of Education |

SCE 7910 Credit Hours: 1-19

Directed Research in Science Education

This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U.

USF | College of Education |

SCM 6006 Credit Hours: 3

Supply Chain Management

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.

USF | Muma College of Business | School of Marketing and Innovation

SCM 6200 Credit Hours: 3

Logistics and Physical Distribution Management

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.

USF | Muma College of Business | School of Marketing and Innovation

SCM 6935 Credit Hours: 3

Seminar in Supply Chain Management

This course employs a combination of lectures, cases, and discussions related to current topics in supply chain management. The course is led by faculty and/or invited guest speakers from the supply chain industry.

USF | Muma College of Business | School of Marketing and Innovation

SDS 6042 Credit Hours: 3

Introduction of Student Affairs

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.

USF | College of Education I

SDS 6344 Credit Hours: 3

Student Success in College

This course will draw upon Astin's Inputs-Environments-Outputs (IEO) to unpack student demographic information, pre-college characteristics, examine organizational behavior and practices that shape student experiences and outcomes in higher education.

USF | College of Education I

SDS 6501 Credit Hours: 4

Group Theory and Practicum: Children

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.

USF | College of Education I

SDS 6624 Credit Hours: 3

Ecology of Campus Life

Provides students with an understanding of the changing demographics, environmental and developmental issues facing college students.

USF | College of Education I

SDS 6645 Credit Hours: 3

Student Development Theory

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.

USF | College of Education I

SDS 6650 Credit Hours: 3

Organization and Administration of Student Affairs

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.

USF | College of Education I

SDS 6701 Credit Hours: 2

Issues in Diversity

Addresses individual and organizational issues of multiculturalism and diversity in higher education.

USF | College of Education I

SDS 6703 Credit Hours: 3

The Law and Student Affairs

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.

USF | College of Education I

SDS 6820 Credit Hours: 3-6

Internship in School Counseling

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.

USF | College of Education I

SDS 7642 Credit Hours: 1-4

Advanced Seminar in Student Affairs

This seminar will nurture students' creativity and enhance their appreciation for scholarly academic work and effective administrative practice in Student Affairs. Issues and trends in Student Affairs will also be studied.



USF | College of Education |

SDS 7644 Credit Hours: 3
Enrollment Management

Introduction to and overview of a multi-faceted process of enrollment management in higher education. The breadth of theory, models, and principles that contribute to the field of enrollment management will be explored.

USF | College of Education |

SDS 7945 Credit Hours: 1-6
Advanced Internship in Student Affairs Administration

Supervised field experiences in an approved functional area of Student Affairs in an institution of higher education that will involve administrative functions, applied research and program evaluation.

USF | College of Education |

SLA 7910 Credit Hours: 1-6
Directed Research in Second Language Acquisition/ Instructional Technology

This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U.

USF | College of Education |

SLA 7938 Credit Hours: 3
Advanced Seminar in Second Language Acquisition

This doctoral level seminar examines in depth the theory and research in the field of Second Language Acquisition. It builds upon the information and concepts presented in introductory SLA theory courses allowing students to more deeply and carefully explore selected topics.

USF | College of Education |

SMT 6315 Credit Hours: 3
Middle and Secondary STEM Methods

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.

USF | College of Education |

SOP 6068 Credit Hours: 3
Personality and Social Psychology

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.

USF | College of Arts and Sciences | Psychology

SOP 6709 Credit Hours: 3
Topics in Social Psychology

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).

USF | College of Arts and Sciences | Psychology

SOW 6105 Credit Hours: 3
Foundations in Human Behavior

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.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6126 Credit Hours: 2
Health, Illness, and Disability

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.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6235 Credit Hours: 3
Foundations of Social Welfare Policy

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.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6243 Credit Hours: 3
Working with Systems of Care to Benefit Infants and Toddlers

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.

USF | College of Behavioral and Community Sciences | School of Social Work



SOW 6342 Credit Hours: 3

Social Work Practice with Individuals

Application of clinical practice to work with individuals. Psychosocial model is emphasized. Professional laboratory develops skills in practice.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6362 Credit Hours: 3

Social Work Practice with Couples and Families

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.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6375 Credit Hours: 3

Advanced Social Work Macro Policy

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.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6426 Credit Hours: 1

Field Research I

This is the third in a series of four research courses. It provides the structure for supervision of graduate research projects.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6438 Credit Hours: 3

Evaluation of Clinical Practice in Diverse Setting

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.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6535 Credit Hours: 4

Field Instruction II

Supervised field instruction in a social service agency, consisting of 32 hours per week, plus a 2-hour practice seminar.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6539 Credit Hours: 4

Field Instruction IV

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.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6554 Credit Hours: 2

Field Instruction Sequence IB: Part-Time

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.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6556 Credit Hours: 2

Field Instruction Sequence IIB: Part-Time

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.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6558 Credit Hours: 2

Field Instruction Sequence IIIA: Part-Time

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.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 6900 Credit Hours: 1-3

Independent Study

A reading program in selected topics under supervision of a faculty member. A formal contract must be approved by School Director.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 7417 Credit Hours: 3

Advanced Statistics in Social Work Research

This course provides students a detailed and practical understanding of Adv. Statistical techniques that are of use to Social Work Academicians, Administrators, and Researchers as they conduct critical research into policy, practice, and social issues.



USF | College of Behavioral and Community Sciences | School of Social Work

SOW 7490 Credit Hours: 3

Foundations of Social Work Research Methods

This is a doctoral level course designed to prepare students on the role of research in the profession. This course will focus primarily on understanding and applying basic research methods within a social work context.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 7496 Credit Hours: 3

Qualitative Research Methods in Social Work

The course will assist the doctoral student to better understand and become equipped to fulfill a role as social work researcher. The course will consider the theoretical, scientific, and political issues related to qualitative research.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 7616 Credit Hours: 3

Advanced Clinical Practice with Complex Problems

Challenges the participants to access and utilize the most advanced evidence based knowledge to assess and recommend intervention for complex social problems. PR: Ph.D. Majors only.

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 7776 Credit Hours: 3

The Social Work Educator in the University

Further critical thinking about the role of the social work educator in the university. The doctoral candidate will be equipped to fulfill this role, consider issues related to university governance as well as social work ed. PR: majors only; Ph.D. stdt

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 7980 Credit Hours: 2-4

Dissertation Hours

Dissertation hours

USF | College of Behavioral and Community Sciences | School of Social Work

SOW 7982 Credit Hours: 3

Proposal Writing II

Guides doctoral students in preparing a dissertation proposal to be presented to the committee for final approval. The process

will be explored from concept formation through the preparation of a detailed written proposal. PR: Ph.D. Majors Only.

USF | College of Behavioral and Community Sciences | School of Social Work

SPA 5120 Credit Hours: 3

Psychoacoustics

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.

USF | College of Behavioral and Community Sciences | Communication Sciences and Disorders

SPA 5133C Credit Hours: 3

Speech Science Instrumentation

Underlying principles and laboratory exercises in the use of audio recording, acoustic analysis, and clinical instrumentation.

USF | College of Behavioral and Community Sciences | Communication Sciences and Disorders

SPA 5204 Credit Hours: 3

Advanced Clinical Phonology

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.

USF | College of Behavioral and Community Sciences | Communication Sciences and Disorders

SPA 5328 Credit Hours: 3

Rehabilitative Audiology for Adults

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.

USF | College of Behavioral and Community Sciences | Communication Sciences and Disorders

SPA 5506 Credit Hours: 1-8

Speech-Language Pathology and Audiology Practicum

Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.

USF | College of Behavioral and Community Sciences | Communication Sciences and Disorders

SPA 5552 Credit Hours: 3

Diagnostic Principles and Practices



The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6211 Credit Hours: 3

Advanced Vocal Disorders

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.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6232 Credit Hours: 3

Neuromotor Communication Disorders

A study of the medical, physical, occupational, speech, language, and hearing problems of the neuro-motorically impaired client. Therapy techniques are reviewed and evaluated.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6253 Credit Hours: 3

Speech Language Pathology Management of Complex Movement Disorders

This course covers neuroanatomy, etiology, symptoms, and evidence-based interventions for diagnosis and management of complex movement disorders associated with respiratory, speech, swallowing, and voice, and cognitive function, and dysfunction.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6307 Credit Hours: 3

Speech Perception and Sensorineural Hearing Loss

The course will provide an overview of the factors involved in quantifying speech perception ability in listeners with normal and impaired hearing.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6314 Credit Hours: 3

Electrophysiology

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.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6320 Credit Hours: 3

Aural Rehabilitation Across the Lifespan

This course will provide information and strategies for reducing the impact of hearing loss and/or auditory processing deficits on communication and related activities for individuals across the lifespan, using a person-centered approach.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6329 Credit Hours: 3

Educational Audiology

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.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6341 Credit Hours: 3

Principles of Amplification II

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.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6354 Credit Hours: 3

Hearing Conservation

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.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6393 Credit Hours: 3

Audiology Practice Management

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.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6404 Credit Hours: 3

Language Learning Disabilities

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.



**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6417 Credit Hours: 3
Communication + Cognition in Traumatic Brain Injury

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.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6503 Credit Hours: 3
Entry Level Practicum

Participation in speech-language pathology and audiology practicum in the University clinical laboratory.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6508 Credit Hours: 3-6
Advanced Audiology Practicum

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.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6535L Credit Hours: 3
Audiology Clinical Laboratory I

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.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6553 Credit Hours: 3
Advanced Differential Diagnosis and Treatment Planning

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 [\[\[permalink=1183|tooltip:{{title:1}}\]prefix%code%\[\[/permalink\]\]](#).

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6564 Credit Hours: 3

Seminar in Aging, Cognition, and Communication

1. This course focuses on the interdependence of communication and cognition in older adults, emphasizing relationships among physical health, social context, cognition, and communication.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6571 Credit Hours: 1-2
Ethical Practice Issues in Communication Sciences and Disorders

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.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6674 Credit Hours: 3
Curriculum Procedures and Materials for Hearing Impaired

Curricular adaptation, methods, techniques, and organization necessary for teaching the hearing impaired.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6805 Credit Hours: 3
Research Procedures in Communication Sciences and Disorders

Advanced research and experimental design techniques employed in clinical and laboratory settings in speech-language pathology and audiology.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6910 Credit Hours: 1-19
Directed Research

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 6971 Credit Hours: 2-19
Thesis: Master's

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 7330 Credit Hours: 3
Advanced Vestibular Evaluation and Treatment

Provides students with advanced concepts, protocols, and research activity in vestibular assessment and rehabilitation.



**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 7332 Credit Hours: 3

Advanced Electrophysiology

The purpose of this course is to provide students with the fundamentals and advanced clinical practice of human electrophysiology as it applies to audiology and hearing science. The course topics will include a review of the neural generators.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 7415 Credit Hours: 3

Neurolinguistic Theories of Language

Neurolinguistic theories as appropriate to the discipline are presented and discussed in relationship to language development and disorders. Information from linguistics, psycho-linguistics, artificial intelligence, neuroanatomy, and other sciences are applied to Language Science.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 7802 Credit Hours: 3

Critical Analysis of Literature in CSD

Provides a structure within which students learn to critically evaluate published research papers and begin to explore a research area of potential interest to them in the field.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 7807 Credit Hours: 3

Critical Synthesis of Literature in CSD

Preparing a systematic literature review based upon the student's research interest. Students will identify and apply scientific criteria to primarily experimental research and prepare a synthesis of literature with a goal of guiding future research.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 7812 Credit Hours: 3

Research Foundations of Hearing Science

This course introduces doctoral students to fundamental topics in the area of hearing science. Students will learn about the research foundations of the field directly from seminal research articles and other primary sources.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 7834 Credit Hours: 1

Audiology Doctoral Project Seminar

A forum for discussion of progress and resolution of problems/questions related to the Audiology Doctoral Project (ADP). Restricted to AuD majors; repeatable for credit.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPA 7931 Credit Hours: 3

Seminar in Communication Sciences and Disorders

Addresses the central research and clinical issues related to the diagnosis and treatment of communication disorders. Content of seminars varies with instructor's expertise.

**USF | College of Behavioral and Community Sciences |
Communication Sciences and Disorders**

SPB 6116 Credit Hours: 3

Sport and Entertainment Finance

This course provides the opportunity to apply financial concepts, tools, and techniques to the global sport and entertainment industry.

USF | Muma College of Business |

SPB 6605 Credit Hours: 3

Sport and Social Issues

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.

USF | Muma College of Business |

SPB 6706 Credit Hours: 3

Sport Business Analytics

Students are introduced to the skills, technologies, applications and practices essential to understanding and evaluating business performance in sport and entertainment.

USF | Muma College of Business |

SPB 6719 Credit Hours: 3

Sport and Entertainment Marketing Strategy

Provides an historical overview of sport marketing and examines the application of marketing principles to collegiate and professional sport and sport-related organizations.

USF | Muma College of Business |

SPB 6807 Credit Hours: 3

Social Media in Sport

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.

USF | Muma College of Business |



SPB 6818 Credit Hours: 3

Economics of Sport

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.

USF | Muma College of Business |

SPC 5930 Credit Hours: 3

Topics in Discourse

Variable topics course.

USF | College of Arts and Sciences | Communication

SPC 6236 Credit Hours: 3

Contemporary Rhetorical Theory

Basic texts in 20th century rhetorical theory. Readings may vary.

USF | College of Arts and Sciences | Communication

SPC 6391 Credit Hours: 3

Interpersonal Communication

Study of theory and research related to interpersonal communication.

USF | College of Arts and Sciences | Communication

SPC 6645 Credit Hours: 3

Rhetoric in Society

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.

USF | College of Arts and Sciences | Communication

SPC 6726 Credit Hours: 3

Communication in Close Relationships

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.

USF | College of Arts and Sciences | Communication

SPC 6903 Credit Hours: 1-4

Directed Readings

USF | College of Arts and Sciences | Communication

SPC 6934 Credit Hours: 1-4

Selected Topics in Communication

USF | College of Arts and Sciences | Communication

SPC 7900 Credit Hours: 1-3

Doctoral Research Tutorial

Advanced directed research.

USF | College of Arts and Sciences | Communication

SPC 7980 Credit Hours: 2-19

Dissertation: Doctoral

USF | College of Arts and Sciences | Communication

SPN 5567 Credit Hours: 3

Modern Spanish Civilization

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.

USF | College of Arts and Sciences | World Languages

SPN 6846 Credit Hours: 3

Spanish Paleography and Textual Criticism

Analysis of Spanish historical documents, paleography, and textual criticism.

USF | College of Arts and Sciences | World Languages

SPS 6196 Credit Hours: 4

Assessment of Child and Adolescent Personality

Conceptualizations of personality and personality assessment; perspectives of disturbed and disturbing behavior, and personality assessment measures.

USF | College of Education |

SPS 6198 Credit Hours: 4

Psychoeducational Diagnosis and Prescription II

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.

USF | College of Education |

SPS 6701C Credit Hours: 4

Psychoeducational Interventions with Children and Adolescents II

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.

USF | College of Education I

SPS 6936 Credit Hours: 1-3

Graduate Seminar in School Psychology

Seminars to explore current matters of professional concern in school psychology, such as trends, problems, legal and ethical issues, and empirical bases of techniques.

USF | College of Education I

SPS 6941 Credit Hours: 1-4

Practicum in Psychoeducational Interventions

Course provides practical experiences and implementation of skills discussed and acquired in the intervention courses within settings relevant to school psychology.

USF | College of Education I

SPS 6971 Credit Hours: 2-19

Thesis: Masters/Educational Specialist

USF | College of Education I

SPS 7205 Credit Hours: 2-4

Advanced Consultation Processes in School Psychology

Advanced topics and techniques in consultation processes for advanced school psychologists.

USF | College of Education I

SPS 7701 Credit Hours: 2-4

Advanced Child and Adolescent Psychotherapy

Covers advanced topics and techniques in child and adolescent psychotherapy relevant to school psychological services.

USF | College of Education I

SPS 7936 Credit Hours: 1-3

Advanced Seminar in School Psychology

Exploration of current issues and trends in school psychology, as it relates to research and professional practice, and the history and systems of education and psychology.

USF | College of Education I

SPW 5135 Credit Hours: 3

Colonial Spanish American Literature

Introduction to Colonial Spanish American Literature from the discovery through the Romantic Period.

USF | College of Arts and Sciences | World Languages

SPW 5375 Credit Hours: 3

Latin American Short Story

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.

USF | College of Arts and Sciences | World Languages

SPW 5405 Credit Hours: 3

Medieval Literature

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.

USF | College of Arts and Sciences | World Languages

SPW 5597 Credit Hours: 3

Latin American Culture in Fantastic Literature and Film

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.

USF | College of Arts and Sciences | World Languages

SPW 5725 Credit Hours: 3

Generation of 1898

The major figures of the period and their main followers.

USF | College of Arts and Sciences | World Languages

SPW 6427 Credit Hours: 3

Golden Age Novel

Realistic prose-fiction of the Renaissance and Golden Age.

USF | College of Arts and Sciences | World Languages

SPW 6775 Credit Hours: 3

Caribbean Literature

Emphasis on contemporary Cuban and Puerto Rican literature.

USF | College of Arts and Sciences | World Languages

SPW 6910 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | World Languages

SSE 5331 Credit Hours: 3

Foundations, Curriculum & Instruction of Social Science Education



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.

USF | College of Education |

SSE 5641 Credit Hours: 3

Reading and Basic Skills in the Content Area

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.

USF | College of Education |

SSE 6617 Credit Hours: 3

Trends in K-6 Social Science Education

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.

USF | College of Education |

SSE 6906 Credit Hours: 1-6

Independent Study in Social Sciences Education

An opportunity for advanced graduate students to examine a specific issue or topic in the field of social science education.

USF | College of Education |

SSE 6947 Credit Hours: 6

Internship in Secondary Education for Science

Students will work with a cooperating teacher and university supervisor to complete their internship requirements in a classroom setting assigned by the university.

USF | College of Education |

SSE 7710 Credit Hours: 3

Research in Social Science Education

This course prepares doctoral students in social science education to be active scholars. Students engage in a preliminary research study, examine theoretical, technical, ethical and practical issues related to conduct of research in education.

USF | College of Education |

SSE 7730 Credit Hours: 3

Philosophy of Social Science Education

This advanced graduate course allows students to research the philosophical and theoretical underpinnings of a social science

education and the role of a university as well as to develop a personal, philosophical construct.

USF | College of Education |

SSE 7910 Credit Hours: 1-9

Directed Research in Social Sciences Education

This course permits a doctoral student to conduct advanced research and to pursue specific areas of interest with a faculty member as supervisor. A contract is required with the faculty member. S/U

USF | College of Education |

SSE 7980 Credit Hours: 2-24

Dissertation in Social Science Education

USF | College of Education |

STA 5326 Credit Hours: 3

Mathematical Statistics I

Sample distribution theory, point & interval estimation, optimality theory, statistical decision theory, and hypothesis testing.

USF | College of Arts and Sciences | Mathematics and Statistics

STA 5526 Credit Hours: 3

Non-Parametric Statistics

Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.

USF | College of Arts and Sciences | Mathematics and Statistics

STA 6206 Credit Hours: 4

Stochastic Processes

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.

USF | College of Arts and Sciences | Mathematics and Statistics

STA 6447 Credit Hours: 3

Probability Theory II

Characteristic functions, central limit theorem, martingale inequalities and convergence theorems, optional stopping, ergodic theorems and applications.

USF | College of Arts and Sciences | Mathematics and Statistics

STA 6876 Credit Hours: 3

Time Series Analysis

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.

USF | College of Arts and Sciences | Mathematics and Statistics



SYA 6205 Credit Hours: 3

Social Construction of Reality

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.

USF | College of Arts and Sciences | Communication

SYA 6315 Credit Hours: 3

Qualitative Research Methods

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.

USF | College of Arts and Sciences | Sociology

SYA 6405 Credit Hours: 3

Sociological Statistics

Logic and application of parametric and nonparametric statistical analysis for sociological data.

USF | College of Arts and Sciences | Sociology

SYA 6912 Credit Hours: 1-19

Directed Research

USF | College of Arts and Sciences | Sociology

SYA 6971 Credit Hours: 2-19

Thesis: Master's

USF | College of Arts and Sciences | Sociology

SYA 7939 Credit Hours: 3

Selected Topics for Ph.D. Students

In this course, doctoral students will examine theoretical, methodological and/or substantive scholarship in a variety of areas related to identity, community and sustainability in global context.

USF | College of Arts and Sciences | Sociology

SYA 7988 Credit Hours: 1-6

Dissertation Proposal

This course will guide Ph.D. students toward the completion of their dissertation proposal under close supervision of their faculty mentors.

USF | College of Arts and Sciences | Sociology

SYD 6706 Credit Hours: 3

Race and Ethnicity

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.

USF | College of Arts and Sciences | Sociology

SYO 6255 Credit Hours: 3

Seminar in Sociology of Education

Sociological analysis of the institution of education. Primary attention directed toward class, race, and gender inequalities and educational transformations.

USF | College of Arts and Sciences | Sociology

SYP 6007 Credit Hours: 3

Constructing Social Problems

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.

USF | College of Arts and Sciences | Sociology

SYP 6016 Credit Hours: 3

Emotions in Everyday Life

Explores the role of emotions in the everyday lives of individuals, within the micro-social contexts of identities, interactions, and social relationships.

USF | College of Arts and Sciences | Sociology

SYP 6425 Credit Hours: 3

Sociology of Consumer Culture

This course critically examines the key theories and analyses of American consumerism with special attention to inequalities of race, class, and gender.

USF | College of Arts and Sciences | Sociology

TAX 5015 Credit Hours: 3

Federal Taxation of Business Entities

Tax issues encountered by small businesses. Includes tax planning, capital formation and preservation, tax compliance and tax alternatives.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

TAX 6065 Credit Hours: 3

Contemporary Issues in Taxation

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

USF | Muma College of Business | Lynn Pippenger School of Accountancy



TAX 6445 Credit Hours: 3

Estate Planning

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.

USF | Muma College of Business | Lynn Pippenger School of Accountancy

THE 5909 Credit Hours: 1-6

Directed Studies

Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.

USF | College of The Arts | School of Theatre and Dance

THE 6175 Credit Hours: 3

New British Theatre and Drama

A study of contemporary theatrical practice and key dramatic texts in the British Isles. Departmental permit required of majors and non-majors.

USF | College of The Arts | School of Theatre and Dance

TSL 5086 Credit Hours: 3

ESOL II-Secondary Language & Literacy Acquisition in Children & Adolescents

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.

USF | College of Education I

TSL 5242 Credit Hours: 3

ESOL III-Language Principles, Acquisition & Assessment for English Language Learners

This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to LEP students.

USF | College of Education I

TSL 5326 Credit Hours: 3

L2 Reading for ESOL Students across Content Areas

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.

USF | College of Education I

TSL 5372 Credit Hours: 3

ESOL Curriculum and Instruction

Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.

USF | College of Arts and Sciences | World Languages

TSL 5525 Credit Hours: 3

Cross-Cultural Issues in ESL

Lecture course on cultural issues in Teaching English as a Second/Foreign language.

USF | College of Arts and Sciences | World Languages

TSL 6133 Credit Hours: 3

Curriculum and Instructional Materials Development

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.

USF | College of Education I

TSL 6390 Credit Hours: 3

Instructional Methods and Strategies for Teaching ESOL

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.

USF | College of Education I

TSL 6700 Credit Hours: 3

ESOL for School Psychologists and School Counselors

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.

USF | College of Education I

TTE 5205 Credit Hours: 3

Traffic Systems Engineering

Traffics models, intersection analysis, capacity analysis, data methods collection, parking studies, volume and speed studies, freeway management, and advanced technologies.

USF | College of Engineering | Civil and Environmental Engineering

TTE 5501 Credit Hours: 3

Transportation Planning and Economics



Fundamentals of urban transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, evaluation an choice of transportation alternatives.

USF | College of Engineering | Civil and Environmental Engineering

TTE 6267 Credit Hours: 3
Traffic Flow Theory

A systematic overview of the definition, taxonomy and models of highway traffic flow as well as intelligent transportation systems.

USF | College of Engineering | Civil and Environmental Engineering

TTE 6307 Credit Hours: 3
Statistical and Econometric Methods I

Applications of various statistical and econometric model-estimation methods that are used in transportation data analysis and other subject areas that deal with data analysis.

USF | College of Engineering | Civil and Environmental Engineering

TTE 6501 Credit Hours: 3
Statistical and Econometric Methods II

Advanced and new model estimation techniques in the application of various statistical and econometric analysis.

USF | College of Engineering | Civil and Environmental Engineering

TTE 6507 Credit Hours: 3
Travel Demand Modeling

Statistical modeling of travel demand forecasting; emphasis on trip generation and trip chaining.

USF | College of Engineering | Civil and Environmental Engineering

TTE 6651 Credit Hours: 3
Public Transportation

Planning, design and operation of public transportation systems; costs and productivity of transit; impacts of transit on travel behavior and urban form; ridership forecasting; public transportation policy analysis.

USF | College of Engineering | Civil and Environmental Engineering

TTE 6657 Credit Hours: 3
Sustainable Transportation

Overview & analysis of concepts & designs for sustainable transportation from global-to-local, interdisciplinary perspective, including pedestrians, bicyclists, & public

transportation. Addresses economy, environment, and equity. Hands-on design project.

USF | College of Engineering | Civil and Environmental Engineering

TTE 6835 Credit Hours: 3
Pavement Design

Analysis of flexible and rigid pavements, equivalent single wheel loads, pavement material and their properties, pavement evaluation, reliability, flexible and rigid pavement design, overlay design, pavement life-cycle cost analysis.

USF | College of Engineering | Civil and Environmental Engineering

TTE 6930 Credit Hours: 1
Graduate Transportation Seminar

Seminars, presentations, and discussions of contemporary transportation issues.

USF | College of Engineering | Civil and Environmental Engineering

URP 6056 Credit Hours: 3
City and Regional Planning

A review of goals, objectives, and interrelationships between regional and city planning; intergovernmental and policy issues. Cross-listed with Political Science.

USF | College of Arts and Sciences | School of Public Affairs

URP 6100 Credit Hours: 3
Planning Theory and History

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.

USF | College of Arts and Sciences | School of Public Affairs

URP 6126 Credit Hours: 3
Zoning and Local Economic Development

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.

USF | College of Arts and Sciences | School of Public Affairs

URP 6232 Credit Hours: 3
Research Methods for Urban and Research Planning

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.

USF | College of Arts and Sciences | School of Public Affairs



URP 6401 Credit Hours: 3

Planning for Resilient Communities

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.

USF | College of Arts and Sciences | School of Public Affairs

URP 6422 Credit Hours: 3

Environmental & Planning Issues in Coastal Communities

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.

USF | College of Arts and Sciences | School of Public Affairs

URP 6444 Credit Hours: 3

Global & Community Food Systems

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.

USF | College of Arts and Sciences | School of Public Affairs

URP 6711 Credit Hours: 3

Multimodal Transportation Planning

This course focuses on multimodal transportation planning, including planning for roadways, public transportation, bicycling, pedestrians, and the movement of freight.

USF | College of Arts and Sciences | School of Public Affairs

URP 6910 Credit Hours: 1-6

Supervised Research

This course will allow graduate students to earn credits while working on an independent research project that is focused in Urban and Regional Planning.

USF | College of Arts and Sciences | School of Public Affairs

URP 6940 Credit Hours: 3-6

Internship in Urban and Regional Planning

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.

USF | College of Arts and Sciences | School of Public Affairs

VIC 6007 Credit Hours: 3

Visual Communication Theory

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

VIC 6316 Credit Hours: 3

Brand Management

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.

USF | College of Arts and Sciences | Zimmerman School of Advertising and Mass Communications

WST 5934 Credit Hours: 1-4

Selected Topics

Study of current research methods and scholarship on women from a multidisciplinary perspective.

USF | College of Arts and Sciences | Women's and Gender Studies

WST 6001 Credit Hours: 3

Feminist Research and Methodology

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.

USF | College of Arts and Sciences | Women's and Gender Studies

WST 6005 Credit Hours: 3

Women and Policy

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.

USF | College of Arts and Sciences | Women's and Gender Studies

WST 6338 Credit Hours: 3

Advanced Feminist Theories of Media and Popular Culture

This course surveys advanced feminist theoretical approaches to visual regimes, surveillance, scopophilia, encoding, representation, reception, pro-suming, commodification, pranking, and culture jamming.

USF | College of Arts and Sciences | Women's and Gender Studies



WST 6560 Credit Hours: 3

Advanced Feminist Theory

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.

USF | College of Arts and Sciences | Women's and Gender Studies

WST 6900 Credit Hours: 1-3

Directed Readings

Supervised program of intensive readings of an interdisciplinary nature focusing on women. Student must have contract with instructor.

USF | College of Arts and Sciences | Women's and Gender Studies

WST 6936 Credit Hours: 3

Selected Topics in Women's Studies

Content varies according to scholarship focus of students and instructor. Repeatable-- content and instructor will vary.

USF | College of Arts and Sciences | Women's and Gender Studies

ZOO 5463C Credit Hours: 4

Herpetology

Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.

USF | College of Arts and Sciences | Integrative Biology

ZOO 6455 Credit Hours: 1

Advances in Ichthyology

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.

USF | College of Arts and Sciences | Integrative Biology