GRADUATE CATALOG
2005-2006
Mission of the Graduate School
The Mission of the Graduate School at the University of South Florida is to stimulate, encourage and support graduate education efforts that build national distinction and are characterized by innovation and by increasing contribution to the social, cultural, economic, health and technological development needs of the region and state.

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This catalog is effective for the 2005-2006 academic year. This catalog includes all policies, procedures, and program and course descriptions in effect at the time of publication. USF reserves the right to repeal, change, or modify the policies, procedures, programs, 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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2004-2005 PDF Version
2003-2004 PDF Version
2001-2003 Catalog and PDF Version
2001-2003 Updates
1999-2001 Catalog
1999-2001 PDF Version
# Table of Contents

Section 1  Welcome to Graduate School .......................................................... 1

Section 2  USF: A Multi-Campus National Research Institution .......................................................... 2
  USF Mission, Goals, Values, Vision, Accreditation .......................................................... 2
  University Administration ............................................................................................ 3
  Regional Campuses ..................................................................................................... 3
  Contact Information ................................................................................................. 4
  Academic Calendar ..................................................................................................... 5

Section 3  Graduate Admissions ................................................................. 6
  University Admissions Criteria and Policies ............................................................. 6
    International Applicants .......................................................................................... 6
    Application Procedures ......................................................................................... 7
    Application Checklist ............................................................................................ 7
    Application Fee ........................................................................................................ 7
    Transcripts ................................................................................................................ 7
    Test Scores ............................................................................................................... 7
    Residency Policy ...................................................................................................... 7
    Application Documents Access/Forward/Return Policy ........................................... 8
    Additional Requirements of Programs .................................................................... 8
    Final Admission Criteria ...................................................................................... 8
    Provisional Admission Criteria ............................................................................. 8
    Exception Admission Criteria ............................................................................... 8
    Conditional Admission Criteria ............................................................................ 9
    Deferment of Admission Request ......................................................................... 9
    Update of Admission Request .............................................................................. 9
    Denial of Admission/Appeal for Reconsideration Criteria ...................................... 9
    Reinstatement of Admission Request .................................................................... 9
    Change of Program Request ................................................................................... 9
    Student with Disabilities Policy ............................................................................. 10

Section 4  Registration and General Information ........................................ 11
  Registration Information .......................................................................................... 11
    Medical Requirements for Registration .................................................................. 11
    Administrative Holds ............................................................................................ 11
    Equal Opportunity Policy ....................................................................................... 11
  Academic Term and Student Information ................................................................ 12
    Semester System ..................................................................................................... 12
    Academic Load ........................................................................................................ 12
    Academic Standing .................................................................................................. 12
    Student Definitions ................................................................................................. 12
    Degree Seeking Student ......................................................................................... 12
    Graduate Certificate Seeking Student ................................................................... 12
    Non-Degree Seeking Student ................................................................................ 12
   Transient Student .................................................................................................... 12
  Student Records Policy ............................................................................................. 13
USF Graduate Catalog  2005-2006

Academic Record................................................................. 13
Release of Student Information .............................................. 13
Exclusions ............................................................................. 13
Course Information............................................................... 13
Availability of Courses.......................................................... 13
Course Attendance at First Class Meeting –
    Policy for Graduate Students ........................................... 13
Course Descriptions.............................................................. 14
Adds ..................................................................................... 14
Drops ................................................................................... 14
Auditing Privileges and Fees .................................................. 14
Cancellation before First Class Meeting................................. 14
Withdrawal ............................................................................ 14

Section 5  Tuition, Fees, and Financial Information................................. 15
Tuition.................................................................................... 15
Veteran Deferment Benefits...................................................... 15
Financial Aid .......................................................................... 15

Section 6  Academic Policies ........................................................... 16
Student Responsibilities............................................................ 16
Student Conduct ...................................................................... 16
Academic Dishonesty and Disruption of Academic Process........ 16
    Plagiarism........................................................................ 16
    Punishment Guidelines....................................................... 17
    Cheating ........................................................................ 17
    Punishment Guidelines for Academic Dishonesty............... 18
    Disruption of Academic Process ....................................... 18
    Punishment Guidelines for Disruption of Academic Process 18
Procedures for Handling Student Violations Involving Alleged
    Academic Dishonesty and Disruption of Academic Process 18
    Academic Committee Pre-Hearing Procedure .................... 19
    Hearings ......................................................................... 19
    Standards and Discipline .....................................................20
    Due Process Rights ............................................................. 20
University Academic Grievance Procedures.............................. 20
Appeals ............................................................................... 23
Graduate Catalog .................................................................... 23
Student’s Choice of Catalog ..................................................... 23
Enrollment Requirements......................................................... 24
    USF Full-time Student Definition ........................................ 24
    Continuous Enrollment for all Graduate Students ............... 24
    Reinstatement following Non-Enrollment ......................... 24
    Enrollment during Comprehensive Exams and
        Admission to Candidacy ................................................ 24
    Dissertation Hours ........................................................... 24
    Enrollment during Semester of Thesis Submission ............... 24
    Enrollment during Semester of Graduation.......................... 24
    Enrollment for Graduate, Teaching, and Research Assistants 24
    Leaves of Absence (LOA) ...................................................... 24
Academic Standards and Grades ............................................ 25
    In Good Standing ........................................................... 25
    Grade Point Average (GPA) ................................................. 25
    Graduate Grading System ..................................................... 25
        Plus/Minus Grading ........................................................ 25
        Satisfactory/Unsatisfactory (S/U) ...................................... 26
Incomplete (I) ..................................................................... 26
Missing (M) ........................................................................ 26
Continuing Registration Grades (Z) ................................... 26
Probation ......................................................................................... 26
Withdrawal (W)............................................................................... 27
Transfer of Credit............................................................................. 27
Change of Graduate Programs ................................................................ 27
Dual Degree Programs........................................................................ 27
Off-Campus Courses and Programs.................................................. 27

Section 7 University Degree Requirements .................................................. 28
Student Responsibilities........................................................................ 28
Graduate Faculty Definition........................................................................ 28
Master’s Degree Requirements ................................................................. 28
Minimum Hours .............................................................................. 28
Time Limitations ............................................................................. 28
Enrollment Requirements ...................................................................... 29
Major Professor ............................................................................... 29
Thesis Committee ............................................................................ 29
Composition............................................................................... 29
Member Definition ........................................................................... 29
Approval................................................................................ 29
Changes to Committee ..................................................................... 29
Masters Comprehensive Examination............................................... 29
Thesis ...................................................................................... 30
Manuscript Processing Fee ......................................................... 30
Exchange of Thesis for Non-Thesis Credit .......................................... 30
Thesis Defense ........................................................................... 30
Thesis Final Submission Guidelines.............................................. 30
Mandatory Electronic Submission.................................................. 30
Changes after Publication .................................................................. 30
Thesis Change of Grade ..................................................................... 30

Education Specialist Degree (Ed.S.) Requirements ...................................... 30
Ed.S. Thesis ............................................................................. 30
Ed.S. Project .................................................................................. 30

Doctoral Degree (Au.D., Ed.D., Ph.D., D.P.T.) Requirements............................. 31
Minimum Hours .............................................................................. 31
Time Limitations............................................................................. 31
Enrollment Requirements ...................................................................... 31
Academic Residency ........................................................................ 31
Major Professor ............................................................................... 31
Doctoral Committee ......................................................................... 32
Composition ............................................................................. 32
Member Definition ........................................................................... 32
Approval ................................................................................ 32
Changes to Committee ..................................................................... 32
Doctoral Comprehensive Qualifying Examination ........................................ 32
Admission to Candidacy ...................................................................... 32
Dissertation ................................................................................ 33
Manuscript Processing Fee ......................................................... 33
Dissertation Defense ........................................................................ 33
Outside Chair of the Defense ......................................................... 33
Procedures for Conducting the Oral Defense ...................................... 33
Dissertation Final Submission Guidelines.............................................. 34
Mandatory Electronic Submission .................................................. 35
Changes after Publication .................................................................. 35
Section 16  College of Education

Adult Education (M.A.) ........................................................................................................ 213
Adult Education Concentration (M.Ed.)* ........................................................................... 220
Adult Education Concentration (Ed.S.) ........................................................................... 222
Adult Education Concentration (Ph.D.) ........................................................................... 224
Business and Office Education (M.A.) ........................................................................... 226
Business and Office Education Concentration (M.Ed.)* .................................................. 227
Career and Technical Education (M.A.) ......................................................................... 228
College Student Affairs Concentration (M.Ed.) ........................................................... 229
College Teaching: Biology Concentration (M.A.) ......................................................... 231
College Teaching: Business Concentration (M.A.) ......................................................... 232
College Teaching: Chemistry Concentration (M.A.) ....................................................... 233
College Teaching: Economics Concentration (M.A.) ..................................................... 234
College Teaching: Engineering Concentration (M.A.) .................................................... 235
College Teaching: English Concentration (M.A.) .......................................................... 236
College Teaching: French Concentration (M.A.) ............................................................ 237
College Teaching: Geography Concentration (M.A.)* .................................................... 238
College Teaching: Geology Concentration (M.A.) .......................................................... 239
College Teaching: History Concentration (M.A.) ........................................................... 240
College Teaching: Mathematics Concentration (M.A.) ................................................... 241
College Teaching: Physics Concentration (M.A.) ............................................................ 242
College Teaching: Political Science Concentration (M.A.) ............................................ 243
College Teaching: Sociology Concentration (M.A.) ....................................................... 244
College Teaching: Spanish Concentration (M.A.) ........................................................... 245
College Teaching: Speech Communication Concentration (M.A.) ............................... 246
Counselor Education (M.A.) ........................................................................................... 247
Counselor Education Concentration (Ed.S.) .................................................................... 249
Counselor Education Concentration (Ph.D.) ................................................................... 250
Curriculum and Instruction (M.Ed.) ................................................................................ 251
Curriculum and Instruction (Ed.S.) ................................................................................ 252
Curriculum and Instruction (Ph.D.) ................................................................................ 253
Distributive and Marketing Education (M.A.)* .............................................................. 255
Distributive Education Concentration (M.Ed.)* ............................................................. 256
Early Childhood Education (M.A.) .................................................................................. 257
Early Childhood Education Concentration (M.Ed.) ........................................................ 258
Early Childhood Education Concentration (Ed.S.)* ....................................................... 259
Educational Leadership (M.Ed.) ...................................................................................... 261
Educational Leadership (Ed.S.) ...................................................................................... 262
Educational Leadership (Ed.D.) ...................................................................................... 263
Educational Leadership: College Leadership Concentration (Ed.D.) ......................... 264
Educational Program Development (Ed.D.) .................................................................. 266
Elementary Education (M.A.) ......................................................................................... 267
Elementary Education: Elementary Curriculum Concentration (M.A.) ................. 268
Elementary Education: Language Arts Concentration (M.A.)* .................................... 269
Elementary Education/ESOL (M.A.T.) ........................................................................... 270
Elementary Education Concentration (M.Ed.)* .............................................................. 271
Elementary Education Concentration (Ed.S.) ................................................................. 272
Elementary Education Concentration (Ph.D.)* ............................................................... 273
English Education (M.A.) ............................................................................................... 274
English Education (M.A.T.) ........................................................................................... 275
English Education Concentration (Ed.D.)* .................................................................... 276
Foreign Language Education (M.A.) .............................................................................. 279
<table>
<thead>
<tr>
<th>Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language Education: French Concentration (M.A.)</td>
<td>280</td>
</tr>
<tr>
<td>Foreign Language Education: German Concentration (M.A.)</td>
<td>281</td>
</tr>
<tr>
<td>Foreign Language Education: Spanish Concentration (M.A.)</td>
<td>282</td>
</tr>
<tr>
<td>Foreign Language Education (M.A.T.)</td>
<td>283</td>
</tr>
<tr>
<td>Foreign Language Education Concentration (M.Ed.)</td>
<td>285</td>
</tr>
<tr>
<td>Higher Education, Administration Concentration (Ed.S.)*</td>
<td>286</td>
</tr>
<tr>
<td>Higher Education, Community College Teaching Concentration (Ed.S.)*</td>
<td>287</td>
</tr>
<tr>
<td>Higher Education, Administration Concentration (Ph.D.)</td>
<td>288</td>
</tr>
<tr>
<td>Higher Education, Community College Teaching Concentration (Ph.D.)</td>
<td>290</td>
</tr>
<tr>
<td>Industrial Arts – Technology Education Concentration (M.Ed.)*</td>
<td>282</td>
</tr>
<tr>
<td>Instructional Technology Concentration (M.Ed.)</td>
<td>293</td>
</tr>
<tr>
<td>Instructional Technology Concentration (Ed.S.)</td>
<td>294</td>
</tr>
<tr>
<td>Instructional Technology Concentration (Ph.D.)</td>
<td>295</td>
</tr>
<tr>
<td>Interdisciplinary Education Concentration (M.Ed.)*</td>
<td>296</td>
</tr>
<tr>
<td>Interdisciplinary Education Concentration (Ed.S.)</td>
<td>297</td>
</tr>
<tr>
<td>Interdisciplinary Education Concentration (Ph.D.)</td>
<td>298</td>
</tr>
<tr>
<td>Interdisciplinary Education, Second Language Acquisition Concentration (Ph.D.)*</td>
<td>299</td>
</tr>
<tr>
<td>Mathematics Education (M.A.)</td>
<td>300</td>
</tr>
<tr>
<td>Mathematics Education: Middle Grades Mathematics (5-9) Concentration (M.A.T.)</td>
<td>302</td>
</tr>
<tr>
<td>Mathematics Education Concentration (M.Ed.)</td>
<td>304</td>
</tr>
<tr>
<td>Mathematics Education Concentration (Ed.S.)</td>
<td>305</td>
</tr>
<tr>
<td>Mathematics Education Concentration (Ph.D.)</td>
<td>306</td>
</tr>
<tr>
<td>Measurement and Evaluation Concentration (M.Ed.)</td>
<td>308</td>
</tr>
<tr>
<td>Measurement and Evaluation Concentration (Ed.S.)</td>
<td>310</td>
</tr>
<tr>
<td>Measurement and Evaluation Concentration (Ph.D.)</td>
<td>312</td>
</tr>
<tr>
<td>Middle School Education, English Education Concentration (M.Ed.)*</td>
<td>315</td>
</tr>
<tr>
<td>Middle School Education, Mathematics Education Concentration (M.Ed.)*</td>
<td>316</td>
</tr>
<tr>
<td>Middle School Education, Science Education Concentration (M.Ed.)*</td>
<td>317</td>
</tr>
<tr>
<td>Middle School Education, Social Studies Education Concentration (M.Ed.)*</td>
<td>318</td>
</tr>
<tr>
<td>Music Education Concentration (Ed.S.)*</td>
<td>319</td>
</tr>
<tr>
<td>Music Education Concentration (Ph.D.)</td>
<td>320</td>
</tr>
<tr>
<td>Physical Education (M.A.)</td>
<td>321</td>
</tr>
<tr>
<td>Physical Education: Exercise Science Concentration (M.A.)</td>
<td>323</td>
</tr>
<tr>
<td>Reading Education (M.A.)</td>
<td>324</td>
</tr>
<tr>
<td>Reading Education Concentration (M.Ed.)*</td>
<td>325</td>
</tr>
<tr>
<td>Reading-Language Arts Education Concentration (Ed.S.)</td>
<td>326</td>
</tr>
<tr>
<td>Reading-Language Arts Education Concentration (Ph.D.)</td>
<td>327</td>
</tr>
<tr>
<td>School Psychology (M.A.)</td>
<td>328</td>
</tr>
<tr>
<td>School Psychology Concentration (Ed.S.)</td>
<td>329</td>
</tr>
<tr>
<td>School Psychology Concentration (Ph.D.)</td>
<td>331</td>
</tr>
<tr>
<td>Science Education (M.A.)</td>
<td>333</td>
</tr>
<tr>
<td>Science Education (M.A.T.)</td>
<td>335</td>
</tr>
<tr>
<td>Science Education, Biology Concentration (M.Ed.)</td>
<td>336</td>
</tr>
<tr>
<td>Science Education, Chemistry Concentration (M.Ed.)</td>
<td>337</td>
</tr>
<tr>
<td>Science Education, Physics Concentration (M.Ed.)</td>
<td>338</td>
</tr>
<tr>
<td>Science Education Concentration (Ed.S.)*</td>
<td>339</td>
</tr>
<tr>
<td>Science Education Concentration (Ph.D.)</td>
<td>340</td>
</tr>
<tr>
<td>Second Language Acquisition and Instructional Technology (Ph.D.)</td>
<td>342</td>
</tr>
<tr>
<td>Secondary Education Concentration (Ph.D.)</td>
<td>343</td>
</tr>
<tr>
<td>Social Science Education (M.A.)</td>
<td>344</td>
</tr>
<tr>
<td>Social Science Education (M.A.T.)</td>
<td>346</td>
</tr>
<tr>
<td>Social Science Education Concentration (M.Ed.)</td>
<td>347</td>
</tr>
<tr>
<td>Special Education, Behavior Disorders (M.A.)</td>
<td>348</td>
</tr>
<tr>
<td>Special Education, Gifted (M.A.)</td>
<td>350</td>
</tr>
<tr>
<td>Program</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Special Education, Mental Retardation (M.A.)</td>
<td>352</td>
</tr>
<tr>
<td>Special Education, Motor Disabilities (M.A.)*</td>
<td>354</td>
</tr>
<tr>
<td>Special Education, Specific Learning Disabilities (M.A.)</td>
<td>355</td>
</tr>
<tr>
<td>Special Education, Varying Exceptionalities (ESE) (M.A.)</td>
<td>357</td>
</tr>
<tr>
<td>Special Education, Varying Exceptionalities (ESE) (M.A.T.)</td>
<td>359</td>
</tr>
<tr>
<td>Special Education, Behavior Disorders Concentration (M.Ed.)*</td>
<td>361</td>
</tr>
<tr>
<td>Special Education, Gifted Concentration (M.Ed.)*</td>
<td>362</td>
</tr>
<tr>
<td>Special Education, Mental Retardation Concentration (M.Ed.)*</td>
<td>363</td>
</tr>
<tr>
<td>Special Education, Motor Disabilities Concentration (M.Ed.)*</td>
<td>364</td>
</tr>
<tr>
<td>Special Education, Specific Learning Disabilities Concentration (M.Ed.)*</td>
<td>365</td>
</tr>
<tr>
<td>Special Education Concentration (Ed.S.)*</td>
<td>366</td>
</tr>
<tr>
<td>Special Education Concentration (Ph.D.)</td>
<td>367</td>
</tr>
<tr>
<td>Special Education: Administration of Special Ed Concentration (Ed.D.)*</td>
<td>368</td>
</tr>
<tr>
<td>Student Affairs Administration Concentration (Ph.D.)*</td>
<td>369</td>
</tr>
<tr>
<td>Theatre Education Concentration (M.Ed.)*</td>
<td>370</td>
</tr>
<tr>
<td>Vocational Education Concentration (Ed.S.)*</td>
<td>371</td>
</tr>
<tr>
<td>Vocational Education Concentration (Ph.D.)*</td>
<td>372</td>
</tr>
<tr>
<td>Vocational Education Concentration (Ed.D.)*</td>
<td>373</td>
</tr>
</tbody>
</table>

Section 17 College of Education at USF St. Petersburg

Elementary Education: Science and Mathematics Concentration (M.A.) 376

Section 18 College of Engineering

Biomedical Engineering (M.S.B.E.) 383
Biomedical Engineering (M.S.E.S.) 384
Biomedical Engineering (Ph.D.) 385
Chemical Engineering (M.Ch.E.) 387
Chemical Engineering (M.E.) 388
Chemical Engineering (M.S.Ch.) 389
Chemical Engineering (M.S.E.S.) 390
Chemical Engineering (Ph.D.) 391
Civil Engineering (M.C.E.) 392
Civil Engineering (M.E.) 393
Civil Engineering (M.S.C.E.) 394
Civil Engineering (M.S.E.S.) 395
Civil Engineering (Ph.D.) 396
Computer Engineering (M.C.P.) 397
Computer Engineering (M.E.) 398
Computer Engineering (M.S.C.P.) 399
Computer Engineering (M.S.E.S.) 400
Computer Science (M.S.C.S.) 401
Computer Science (M.E.) 402
Computer Science (M.C.S.) 403
Computer Science (M.S.E.S.) 404
Computer Science and Engineering (Ph.D.) 405
Electrical Engineering (M.E.)* 406
Electrical Engineering (M.E.E.) 407
Electrical Engineering (M.S.E.E.) 408
Electrical Engineering (M.S.E.S.) 409
Electrical Engineering (Ph.D.) 410
Engineering (M.S.E.) 411
Engineering Management (M.S.E.M.) 412
Engineering Management (M.S.E.S.) 413
Engineering Science (M.S.E.S.) 414
Engineering Science (Ph.D.) 415
Engineering Science/Physics (M.S.) 416
Section 1
Welcome to Graduate School!

A MESSAGE FROM THE PRESIDENT

Thank you for your interest in graduate education at the University of South Florida.

USF is a top-tier, metropolitan research university, poised to become one of the top 50 public research universities in America in five years. Distinguished by our excellent research and graduate education, we are located in a major urban region that is among the nation’s most diverse and encompasses some of the world’s most prized marine and land environments. USF programs that are recognized as being among the nation’s best include Marine Science, Psychology, Accounting, Applied Anthropology and Biochemistry.

Strong interdisciplinary programs put USF on the leading edge of research and graduate education in a number of areas. For example, collaboration of researchers throughout the institution has made USF a leader in the neuroscience of aging. USF’s interdisciplinary doctoral program in Aging Studies was the first in the country. The doctoral program in Cancer Biology, combined with the strengths of the nationally recognized H. Lee Moffitt Cancer Center and Research Institute, reinforces USF’s research capacity.

In addition to doctoral programs, USF offers many opportunities for postgraduate study through Master’s and Certificate programs, many of which are designed to prepare graduates to make immediate contributions to the economic, cultural and social vitality of communities. Our commitment to diversity, discovery and application of knowledge is an integral part of our scholarship and brings us closer to our goal to be the model for an “engaged university.”

The opportunities for graduate education at USF are vast. USF offers programs that are unsurpassed in their capacity to prepare you to make your best contribution to a challenging world. I invite you to inquire further about USF programs of interest to you.

Sincerely yours,

Judy Genshaft, Ph.D.
President
Office of the President – http://isis.fastmail.usf.edu/president/index.html

A MESSAGE FROM THE DEAN

I would like to extend my personal thanks for your interest in graduate education at the University of South Florida. Selecting a graduate school is a major decision which affects your personal and professional future. I believe that your choice of the University of South Florida will position you for success in your professional endeavors. USF is a metropolitan-based, national research university with high-quality programs, outstanding research facilities, and excellent faculty.

USF’s mission incorporates a strong desire and commitment to educate future generations of scholars, researchers, teachers, and professional leaders. As scholars and educators, the faculty of USF are generating, translating, and disseminating new knowledge every day. Faculty received almost 300 million dollars in sponsored research funding in the 2003-2004 academic year. USF offers over 100 master’s degrees, more than 35 doctoral degree programs and one medical degree. A diverse student body spanning these programs enhances and enriches the graduate educational and research experience.

The University provides many meritorious graduate students with teaching and/or research assistantships offering competitive stipends and tuition reimbursement. We support doctoral students through a number of competitive and distinguished fellowships including the USF Presidential Fellowship, the McKnight Doctoral Fellowship, and the Robert F. Pride Doctoral Research Fellowship. Funds are also available to support conference participation and research activity. The graduate student body is growing both in quality and size with almost eight thousand graduate and professional students, a fourth of whom are pursuing doctoral or medical degrees. I look forward to answering your questions and I am confident that you will find USF an exciting and rewarding place to study at the graduate level.

Kelli McCormack Brown, Ph.D.
Interim Associate Provost and Dean, Graduate School – http://www.grad.usf.edu
Section 2
USF: A Multi-Campus National Research Institution

USF Mission, Goals, Values, Vision, Accreditation

USF Strategic Plan: http://www.acad.usf.edu/strategicplan/index.html

USF Mission
The University of South Florida is a multi-campus national research university that supports the development of the metropolitan Tampa Bay Region, Florida, the United States and the world. Building upon unique strengths inherent in Florida’s population, location, and natural resources, the university is dedicated to excellence in:

- Teaching and lifelong learning in a student-centered environment
- Research to advance knowledge and promote social, cultural, economic, educational, health, and technological development
- Service based on academic excellence and the ethic of community responsibility
- Community engagement to build university-community partnerships and collaborations

Goals
The University of South Florida will continue to expand its influence as a premier research university through:

- Strengthened research, creative, and scholarly endeavors
- Improved undergraduate and graduate academic programs that promote intellectual development and student success through a diverse, student-centered environment
- Engaged service that strengthens cultural and community life, and promotes lifelong learning and economic opportunity
- Increased fiscal self-sufficiency and appropriate state support

Values
The University of South Florida values:

- Teaching, research and service based on the highest standards of discovery, creativity, and intellectual attainment
- Development of the personal and professional potential of students, faculty, and staff, and enriching the quality of campus life
- An ethic of collegiality based on integrity, civility, academic freedom, professional responsibility, and collaboration among disciplines and units
- Access to an excellent education
- University/community engagement that increases the understanding of urban issues and advances community development
- Cultural and ethnic diversity and global understanding

Vision
The University of South Florida envisions itself as a premier national research university that serves the metropolitan Tampa Bay Region, Florida, and the nation through:

- Excellent undergraduate and graduate instruction in a student-centered environment
- Creative, innovative, engaged scholarly endeavors, and the furthering of advanced knowledge
- Education that promotes freedom, unity, democracy, and understanding in the presence of our Nation’s historical diversity
- Generation and dissemination of knowledge to strengthen our society and the environment
- Greater fiscal self-reliance.

Accreditation
The University of South Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone 404-679-4500) to award degrees at the baccalaureate, master’s, specialist, and doctoral levels, including the Doctor of Medicine.
University Administration

University Board of Trustees
The USF Board of Trustees was established by the Legislature in 2001. The 13 trustees include distinguished figure in the law, commerce, medicine, education, philanthropy and public policy leadership. Six trustees are appointed by the governor and five trustees are appointed by the Board of Governors. The Faculty Senate President and Student Body President also serve as trustees. The President of the University serves as Corporate Secretary. Information about each Trustee is available online at: http://isis.fastmail.usf.edu/board/members.html

Board of Trustees:
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Susan Greenbaum  
Rhea F. Law  
Kiran C. Patel, MD  
John B. Ramil  
Debbie Nye Sembler  
Robert L. Soran

President: Judy Genshaft
Provost: Renu Khator
Interim Associate Provost and Dean: Kelli McCormack Brown

College Graduate Program Coordinators:
School of Architecture and Community Design  
Daniel Powers  
College of Arts and Sciences  
Bruce Cochrane  
College of Business Administration  
Richard Meyer  
College of Education  
Carine Feyten  
College of Engineering  
Carlos Smith  
College of Marine Science  
Ted Van Vleet  
College of Medicine  
Joseph Krzanowski  
College of Nursing  
Judith Karshmer  
College of Public Health  
Karen Liller  
College of Visual and Performing Arts  
Barton Lee  
Graduate School  
Kelli McCormack Brown

Regional Campuses
The University of South Florida has four regional campuses: Tampa, Lakeland, Sarasota, and St. Petersburg. Contact information for each campus is below.

Tampa Campus
4202 E. Fowler Avenue  
Tampa, Fl 33620  
(813) 974-2011  
Website: www.usf.edu

Lakeland Campus
3433 Winter Lake Road  
Lakeland, FL 33803  
(863) 667-7000  
Website: www.lklnd.usf.edu

Sarasota Campus
5700 N. Tamiami Trail  
Sarasota, FL 34243-2197  
(941) 359-4200  
Website: www.sar.usf.edu

St. Petersburg Campus
140 Seventh Avenue S.  
St. Petersburg, FL 33701  
(727) 553-1142  
Website: www.stpt.usf.edu
## Contact Information

<table>
<thead>
<tr>
<th>Graduate School</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td><strong>Main Line</strong></td>
<td>(813) 974-2846</td>
</tr>
<tr>
<td><strong>Admissions</strong></td>
<td>(813) 974-8800</td>
</tr>
<tr>
<td>Dr. Kelli McCormack Brown, Interim Associate Provost and Dean</td>
<td>(813) 974-2846</td>
</tr>
<tr>
<td>Theresa Singletary, Administrative Services</td>
<td>(813) 974-7359</td>
</tr>
<tr>
<td>Francisco Vera, Director of Graduate Admissions</td>
<td>(813) 974-2846</td>
</tr>
<tr>
<td>Mildred Howard, Coordinator of Accounting</td>
<td>(813) 974-8356</td>
</tr>
<tr>
<td>Jean Cole-Spencer, Accountant</td>
<td>(813) 396-9010</td>
</tr>
<tr>
<td>Carol Hines-Cobb, Coordinator, Academic Services</td>
<td>(813) 974-4239</td>
</tr>
<tr>
<td>Janet Giles, Manuscript Editor</td>
<td>(813) 974-5220</td>
</tr>
<tr>
<td>Rod Hale, Multi-cultural Graduate Programs Coordinator</td>
<td>(813) 974-3412</td>
</tr>
<tr>
<td>Joseph Butts, Senior Systems Administrator</td>
<td>(813) 974-3586</td>
</tr>
<tr>
<td>Nicholas R. Hage, Assistant Systems Administrator</td>
<td>(813) 974-3226</td>
</tr>
<tr>
<td>Gloryvee Cordero, Computer Support Analyst</td>
<td>(813) 974-7727</td>
</tr>
<tr>
<td>Terri Collins, Coordinator, Marketing &amp; Recruiting</td>
<td>(813) 974-7257</td>
</tr>
<tr>
<td>Malcolm Randolph, Marketing &amp; Recruiting</td>
<td>(813) 974-7796</td>
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<tr>
<th>Campus Contact Information</th>
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<tbody>
<tr>
<td>Campus Recreation Center</td>
<td>(813) 974-3177</td>
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<tr>
<td>Campus Residence Halls</td>
<td>(813) 974-4310</td>
</tr>
<tr>
<td>Chamber of Commerce (Greater Tampa Chamber of Commerce)</td>
<td>(813) 228-7777</td>
</tr>
<tr>
<td>Child Care Resources and Referral</td>
<td>(813) 276-5753</td>
</tr>
<tr>
<td>Disabled Student Services</td>
<td>(813) 974-4309</td>
</tr>
<tr>
<td>Health Services</td>
<td>(813) 974-2331</td>
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<tr>
<td>International Admissions</td>
<td>(813) 974-5102</td>
</tr>
<tr>
<td>International Student &amp; Scholar Services</td>
<td>(813) 974-5102</td>
</tr>
<tr>
<td>Lakeland</td>
<td>(863) 667-7000</td>
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<tr>
<td>Library Resources-Information</td>
<td>(813) 974-2729</td>
</tr>
<tr>
<td>Marshall Student Center</td>
<td>(813) 974-3180</td>
</tr>
<tr>
<td>Office of Financial Aid</td>
<td>(813) 974-4700</td>
</tr>
<tr>
<td>Office of Student Employment and Career Resource Center</td>
<td>(813) 974-2171</td>
</tr>
<tr>
<td>Pasco Initiative (Educational Outreach)</td>
<td>(813) 974-2996</td>
</tr>
<tr>
<td>Registration and Records</td>
<td>(813) 974-2000</td>
</tr>
<tr>
<td>Sarasota</td>
<td>(941) 359-4269</td>
</tr>
<tr>
<td>St. Petersburg</td>
<td>(727) 553-1142</td>
</tr>
<tr>
<td>Student Affairs</td>
<td>(813) 974-2151</td>
</tr>
<tr>
<td>Student Government</td>
<td>(813) 974-2401</td>
</tr>
<tr>
<td>Tampa</td>
<td>(813) 974-2011</td>
</tr>
<tr>
<td>Veterans Services</td>
<td>(813) 974-2291</td>
</tr>
</tbody>
</table>
### Academic Calendar

**August 2005-July 2006**

Also see the Registrar’s Calendar at [http://www.registrar.usf.edu/display_link.php?page_key2=iV0rXwaVehr47Dmr8IcWITMYNQ&link_type=Forms&link=%2Fforms%2FCalendar2003-08-06_8_55_34.pdf](http://www.registrar.usf.edu/display_link.php?page_key2=iV0rXwaVehr47Dmr8IcWITMYNQ&link_type=Forms&link=%2Fforms%2FCalendar2003-08-06_8_55_34.pdf) for term begin/end dates, registration dates, graduation application deadlines, etc. Graduate School Deadlines are available online at: [http://www.grad.usf.edu/manuscriptdealines_new.asp](http://www.grad.usf.edu/manuscriptdealines_new.asp)

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>August 29 - Monday</td>
<td>Fall, first day of classes</td>
</tr>
<tr>
<td>September 5 - Monday</td>
<td>Labor Day</td>
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<tr>
<td>October 4 - Tuesday</td>
<td>Rosh Hashanah</td>
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<tr>
<td>October 13 - Thursday</td>
<td>Yom Kippur</td>
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<tr>
<td>November 11 - Friday</td>
<td>Veteran’s Day</td>
</tr>
<tr>
<td>November 24 &amp; 25</td>
<td>Thanksgiving Holiday</td>
</tr>
<tr>
<td>December 9 - Friday</td>
<td>Fall, last day of classes</td>
</tr>
<tr>
<td>December 10 - 16</td>
<td>Final Exam Week</td>
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<tr>
<td>December 17 - Saturday</td>
<td>Fall, Tampa Commencement</td>
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<tr>
<td>December 26 - Monday</td>
<td>Christmas Holiday</td>
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<tr>
<td>2006</td>
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<tr>
<td>January 2 - Monday</td>
<td>New Year’s Holiday</td>
</tr>
<tr>
<td>January 9 - Monday</td>
<td>Spring, first day of classes</td>
</tr>
<tr>
<td>January 16 - Monday</td>
<td>Martin Luther King, Jr.</td>
</tr>
<tr>
<td>March 13 - 18</td>
<td>USF Spring Break</td>
</tr>
<tr>
<td>April 28 - Friday</td>
<td>Spring, last day of classes</td>
</tr>
<tr>
<td>April 29 - May 5</td>
<td>Spring Final Exams</td>
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<tr>
<td>May 6 - Saturday</td>
<td>Spring Commencement, Tampa</td>
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<tr>
<td>May 15 - Monday</td>
<td>Summer A &amp; C, first day of classes</td>
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<tr>
<td>May 28 - Monday</td>
<td>Memorial Day</td>
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<tr>
<td>June 23 - Friday</td>
<td>Summer A, last day of classes</td>
</tr>
<tr>
<td>July 3 - Monday</td>
<td>Summer B, first day of classes</td>
</tr>
<tr>
<td>July 4 - Tuesday</td>
<td>Independence Day Holiday</td>
</tr>
<tr>
<td>July 21 - Friday</td>
<td>Summer C, last day of classes</td>
</tr>
</tbody>
</table>
Section 3
Graduate Admissions

University of South Florida
Office of Graduate Admissions
4202 E. Fowler Ave, FAO174
Tampa, Fl 33620-7910

Website: http://admissions.grad.usf.edu/

Phone: 813-974-8800
U.S. Toll-Free: 1-866-974-8800
Fax: 813-974-7343
E-mail: admissions@grad.usf.edu

Director of Graduate Admissions: Francisco Vera
Admissions Officers:
Nancy Moenning, Deise Cedeño, Mark Freeman,
David Shocklee, Danielle Chandonnet

University Admissions Criteria and Policies
Students who seek admission to a graduate degree program as first-time or transfer graduate students shall be required to meet minimum State University System (SUS) requirements. Individual programs may also set additional or more selective requirements and applicants should know that meeting minimum admission requirements does not guarantee admission to a particular program. Also, because some programs accept only a limited number of students, or do not have the faculty or facilities to accommodate a student’s particular area of study, many applicants who exceed minimum requirements may not be accepted.

In order to be considered for admission, first-time or transferring graduate applicants must:

A. Have a bachelor’s degree or equivalent from a regionally accredited university, and

B. Have taken the Graduate Record Examination (GRE)* / Graduate Management Admission Test (GMAT) or an equivalent measure approved by the State University System (SUS) within five years preceding application, and

C. Meet at least one of the following criteria:

1. Have earned a graduate degree from a regionally accredited institution.
2. Have earned a "B" (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working for a baccalaureate degree.
3. Have a total verbal plus quantitative GRE General Test score of 1000 or higher, or GMAT score of 500, or an equivalent measure approved by the SUS, taken within five years preceding application.

International Applicants
Students who are not United States citizens or who have not already been granted Permanent Resident Alien status (hold a Green Card) must apply through the Office of International Admissions (http://web.usf.edu/iac/admissions/).
All requirements and application materials are available at this website.

Application Procedures
Applications are accepted up to one year in advance of the desired term of entry and therefore, prospective applicants are strongly encouraged to apply early. Applicants are responsible for submitting applications before the appropriate program or university application deadlines. Applications are considered “on time” if they are received by the Office of Graduate Admissions or the desired program (if that program is a Direct Receipt program) on or before the appropriate deadline. Program deadlines are listed in the

*The GRE requirement may be waived at the discretion of individual graduate programs. Please contact your program of interest directly for additional information.
Application to Graduate School at USF and on the Graduate Admissions web site at http://admissions.grad.usf.edu/.

Priority is given to those applications that are received before the application deadline and are complete when submitted. Complete applications received after the deadline date will be processed for the next available semester. The Office of Graduate Admissions considers domestic applications complete if they include:

1. the appropriate application fee
2. two official transcripts of at least 6 semesters of completed undergraduate work
3. GRE/GMAT test scores, as applicable

Applicants whose native language is not English or who have not earned a degree in the U.S. must submit a TOEFL score (refer to Test Scores).

Application Checklist
All applicants must submit the following items in addition to the completed application form:

- Application Fee
- Transcripts
- Test Scores
- Conduct Clearance Policy (Legal Disclosure Statement)
- Residency Policy
- Application Documents Access / Forward/Return Policy
- Additional Requirements of Programs (If Applicable)

Application Fee
All applicants are required to submit an application fee of $30.00 for EACH graduate program. Please attach a check or money order drawn on a US bank in US currency, made payable to USF. If you attended USF as a former degree seeking student or non-degree seeking student then you MUST SUBMIT the application fee. Any application received without the required fee will NOT be processed, and will be destroyed two months after being received. ALL APPLICATION FEES SUBMITTED ARE NON-REFUNDABLE.

Transcripts
Two (2) official transcripts from all institutions of higher learning where the applicant has earned a degree are required, but applicants may provide

unofficial copies of transcripts to expedite the processing of their applications. Any admissions granted using unofficial transcripts will not be finalized until official transcripts are received in a sealed envelope from the Office of the Registrar where they attended. All transcripts must be in English; it is the applicant’s responsibility to have transcripts translated/evaluated (if necessary) before submitting them as part of their graduate application packet. If you are applying while still completing an undergraduate degree, you 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. Do not submit USF transcripts if you have attended as a USF degree-seeking student.

Test Scores
All applicants to programs requiring the GRE* must submit GRE test scores earned within five (5) years of the desired term of entry. Applicants to programs in the College of Business (excluding Economics) should submit GMAT scores earned within five (5) years of the desired term of entry. Official scores must be submitted to USF directly from the Educational Testing Service, but applicants may provide unofficial copies of their test scores to expedite the processing of their applications. Any admission granted using unofficial scores 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.

Applicants whose native language is not English or who have not earned a degree in the United States must also submit TOEFL scores earned within two (2) years of the desired term of entry. A minimum score of 213 on the computer-based test, or 550 on the paper-based test are required. Applications submitted with TOEFL scores that do not meet the minimum requirements will be denied with no exceptions.

*The GRE requirement may be waived at the discretion of individual graduate programs. Please contact your program of interest directly for additional information.

Residency Policy
Applicants desiring classification as Florida residents for tuition paying purposes must sign and complete the Florida Residents section of the Florida Residency Classification page of the Graduate Application. Incomplete or unsigned forms will be
classified as non-Florida residents. The Office of Graduate Admissions will classify applicants as Florida residents if they have provided documentation that verifies they began living in Florida at least twelve months before the start of classes of their admitted term of entry. Additional documentation other than what is required may be requested in some cases. All documentation is subject to verification. The student is 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 the student feels that their initial classification is in error, they have until the last day of the term to contact the appropriate admissions office and request a re-evaluation.

After the student has completed their first semester of study they may seek to have their residency reconsidered. They may submit a Request for Reclassification Form with the Office of the Registrar. This must be filed by the 5th day of classes for the term being requested. The following are acceptable, non-conclusive evidence for establishing legal Florida residence:

- Proof of purchase of a permanent home in Florida
- Declaration of Domicile
- Florida Driver’s License
- Florida Voter’s Registration
- Florida Vehicle Registration
- Florida Vehicle Title
- Professional/Occupational license in Florida
- Florida incorporation or other evidence of legal residence in Florida

NOTE: Rent receipts, lease, tax returns, school/college records are NOT evidence of establishing a legal Florida residence.

Application Documents Access/Forward/Return Policy
No application, test scores, transcripts, letters of recommendations, or other documents submitted with the application packet will be returned to the applicant or forwarded to another institution/third party. The Office of Graduate Admissions applicant file is not to be released to the applicant or other third parties. Requests, subpoenas, or court orders are to be forwarded to the Office of the General Counsel after review by the Director of Graduate Admissions.

Applicants once admitted and enrolled during the term of admission may request access to their student file at the Office of the Registrar. Letters of Recommendation that the applicant has waived the right to view (indicated on Request for Recommendation Form) are not to be given, copied or viewed by the applicant or third parties. Requests for degree/enrollment verification information are referred to the Office of the Registrar.

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

Additional Requirements of Programs
(If applicable)
Many programs require additional application materials such as resumes, writing samples, or letters of recommendation. These items may be sent as part of the overall graduate application packet or directly to the appropriate department/program. These materials will be forwarded to the appropriate program if sent with the application packet but DO NOT become part of the applicant’s permanent file; therefore, the Office of Graduate Admissions does not track them.

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

Provisional Admission Criteria
Applicants accepted for admission whose official documents (transcripts and/or test scores) have not been received by the Office of Graduate Admissions are admitted provisionally pending receipt of these missing items. The required transcripts and/or test scores must be received before a third semester registration is permitted. If the missing documents are not provided by the end of the second semester of attendance, the Office of Graduate Admissions will place a registration hold on the student's file.

Exception Admission Criteria
The University may admit up to 10% of new enrollees as exceptions to the Board of Trustees
minimum requirements. To be considered for an exception, a student should present evidence that their academic preparation was such that it might account for less than the minimal University and/or program requirements, and evidence of potential for academic success such as excellent letters of recommendation from trusted academicians, performance in graduate courses taken as a post-bachelor’s student, professional experience in his/her discipline for a period of time, etc. Each request for a 10% exception must include a statement describing the special circumstances of the applicant. It is the discretion of the program and college to accept exception application requests.

Conditional Admission Criteria
A program and/or college may admit students conditionally upon satisfaction of requirements separate from University minimum requirements. These conditions may include attendance in specific core or remedial courses and/or required earned GPA of 3.0 for those courses. Failure to satisfy those conditions by the deadline established by the program will result in academic dismissal from the program.

Deferment of Admission Request
A student’s acceptance is granted for that semester and the particular program specified in the official acceptance notification. The student must validate that acceptance by enrolling for that semester. Students who fail to validate their admission may contact the Graduate Program Director and request a Deferment of Admission. This request must be made in writing within 12 months of the initial requested entry date. If a request for Deferment of Admission is not received in the specified time, a new application and fee must be submitted. Deferment requests must also be received no later than the program or University application deadline for the semester desired, whichever is earlier. Students who were admitted provisionally upon receipt of official test scores and/or transcripts must supply those missing items prior to having their deferment decision processed by the Office of Graduate Admissions. International students must also provide a new financial statement dated no earlier than 6 months before the requested date of entry.

Update of Admission Request
If admission has not been granted because of a late application or missing credentials, the student must request that the Office of Graduate Admissions update the application for a future semester and specify the new enrollment date. This request must be made in writing within 12 months of the initial requested entry date and must be received no later than the program or University application deadline for the semester desired, whichever is earlier. Applications are held for only 12 months. If a request for change in entry date is not received in the specified time, a new application and fee must be submitted. The Office of Graduate Admissions will not process any update requests without first receiving all official test scores and/or transcripts.

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 system wide standards (3.0 GPA or 1000 GRE) may write the Graduate Program Director of the program to which they applied within 30 days of the date of denial to request reconsideration. The request should present additional evidence of potential for academic success at USF and contain reasons why reconsideration is warranted. Applicants denied admission to a degree-seeking program are eligible to enroll as special (non-degree seeking) students. Non-degree seeking applications must be submitted to the Office of the Registrar.

Reinstatement of Admission Request
A graduate student who has not been in attendance for at least one semester during the past 12 months must apply for Reinstatement of Admissions by contacting the Graduate Program Director of his/her degree-seeking program. Students may obtain the form at www.grad.usf.edu (Click on Graduate School Forms.) Requests for reinstatement must be received no later than the program’s admissions deadline date. Students requesting reinstatement must submit a completed Reinstatement of Admission Request Form and Residency Form directly to the program to which reinstatement is sought. An application and an application fee are NOT required when seeking a reinstatement.

The reinstatement policy does NOT apply to inactive students wishing to enroll in a program other than the original admitting program. These students must submit an application for the new program of interest. Transcripts of any work completed while not attending USF may be required.

Change of Program Request
Change of Program Request will NOT be considered for graduate students in their first semester of study. Only a continuing graduate student enrolled for study
in a particular program who wishes to change to another program at the same or lower level must complete the Change of Program Request Form #USF 2085. It is up to the discretion of the student’s original program to determine if a Change of Program is appropriate and will be granted.

Students may obtain the form at www.grad.usf.edu (Click on Graduate School Forms.) This form must be signed both by the current program and the new program, after which it must be submitted to the Graduate School for approval. If approved by the Graduate School, the change of program form is then sent to the Registrar for processing.

NOTE: Some programs may require another application to be submitted because the Change of Program Request Form does not contain sufficient information for them to make a decision. You should check with the new program before completing any paperwork. Also see other sections pertaining to Change of Program.

Students with Disabilities Policy

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

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

Office of the Registrar
Phone: 813-974-2000
TTY: 813-974-4488
E-mail: regquest@admin.usf.edu
Website: http://www.rmit.usf.edu/enroll/regist/regist.htm

The Office of the Registrar maintains the official academic records for all students and course registrations for currently enrolled students. Students are encouraged to contact the Office of the Registrar 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.

Registration Information
To register for classes, students must login to OASIS – http://usfonline.admin.usf.edu/. Per Florida Statutes, students must submit a Medical History Form required for all students, regardless of age and degree seeking status, available at the website: http://shsweb.shs.usf.edu/. Questions may be directed to Student Health Services by phone at 813-974-4056. Additional information on all registration requirements and procedures may be found in the Schedule of Classes at http://usfweb.usf.edu/ssearch/search.htm or at the Registrar’s office website at: http://www.registrar.usf.edu/index.php

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).

Medical Requirements for Registration
Student Health Services is charged with the responsibility of evaluating and maintaining medical requirements for registration for all University of South Florida students.

According to Florida Administrative Code Rule 6C-6.001(4) "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)

New admits will be provided a Medical History / Immunization Form with their admissions letter. Upon request, Student Health Services will mail or fax a Medical History/Immunization Form to you, or you may download a form from the Student Health Services Forms page and print it on a laser or inkjet printer. In order to register, this form must be completed, signed, and returned to:

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

Administrative Holds
A student may be placed on administrative hold by failure to meet obligations to the University. When a student is 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 Office of the Registrar which office placed him/her in this status and clear the obligation with that respective office.

Equal Opportunity Policy
The University of South Florida is committed to the principles of Equal Educational and Employment Opportunities without regard to race, color, marital
status, sex, religion, national origin, disability or age, as provided by law and in accordance with the University’s respect for personal dignity. 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 Office of Equal Opportunity Affairs, ADM 281, or by calling 974-4373 or 813-974-1510 (TDD). 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. EOA Site: http://www.usf.web.usf.edu/eqao.

### 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.

#### 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 Master’s Degree Program
- 6A - Graduate student admitted to Specialist Degree Program
- 6D - Graduate student admitted to a Doctoral Degree Program (not eligible to register for dissertation hours)
- 6C - Graduate student admitted to Doctoral Candidacy (eligible to register for dissertation hours)
- 7A-7D - 1st-4th year professional program (M.D.) or post-doctoral status

### Student Definitions

**Degree Seeking Student**
Students who have been accepted into a degree program

**Graduate Certificate Seeking Student**
Students who have been accepted into a Graduate Certificate program. Students who are non-degree seeking, but who are admitted to a Graduate Certificate may register during the same registration period as Degree-Seeking Students. Up to 12 hours of the coursework taken as a Graduate Certificate Seeking Student may be applied to a degree program. For more information about Graduate Certificates and specific requirements, go to http://www.outreach.usf.edu/gradcerts/.

**Non-Degree Seeking Student**
Students who have not been accepted into a degree or Graduate Certificate Program. 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 program, no more than 12 hours of USF credit earned as a Non-Degree Seeking student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the degree-granting college and must be appropriate to the program. Prior to completing 12 hours in a specific degree program it is strongly recommended that a Non-Degree Seeking Student apply for admission and be accepted to the degree program to continue taking courses in the program. Programs may have additional requirements, so check with the program of interest for more information.

**Transient Student**
The SUS Transient Student program enables a graduate student to take advantage of resources available on other SUS campuses. A Transient Student, by mutual agreement of the appropriate academic authorities in both the sponsoring and hosting institutions, receives a waiver of admission requirements and application fee at the host institution and a guarantee of acceptance of earned credits by the sponsoring institution. A graduate
advisor, who will initiate a visiting arrangement with the appropriate faculty of the host institution, must recommend a Transient Student. USF degree-seeking students who wish to enroll at another regionally accredited institution MUST HAVE PRIOR WRITTEN APPROVAL from their college academic advisor to receive credit for courses taken. For more information, contact the Registrar’s Office at 974-2000 or on the web at http://www.usf.edu

Student Records Policy
Pursuant to the provisions of the Family Educational Rights and Privacy Act (“FERPA”; 20 USC Par. 1232g), 34 CFR Par. 99.1 et seq, Florida Statutes Sub. Par. 228.093 and 240.237 and USF Rule 6C4-2.0021, Florida Administrative Code, students have the right to:
1. Inspect and review their education records;
2. Privacy in their education records;
3. Challenge the accuracy of their education records; and
4. Report violations of FERPA to the FERPA Office, Department of Education, 400 Madison Avenue, SW, Washington, D.C. 20202 and/or bring actions in Florida Circuit Court for violations of Rule 6C4-2.001, Florida Administrative Code.

Copies of the University’s student records policy, USF Rule 6C4-2.0021, may be obtained from the Office of the Registrar or the 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):

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 Graduate School and the Provost. In cases where a member of the immediate family of a faculty member is enrolled in a graduate degree program, the faculty member may not serve on any advisory or examination committee or be involved in any determination of academic or financial status of that individual.

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

Course Attendance at First Class Meeting – Policy for Graduate Students
For structured courses, 6000 and above, the College/Campus Dean will set the first-day course attendance requirement. Check with the College for specific information. This policy is not applicable to courses in the following categories: Educational Outreach, Open University (TV), FEEDS Program, Community Experiential Learning (CEL), Cooperative Education Training, and courses that do not have regularly scheduled meeting days/times
(such as, directed reading, or study, individual research, thesis, dissertation, internship, practicum’s, etc.). Students are responsible for dropping undesired courses in these categories by the 5th day of classes to avoid fee liability and academic penalty.

Course Descriptions
For a listing of the most current, approved course descriptions refer to the Search-a-Bull Database available online at http://www.ugs.usf.edu/sab/sabs.cfm or in the course description listing in the Graduate Catalog.

Adds
After a student has completed his/her registration on the date assigned, he/she may add courses until the add deadline specified in the Academic Calendar.

Drops
A student may drop a course(s) during the regular registration and drop/add periods (first five days of classes). No entry of the course(s) will appear on any permanent academic records and full refund of fees is due for course(s) dropped within those periods. A student may also drop a course(s) between the second and ninth week of the semester (except for summer sessions - see the Summer Schedule of Classes for dates). Registration fees and tuition must be paid for the course(s) and the academic record will reflect a “W” grade for the dropped course(s). Courses dropped after the ninth week deadline will result in an automatic “F” grade.

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. IN-STATE fees are assessed for all audit courses. Procedure and forms for requesting to audit are available on the Registrar’s website.

Cancellation of Registration Before First Class Meeting
Students may cancel their registration by notifying the Office of the Registrar 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 Office of Purchasing and Financial Services.

Withdrawal
A student may withdraw from the University without academic penalty during the first nine weeks of any term (except for Summer Sessions). He/she must submit a completed Withdrawal Form to the Office of the Registrar. No entry is made on the academic record for withdrawals submitted during the first week of the term. All subsequent withdrawals (through the ninth week of classes in the fall and spring semesters; see the Academic Calendar for summer deadlines) are posted to the academic record with “W” grades assigned to the courses.

Withdrawal deadlines for the summer sessions are listed in the Academic Calendar and are published in the Schedule of Classes for the Summer Term. Students who withdraw may not continue to attend classes. Students who withdraw during the drop/add period as stated in the Academic Calendar may receive a full refund of fees and tuition. All refunds must be requested in writing from the Office of Purchasing and Financial Services. No refund is allowed after this period except for specified reasons.
Section 5
Tuition, Fees, and Financial Information

Tuition
For tuition information refer to the link: http://www.usf.edu/pfs/tuition_cost.htm. All 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.

Veteran Deferment Benefits
Students receiving VA benefits who apply in writing no later than the specified date for the 60-day deferment of fees from the Office of Veteran’s Services have until a date listed in http://www.ugs.usf.edu/catalogs/0304/acacal.htm to pay registration fees in full.

Financial Aid
Financial assistance is available through the Office of Financial Aid. Students requiring such assistance should contact http://www.usf.edu/finaid for information. Students eligible for tuition waivers (through assistantships, or employee benefits, etc.) should contact the department and/or college providing the waiver for information.
Section 6
Academic Policies

Student Responsibilities
The University, the Colleges, and the degree programs 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 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 and departments may have additional requirements. Check with your College Graduate Coordinator or your Department Program Director for more information.

Courses, programs, 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 Search-A-Bull database online at http://www.ugs.usf.edu/sab/sabs.cfm.

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. These are described in detail in the Student Handbook: http://www.sa.usf.edu/handbook/02/

Academic Dishonesty and Disruption of Academic Process
Students attending USF are awarded degrees in recognition of successful completion of coursework in their chosen fields of study. Each individual is expected to earn his/her degree on the basis of personal effort. Consequently, any form of cheating on examinations or plagiarism on assigned papers constitutes unacceptable deceit and dishonesty. Disruption of the classroom or teaching environment is also unacceptable. This cannot be tolerated in the University community and will be punishable, according to the seriousness of the offense, in conformity with this rule.

Plagiarism
Plagiarism is defined as "literary theft" and consists of the unattributed quotation of the exact words of a published text, or the unattributed borrowing of original ideas by paraphrase from a published text. On written papers for which the student employs information gathered from books, articles, web sites, or oral sources, each direct quotation, as well as ideas and facts that are not generally known to the public at large, or the form, structure, or style of a secondary source must be attributed to its author by means of the appropriate citation procedure. Only widely known facts and first-hand thoughts and observations original to the student do not require citations. Citations may be made in footnotes or within the body of the text. Plagiarism also consists of passing off as one's own segments or the total of another person's work.

Examples of proper citation (footnote format) are as follows [Footnoting/citation styles will depend upon those used by different academic disciplines. Many disciplines in the Natural Science areas, for example, will cite the sources within the body of the text.]

As Harry Shaw states in his Concise Dictionary of Literary Terms, "Plagiarism, from a Latin word meaning 'kidnapping,' ranges from inept paraphrasing to outright theft." \[Direct quotation with an introductory statement citing the source.\] \((McGraw-Hill, 1972), pp. 209-210.\]

Plagiarism is literary theft. To emphasize that point, Harry Shaw states that the root of the word comes from the Latin word meaning "kidnapping." \[Paraphrasing\] \((Concise Dictionary of Literary Terms (McGraw-Hill, 1972), pp. 209-210.\)

In defining plagiarism, "Strategies for Teaching with Online Tools" suggests that visibility makes intellectual theft less probable. \[Paraphrasing a Web site\] \(http://bedfordstmartins.com/technotes/hccworks hop/plagiarism.htm\)

Examples of proper citation (in body of text):

Shaw (1972) states that the root of the word comes from the Latin word meaning "kidnapping." \[Paraphrasing; complete information about source will be cited in a section at the close of the text.\]

Shaw (1972) was correct when he stated that "plagiarism, from a Latin word meaning 'kidnapping,' ranges from inept paraphrasing to outright theft." \[Quotation; complete information about source will be cited in a section at the close of the text.\]

Plagiarism.org suggests that a searchable database of papers might assuage what Shaw called a "kidnapping" of intellectual content. \[Paraphrasing of a Web site; the complete information on the Web site will appear in the works cited section.\]

The following are examples of plagiarism because sources are not cited and appropriate quotation marks are not used:

Plagiarism, from a Latin word meaning "kidnapping," ranges from inept paraphrasing to outright theft.

Plagiarism comes from a Latin word meaning "kidnapping" and ranges from paraphrasing to theft.

Plagiarism ranges from inept paraphrasing to outright theft.

Visibility online makes plagiarism much more difficult for the would-be thief.

**Punishment Guidelines**

The student who submitted the subject paper, lab report, etc., shall receive an "F" with a numerical value of zero on the item submitted, and the "F" shall be used to determine the final course grade. It is the option of the instructor to fail the student in the course.

**Cheating**

Cheating is defined as follows:

1. The unauthorized granting or receiving of aid during the prescribed period of a course-graded exercise: students may not consult written materials such as notes or books, may not look at the paper of another student, nor consult orally with any other student taking the same test.

2. Asking another person to take an examination in his/her place.

3. Taking an examination for or in place of another student.

4. Stealing visual concepts, such as drawings, sketches, diagrams, musical programs and scores, graphs, maps, etc., and presenting them as one's own.

5. Stealing, borrowing, buying, or disseminating tests, answer keys or other examination material except as officially authorized, research papers, creative papers, speeches, etc.

6. Stealing or copying of computer programs and presenting them as one's own. Such stealing includes the use of another student's program, as obtained from the magnetic media or interactive terminals or from cards, printout paper, etc.
Punishment Guidelines for Academic Dishonesty

Punishments for academic dishonesty will depend on the seriousness of the offense and may include receipt of an "F" or "Zero" on the subject paper, lab report, etc., an "F" in the course; suspension or expulsion from the University. The University drop and forgiveness policies shall be revoked for a student accused of academic dishonesty. The internal transcript of a student who is awarded an "F" for academic dishonesty will read "FF." Notice that a student has been dismissed for reasons of academic dishonesty may be reflected on the student's transcript.

1. For observation of or exchanging test information with other students during the course of a classroom test, the students who receive or give such information may receive an "F" with a numerical value of zero on the test, and the "F" shall be used to determine the final course grade. It is the option of the instructor to fail the student in the course.

2. For the use of any prohibited device, such as a cheat sheet, recording, calculator if forbidden on exam, etc., during the course of a classroom test to assist the student or other students, the student using such prohibited device may receive an "F" in the course.

3. For the use of another student, a stand-in, to take an examination for the enrolled student, it is suggested that the enrolled student receive an "F" in the course and be suspended from school for one year and that the stand-in, if a University student, be suspended from school for one year.

4. For stealing, borrowing, or buying of research papers, creative works, speeches or tests and other exam materials, or the dissemination of such materials, or the manipulation of recorded grades in a grade book or other class records, the student, if enrolled in the course, may receive an "F" in the course and may be expelled from the University.

5. It is suggested that students who receive or give stolen computer programs receive an "F" with a numerical value of zero on the program or programs, and the "F" be used to determine the final course grade. It is the option of the instructor to fail the student in the course.

Disruption of Academic Process

Disruption of academic process is defined as the act or words of a student in a classroom or teaching environment which in the reasonable estimation of a faculty member:

a. directs attention from the academic matters at hand, such as noisy distractions; persistent, disrespectful or abusive interruptions of lecture, exam or academic discussions, or

b. presents a danger to the health, safety or well being of the faculty member or students.

Punishment Guidelines for Disruption of Academic Process

Punishments for disruption of academic process will depend on the seriousness of the disruption and will range from a private verbal reprimand to dismissal from class with a final grade of "W," if the student is passing the course, shown on the student record. If the student is not passing, a grade of "F" will be shown on the student record.

Procedures for Handling Student Violations Involving Alleged Academic Dishonesty and Disruption of Academic Process

Alleged violations of academic dishonesty or alleged disruptions of academic process will be handled initially by the instructor, who will discuss the incident with the student. It must be noted that the Faculty Senate considers the traditional relationship between student and faculty member as the primary means of settling disputes that may arise. If the instructor observes the alleged dishonesty occurring during an examination, he/she should, with discretion, notify the student of the fact before the student leaves the examination. In all cases, the instructor must attempt to schedule a meeting with the student to discuss the alleged dishonesty or disruptions.

After the discussion, if the student and instructor have reached a mutual agreement as to the solution, the instructor shall file a statement with the chairperson of the department or equivalent, e.g. campus dean, responsible for the course outlining the facts of the incident and the agreed-upon solution.
signed by both the instructor and student. A copy of this statement shall be given to the student. If no solution is reached, the matter should be referred to the chairperson of the department or the equivalent, e.g. campus dean, for attempt at resolution. If no resolution is reached, the matter should be referred to the dean of the college for attempt at resolution. If no solution is reached, the dean shall appoint a student/faculty committee consisting of an equal number of students and faculty to hear the two sides of the incident and to advise the dean regarding the disposition of the case.

**Academic Committee Pre-Hearing Procedure**

Within a reasonable time following the failure of the student/instructor/dean meetings to bring about a solution, and in no event later than three (3) months after such failure, the dean shall cause formal charges to be filed with the appointed academic committee. The charged student shall be provided a written notice of charges, in sufficient detail to prepare for the hearing, no less than three (3) days before the hearing, except in cases of emergency as specified below.

**Hearings**

**Emergency Hearings.** An expedited emergency hearing may be held before an academic administrator appointed by the dean or by the appointed academic committee in cases that involve the safety, health or welfare of any student or staff member.

**Non-Emergency Hearings.** Non-emergency hearings are held before the Academic Committee.

**General Principles for Non-Emergency Hearings**

**Burden of Proof.** The burden of proof shall be on the Complainant. The standard of proof for decision shall be "substantial evidence," that is, whether it is reasonable to conclude from the evidence submitted that the student did commit the violations for which he/she has been charged and shall not be the strict criminal law standard of proof beyond a reasonable doubt.

**Record.** The proceedings of all hearings shall be recorded.

**Inspection of Evidence.** The student may inspect the evidence that will be presented against him/her.

**Present Evidence.** The student may present evidence on his/her own behalf.

**Question Witnesses.** The student may hear and question adverse witnesses.

**Self-Incrimination.** The student shall not be forced to present testimony that would be self-incriminating.

**Advisor.** The student may have an advisor of his/her choice present; however, the role of such a person is as an advisor to the student only. The advisor may speak to and consult with the student but may not serve as the student's advocate, question witnesses or otherwise participate in the proceedings.

**Decision Based on Evidence.** The decision of the academic committee or appointed academic administrator shall be based solely on the evidence presented at the hearing.

**Decision in Writing.** The decision of the academic committee or appointed academic administrator, including findings of fact and a determination of penalty or sanction if any, shall be presented to the student in writing within a reasonable period of time following the hearing.

**Enrollment Status.** The student's enrollment status will remain unchanged pending final resolution, except in cases of emergency, as described above. If the student has filed a formal appeal of the instructor's action at the time that final grades are assigned, the instructor must assign a grade of "I" until the appeal process has concluded. Upon conclusion of the appeal process, the instructor should submit a Change of Grade form to the department chair for the assignment of the appropriate final grade.

**Closed Hearings.** All hearings shall be closed unless specifically requested otherwise in writing by the charged student prior to the hearing.

**Failure to Appear.** If a student against whom charges have been made fails to appear, the academic committee or academic administrator may proceed in his/her absence.

**Hearing on Appeal.** The charged student may appeal the decision of the academic committee or appointed academic administrator within thirty (30) working days of decision to the Dean of Undergraduate Studies or the Dean of the Graduate School, whichever is appropriate. The record of the initial hearing may be considered on appeal and the student is entitled to access the record when appealing. The
decision of the Dean of Undergraduate Studies or the Dean of the Graduate School is final.

**Standards and Discipline**

Any action or the aiding, abetting, or inciting of any action which is in violation of the University’s Student Conduct Code and/or University Policy constitutes an offense for which students may be subject up to and including dismissal. Students are responsible for compliance with all public laws as well as University Rules and Regulations. Students should also familiarize themselves with the University’s Administrative Policies as defined in the Student Handbook: [http://www.sa.usf.edu/handbook/02/](http://www.sa.usf.edu/handbook/02/).

These include: the Equal Opportunity Policy; the Policy on Sexual Harassment; the policy on Sexual Assault and Battery; the Alcohol Beverage Policy; the Policy on the Illegal Use of Controlled Substances and Alcohol; and the Policy on Hazing. Any act that will constitute a violation of public laws at the University will establish cause for additional legal action.

**Due Process Rights**

University disciplinary procedures afford students all rights of due process required for disciplinary matters. These include: being informed in writing of the formal charges; being given three working days to respond to the charges; having the choice of asking for an informal hearing; being provided a copy of the hearing procedures; being permitted to present evidence; and being given the opportunity to cross-examine any witness.

**University Academic Grievance Procedures**

To assure students the right to redress of academic grievances, any student may file a question or complaint in the Graduate School.

May 7, 2004; Revised and approved by UGC on Oct. 11, 2004; Revised and approved by GC in Nov. 2004. Approved by Faculty Senate on November 17, 2004.

**II. Terms and Guidelines**

An “academic grievance” is a claim that a specific academic decision or action that affects that student’s academic record or status has violated published policies and procedures, or has been applied to the grievant in a manner different from that used for other students. Grievances may relate to such decisions as the assignment of a grade seen by the student as incorrect or the dismissal or failure of a student for his or her action(s). Academic grievances will not deal with general student complaints.

“Instructor” shall mean any classroom instructor, thesis/dissertation/directed study supervisor, committee member or chair, or counselor/advisor who interacts with the student in an academic environment.
“Department Chair/Director” shall mean the academic head of a college department or the director of a program—or in all cases a “Department’s designee” appointed to handle academic grievances.

“Dean” shall mean a College Dean, the Dean of Undergraduate Studies, or the Dean of the Graduate School, as indicated—or in all cases a “Dean’s designee” appointed to handle academic grievances for the unit.

“Time” shall mean “academic time,” that is, periods when university classes are in session. The person vested with authority at the appropriate level may extend any of the time periods contained herein for good cause. Any extensions must be communicated in writing to all parties. For the purposes of this policy, each step shall be afforded three (3) weeks as a standard time limit. When a department considers a grievance according to published departmental procedures approved by the College Dean and Provost, the time line specified in this academic unit’s procedures will govern the process and no additional notice of time extension is needed.

“Written communication” shall mean communication by hard copy to the recipient’s address of record.

The “burden of proof” shall be upon the student such that the student challenging the decision, action or grade assigned has the burden of supplying evidence that proves that the instructor’s decision was incorrect. In considering grievances, decisions will be based on the preponderance of the evidence.

Neither party shall be entitled to bring “legal representation” to any actual grievance proceeding as this is an internal review of an academic decision.

As some Colleges may not have departments or some campuses may use different titles, the next level that applies to that College shall be substituted. If the incident giving rise to a grievance occurs on the St. Petersburg campus, the approved policy on that campus shall govern.

III. Resolution at the Department Level

A. The student shall first make a reasonable effort to resolve his or her grievance with the instructor concerned, with the date of the incident triggering the start of the process (i.e., the issuance of a grade; the receipt of an assignment), and the instructor shall accommodate a reasonable request to discuss and attempt to resolve this issue.

B. If the situation cannot be resolved or the instructor is not available, the student shall file a notification letter within three weeks of the triggering incident to the department Chairperson/Director. This shall be a concise written statement of particulars and must include information pertaining to how, in the student’s opinion, University policies or procedures were violated. The department Chairperson/Director shall provide a copy of this statement to the instructor.

C. The department Chairperson/Director shall discuss the statement jointly or individually with the student and the instructor to see if the grievance can be resolved. If the department maintains its own grievance procedure, it should be applied at this point. If the grievance can be resolved, the Chairperson/Director shall provide a statement to that effect to the student and the instructor with a copy to the College Dean.

D. If the grievance cannot be resolved, the department Chair/Director shall notify both the student and the instructor, informing the student of his/her right to file a written request within three weeks to advance the grievance to the College Level. The instructor may file a written response to the grievance petition. Upon receipt of the student’s request to move the process to the College Level and the instructor’s response (if provided), the Chairperson/Director shall immediately notify the College Dean of the grievance, providing copies of the student’s initiating grievance

1 Departments may develop their own formal procedures for considering grievances. Such procedures must be considered and approved by the College Dean and the Provost, and published on the Department’s web site. When such procedures exist, the Department’s examination of the grievance will unfold as specified in the procedures. If the Departmental process upholds the student’s grievance, the Department Chair will work with the College, the student and the instructor to remedy the situation. If the Department does not uphold the grievance, the Chair will report the fact to the Dean. The student may, in such cases, request the College Level review as outlined in these university procedures.
statement, any instructor’s written response to the grievance, and the written request from the student to have the process advanced to the College Level. Should the student not file a written request to move the grievance to the College Level within the prescribed time, the grievance will end.

If the grievance concerns the Chairperson/Director or other officials of the department, the student has a right to bypass the departmental process and proceed directly to the College Level.

IV. Resolution at the College Level

A. Upon receipt of the grievance, the College Dean shall either determine that the matter is not an academic grievance and dismiss it or within three weeks shall establish an Academic Grievance Committee. The membership of the Committee shall be constituted as follows:

1. Three (3) faculty members and two (2) students (undergraduate or graduate as appropriate to the case) shall be selected from the college by the Dean.

2. Wherever practical, the Committee shall include neither members of the faculty nor students of the department directly involved with the grievance, nor faculty nor students of the student’s major department. However, if requested by the department, committee, or participants, faculty or students from the department involved with the grievance or from the student’s major department may provide expert or other relevant testimony in the proceedings.

A. The Committee will operate in the following manner:

1. The Committee Chairperson will be appointed by the College Dean from among the three faculty members appointed to the Committee.

2. The Committee Chairperson shall be responsible for scheduling meetings, overseeing the deliberations of the committee and ensuring that full and fair consideration is provided to all parties.

The Committee Chairperson shall vote on committee decisions only when required to break a tie.

3. All deliberations shall be in private and held confidential by all members of the Committee and those involved in the proceedings. The recommendation of the Committee shall be based on the factual evidence presented to it.

4. Within three weeks of the Committee appointment, the Committee Chairperson shall deliver in writing to the student, instructor, department Chairperson/Director or Program Director, and College Dean a report of the findings and a recommended resolution.

5. Within three weeks of receipt of the Committee recommendation, the College Dean shall provide a decision in writing to all parties.

6. The student or the instructor may appeal the decision of the College Dean to the University Level only if the decision of the College Dean is contrary to the recommendation of the Committee or if there is a procedural violation of these Student Academic Grievance Procedures. Such an appeal must be made in writing to the Dean of Undergraduate Studies or the Dean of the Graduate School (as appropriate) within three weeks of receipt of the decision from the College Dean. Otherwise, the College Dean’s decision is final and not subject to further appeal within the University.

V. Resolution at the University Level

The Provost/Vice President for Academic Affairs or the Vice President for the Health Sciences Center has delegated authority to the Dean of Undergraduate Studies to act in place of the Provost/Vice President in all academic grievance appeals involving undergraduate students unless the grievance occurred in a program within Undergraduate Studies, wherein
it will go back to the Provost to redelegate. The Dean of the Graduate School will act in place of the Provost/Vice President in all academic grievance appeals involving graduate students.

A. The student or the instructor may appeal at the University Level within three weeks of the receipt of a decision made at the College Level, when the decision by a College Dean is contrary to the recommendation of a college Grievance Committee, or there is cause to think a procedural violation of these University Academic Grievance Procedures has been made. Within three weeks of receipt of the appeal to the decision, the Undergraduate/Graduate Dean in consultation with the Faculty Senate and the Student Senate, shall appoint an Appeals Committee consisting of three faculty members drawn from the university Undergraduate Council or Graduate Council (as appropriate), and two students, undergraduate or graduate (as appropriate).

B. The structure, functions and operating procedures of the Appeals Committee will be the same as those of the College Committee (i.e., chaired by one of the appointed faculty members appointed by the Undergraduate/Graduate Dean who will not vote except in the case of a tie, having no representation from either party’s respective departments, developing a recommendation to the Undergraduate/Graduate Dean, etc.).

C. Within three weeks of the appointment, the Committee Chairperson shall deliver in writing to the Undergraduate/Graduate Dean a report of the findings of the Committee and a recommended resolution.

D. Within three weeks of receipt of the Committee recommendation, the Undergraduate/Graduate Dean shall provide a decision in writing to all parties.

E. If the Undergraduate/Graduate Dean’s decision is that a grade change is merited, the Undergraduate/Graduate Dean shall initiate the grade change on the authority of the Provost and so inform all parties. In all academic grievance appeals, the Undergraduate/Graduate Dean’s decision is final and not subject to further appeal within the University.

These procedures shall take effect commencing Fall Semester, 2005, and shall supersede all other academic grievance procedures currently in effect, with the exception of the procedures of the College of Medicine.

Appeals

Degree-seeking graduate students may appeal actions regarding their academic status or academic performance. Reports of actions and appeals will be maintained in the student’s permanent file. For all appeals, the student must appeal in writing first to the department through the Major Professor or Graduate Program Director, then to the College Dean or representative, and then to the Dean of the Graduate School, if necessary.

Graduate Catalog

The USF Graduate Catalog, including college and program requirements, and program 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. University policies are subject to change and apply to all students regardless of Catalog choice.

Student’s Choice of Catalog

In order to graduate, students must meet all graduation requirements specified in the USF Catalog of their choice, as well as any additional requirements of the Program, College and University. Students who are continuously enrolled may select any one Catalog published during their continuous enrollment (refer to the policy on Continuous Enrollment for more information.) Students cannot choose a USF Catalog published prior to admission (or readmission if reinstated) or during an academic year in which they did not complete at least two terms.

The University does not commit itself to offer all the courses, programs, and majors listed in this Catalog unless there is sufficient demand. Some programs or courses may be suspended or restricted because of an insufficient number of faculty or lack of facilities. If the student cannot meet all of the graduation requirements specified in the Catalog of choice as a result of decisions and changes made by the University, appropriate substitutions will be determined by the program to ensure that the student is not penalized.
Enrollment Requirements

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

Minimum University Regulations

USF Full-Time Student Definition
Students taking nine (9) or more hours toward their degree in the fall or spring semester, or taking five (5) or more hours in the summer semester, will be classified as Full-Time students for academic purposes. For financial aid requirements, contact the Office of Financial Aid.

Continuous Enrollment for All Graduate Students
All graduate degree-seeking students must be continuously enrolled. Continuous enrollment is defined as completing, with grades assigned, a minimum of 6 hours of graduate credit every three continuous semesters (i.e. two (2) hours Spring/ two (2) Summer/ two (2) Fall; OR, three (3) Fall/ zero (0) spring/ three (3) Summer; OR six (6) Fall/ zero (0) Spring/ zero (0) Summer; etc.). Colleges and programs may have additional requirements. Students on an approved leave of absence are not subject to the enrollment requirement for the time approved for the leave. See also the Time Limitations Policy on the Graduate School website.

Reinstatement Following Non-enrollment
Degree-seeking graduate students who have not been continuously enrolled are automatically dropped from the system and changed to a non-degree seeking status. These students must apply for reinstatement of admission and may be subject to the admission criteria in effect at the time of reinstatement. Procedures for reinstatement are available on the Graduate Admissions Website at: http://www.admissions.grad.usf.edu

Students, who were doctoral candidates at the time they were dropped from the system, and are approved for reinstatement, shall have the original date of candidacy, with the time limit for degree completion calculated from that original date. Students reinstated to the program may be subject to the catalog criteria, including program degree requirements, in effect at the time of reinstatement. Reinstated students must enroll in the requested term of re-entry. Students may be required to complete the minimum hours for continuous enrollment that were not previously met.

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 Graduate School. Dissertation hours may apply to the Continuous Enrollment Requirement. Colleges and programs may have additional requirements.

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 Graduate School, 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.

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 Graduate School.

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 with an approved LOA must be enrolled in the first semester after the leave expires. To request an LOA, the student must complete the form available from the Graduate School website. The LOA must be approved by the Major Professor, the Program, the College, and the Graduate School, 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 Graduate School for procedures. Doctoral candidates returning from a LOA must also have their candidacy status reactivated.

**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 or B in all courses taken as a graduate student, and
- Maintain an overall minimum grade point average (GPA) of 3.00 or B in all courses taken in each of the student’s degree-seeking programs.

No grade of C- or below will be accepted toward a graduate degree.

**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, Q 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 degree program 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 Transfer of Credit section).

**Graduate Grading System**

1. **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 in the office of the Provost.

<table>
<thead>
<tr>
<th>Letter grade</th>
<th>number of grade points</th>
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<tbody>
<tr>
<td>A+</td>
<td>4.00</td>
</tr>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
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<td>B-</td>
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<td>C+</td>
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<td>C-</td>
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<td>D+</td>
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<td>D</td>
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<tr>
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<td>Failure due to academic dishonesty</td>
</tr>
<tr>
<td>I</td>
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</tr>
<tr>
<td>IF</td>
<td>Incomplete grade changed to F, 0.00 grade points</td>
</tr>
<tr>
<td>IU</td>
<td>Incomplete grade changed to U, grade points not applicable</td>
</tr>
<tr>
<td>M</td>
<td>Missing grade/no grade reported by instructor, grade points not applicable</td>
</tr>
<tr>
<td>MF</td>
<td>Missing grade changed to F, 0.00 grade points</td>
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<tr>
<td>MU</td>
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</tr>
<tr>
<td>N</td>
<td>Audit, grade points not applicable</td>
</tr>
<tr>
<td>S/U</td>
<td>Satisfactory/Unsatisfactory, grade points not applicable</td>
</tr>
</tbody>
</table>
W. Withdrawal or drop from course without penalty, grade points not applicable

Z. Continuing registration in multi-semester internship or Thesis/Dissertation courses, grade points not applicable

2. 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 a 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 6 hours of such credit (excluding those courses for which S/U is designated in the Catalog) toward a master’s degree. Directed Research, Thesis, and Dissertation courses are designated as variable credit (undergraduate rules apply to all non-degree-seeking students). An S grade indicates satisfactory coursework and may be awarded to graduate and undergraduate students (undergraduate rules apply to all non-degree-seeking students). An U grade may be awarded, at the discretion of the instructor, only when a small portion of the student’s work is incomplete and only when the student is otherwise earning a passing grade. An I grade not cleared within the next two successive academic semesters (including summer semester) will be converted to IF or IU, whichever is appropriate. I grades are not computed in the GPA. IF grades are calculated in the GPA and, if applicable, the student will be placed on academic probation or academically dismissed. Students must not re-register for courses in order to complete an I grade. An audit of the course should not be required to complete the I grade. A written contract for incomplete grades must include a description of the work to be completed, the date by which the work is to be submitted, and the signature approval of the course instructor and student, with a copy filed in the department. Students cannot be admitted to doctoral candidacy or certified for graduation with an I grade.

4. Missing (M)
The University policy is to issue an M grade automatically when the instructor does not submit any grade for a graduate student (undergraduate rules apply to undergraduate and non-degree-seeking students). Until it is removed, the M is not computed in the GPA. An M grade which is not cleared within the next academic semester (including summer semester) will be converted to MF or MU, whichever is appropriate. MF grades are calculated in the GPA and if applicable, the student will be placed on academic probation or academically dismissed. 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 chair. Students cannot be admitted to doctoral candidacy or certified for graduation with an M grade.

5. 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 Graduate School 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 Graduate School.

Probation
Any student who is not in good standing at the end of a semester shall be considered on probation as of the following semester. The college or program may also place students on probation for other reasons as designated by the college or program. Notification of probation shall be made to the student in writing by the 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 degree program.

Students with a GPA below 3.0 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
Graduate School 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.

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, an entire semester, or from the degree program itself) can be obtained from the Registrar’s Office. Appropriate alternative calendar dates may apply. Students who withdraw may not continue to attend classes.

Transfer of Credit
Transfer of graduate credit from a regionally-accredited school is generally limited to nine (9) semester hours. All transfer credit must have grades of B or better and be approved by the program or college concerned. Grades from transfer credit are not calculated in the GPA. Therefore, grades on the transcript that are preceded by a T are subtracted from the total hours attempted before the GPA is calculated. Post-baccalaureate transfer credits from other institutions and special student credits must be evaluated and transferred by the time of formal acceptance and enrollment. The graduate program/department will be responsible for evaluating and initiating the transfer. Editor’s Note: Also read the Non-Degree Seeking Student definition in Section 4 for information on transfer of non-degree seeking hours.

Dual Degree Programs
A student may wish to pursue two degrees simultaneously. Upon approval by the appropriate College Dean(s) and Dean of the Graduate School, a prescribed number of courses (generally no more than nine (9) hours of core or basic courses) required for one degree may be applied to another degree that requires the same courses, without repetition or alternative courses. Procedures for applying for a Dual degree program are available on the Graduate School website.

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

Change of Graduate Degree Program
Students who wish to change from one degree program to another (at the same level) must obtain a Graduate Change of Program Application from the Office of the Registrar or their college advising office. The new department will consider the Change of Program request as a new application. The Deans of the Colleges involved and the Dean of the Graduate School must approve the Change of Degree. The new department may elect to accept all, some, or none of the graduate courses previously taken by the student and only those courses accepted will be computed in the GPA. Students desiring to change program levels (e.g. from a Master's program to Doctoral program) must submit a new application for admission.
The following sections describe the University requirements established by the Graduate School for the Master’s, Education Specialist, and Doctoral degrees. However, individual programs and colleges may establish additional or more stringent requirements.

**Student Responsibilities**

The University of South Florida and all colleges, departments and programs therein establish certain academic requirements that must be met before a degree is granted. These requirements concern such things as curricula and courses, majors and minors, and academic residence. Faculty and graduate program directors are available to help the 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, programs, and requirements described in the catalog may be suspended, deleted, restricted, supplemented, or changed in any other manner at any time at the sole discretion of the University and the USF Board of Trustees.

**Graduate Faculty Definition**

The University of South Florida defines its graduate faculty to consist of all regular faculty appointed at the Assistant, Associate, or Professor rank, who hold a terminal degree or equivalent in their discipline. Individual academic units have the discretion to establish additional requirements.

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**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. At least twenty (20) hours must be in formal, regularly scheduled course work, ten (10) of which must be at the 6000 level.

Up to six (6) hours of 4000-level courses may be taken as part of a planned degree program. Additional graduate credit may be earned in 4000-level courses only if specifically approved by the appropriate College Dean. Students enrolled in undergraduate courses as part of a planned degree program are expected to demonstrate a superior level of performance. Graduate students may not enroll for more than 18 hours in any semester without written permission from the College Dean.

**Time Limitations**

For students beginning their degree program at USF in fall 1996 or thereafter, all credits (including transfer credits) used to satisfy the requirements for the master’s degree must be taken and completed within seven (7) academic years prior to the date of graduation.

For students who began their degree program at USF before fall 1996, all work applicable to the degree must be completed (or transferred in) within seven (7) academic years from the time a student is admitted into the program.

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. Procedures for requesting an extension to the time limit are available on the Graduate School website. Students who are temporarily unable to continue the program should submit a Leave of Absence Request, which extends the time limit for the duration of the
enrollment Requirements

Major Professor

A major professor will be appointed as soon as possible but no later than the time the student has completed 50% of the program. 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 signed by the student and professor, must be maintained in the student’s department file.

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

Available on the Graduate School Website: http://www.grad.usf.edu/policies.asp

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 the major professor and at least two other members or co-major professors and at least one other member of the department or area of interest in which the degree is sought. (Colleges and Programs may require additional committee members and specify characteristics.)

Member Definition:
All graduate faculty, as defined by the university and the college/department, and approved by their department and college, are assumed by Graduate School as qualified to be a member of and/or supervise a Masters Thesis committee. Persons desiring to serve on a Masters committee who are not defined as Graduate Faculty by the university and the college/department must submit a curriculum vitae and be approved by the department, college, and Graduate School for each committee.

Approval:
Once a committee has been determined, a Supervisory Committee Form, available online at http://www.grad.usf.edu, needs to be completed by the student and submitted to the Committee Members for original signatures. Colleges may use an internal version of the form if they so choose. The original appointment form and two (2) copies should be submitted to the College Associate Dean’s office for approval. A copy of the approved form should be kept in the student’s file.

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

Changes to Committee:
Changes to a Supervisory Committee must be submitted on a Change of Committee Form, available online at http://www.grad.usf.edu. Colleges may use an internal version of the form if they so choose. 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 program and college.

Masters Comprehensive Examination

Prior to clearance for the degree, candidates must perform satisfactorily on a comprehensive examination or an alternative method designated by the academic unit to measure student competency in the major area. Students must be enrolled for a minimum of two (2) hours of graduate credit during the semester when the comprehensive examination is approved Leave (see the section on Leave of Absence in the Enrollment Requirements section.)
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 [http://www.grad.usf.edu/thesis_dissertation.asp](http://www.grad.usf.edu/thesis_dissertation.asp) for complete information about requirements, procedures, and deadlines. For enrollment requirements, refer to the enrollment policies in the Catalog.

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

**Manuscript Processing Fee**
Students participating in the thesis/dissertation process are required to pay a processing fee. If the student fails to complete the process within the semester, they are required to go through the process again and subsequently pay the Manuscript Processing Fee again. 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 Graduate School Petition is filed with the Graduate School not later than the last day of drop/add.

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

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

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**Thesis Final Submission Guidelines**
Information on requirements for submission of the finished and approved manuscript copies is available online at the Thesis and Dissertation website [http://www.grad.usf.edu/thesis_dissertation.asp](http://www.grad.usf.edu/thesis_dissertation.asp)

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, submit their manuscript for processing again, and pay the manuscript processing fee again. Only after the Graduate School 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 Graduate School website.

**Changes after Publication**
Once a thesis is approved and accepted by the Graduate School for publication, it cannot be changed.

**Thesis Change of Grade**
Graduate School will notify the registrar of the change in thesis grade from “Z” to “S” once the final manuscript has been received, reviewed and certified for permanent filing in the University Library.

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**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 degree program 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 Graduate School for approval and archiving.
DOCTORAL DEGREE (Au.D., Ed.D., Ph.D., D.P.T.)

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; programs/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 program. The advisor will advise on any specific subject matter deficiencies and assist in the choice of a major professor and area of research.

Minimum Hours

A minimum of 90 hours beyond the baccalaureate degree is required.

Time Limitations

For students admitted to their doctoral program in Fall 1996 or thereafter, all course work taken after admission to the Ph.D. program and before admission to candidacy must be completed within 5 academic years for those entering with a Master’s degree and within seven (7) academic years for those entering without a Master’s degree. If admitted to candidacy on August 30, 1996 or thereafter, the candidate has five (5) academic years to obtain the doctoral degree. For students admitted to their doctoral program before fall 1996 or admitted to candidacy before August 30, 1996, see the 1995-96 Graduate Catalog for previous time limit rules.

In the event that a student nears the end of the time limitation as specified above, but the student needs more time to complete the degree, the student may submit a request for an extension using the Time Limit Extension Request Form, available on the Graduate School website.
**Doctoral Committee**

As soon as an area of research is determined and a major professor is selected, a Doctoral Supervisory 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 Graduate School.

The Doctoral Committee will approve the student’s course of study and plan for research, supervise the research, grade the written comprehensive qualifying examination, read and approve the dissertation, and conduct the dissertation defense.

**Composition:**
The Doctoral Committee will consist of at least four members, three of whom must come from the academic area in which the major work for the degree will be done.

**Member Definition:**
All graduate faculty as defined by the university and the college/department and approved by their department and college are assumed by Graduate School as qualified to be a member of a Doctoral Committee. Persons desiring to serve on a Doctoral committee who are not defined as Graduate Faculty by the university and the college/department must submit a curriculum vitae and be approved by the Department, College, and, as needed, Graduate School for each committee.

**Approval:**
Once a committee has been determined, a Supervisory Committee Form, available online at [http://www.grad.usf.edu/forms/](http://www.grad.usf.edu/forms/), needs to be completed by the student and submitted to the Committee Members for original signature. Colleges may use an internal version of the form if they so choose.

To insure uniformity of excellence across the colleges, (Co-)Major Professor(s) of Ph.D. Dissertation Committees will need to submit a current curriculum vitae (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.

Once approved, the original form and the approved Curriculum Vitae (CV) are placed in the student’s file.

**Changes to Committee:**
Changes to a Supervisory Committee must be submitted on a Change of Committee Form, available online at [http://www.grad.usf.edu/forms/](http://www.grad.usf.edu/forms/). Colleges may use an internal version of the form if they so choose. 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 program and college. An approved and current Committee Form must be on file before graduation may be certified.

**Doctoral Comprehensive Qualifying Examination**
As soon as the substantial majority of the course work is completed, the student must pass a written comprehensive qualifying examination covering the subject matter in the major and related fields. This examination may be supplemented by an oral examination. Students must be enrolled for a minimum of two (2) hours of graduate credit in their discipline at the time they take the comprehensive examinations. 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**
Students may not be admitted to candidacy until a Doctoral Committee has been appointed, and the Committee has certified that the student has successfully completed the comprehensive qualifying examination and demonstrated the qualifications necessary to successfully complete requirements for the degree. The Admission to Candidacy form should be submitted for approval 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 Dean of the Graduate School for final approval. Doctoral Candidacy is effective as of the day that the Graduate School approves of the request and changes the student’s status.

As long as the Candidacy request is received between the first and last day of class during the fall and spring semesters or between the first day of class and one week before the last day of class in Session B during the summer semester, and the Candidacy is cleared for approval, the Candidacy will be effective as of that semester. Students must have a 3.00 Grade Point Average at the time of candidacy for candidacy to be approved. Candidacy will not be approved if there are any “I” (Incomplete) or “M” (Missing) grades on the transcript. All “I” and “M” grades must be cleared before candidacy may be finalized. Once candidacy status is approved, the student may then enroll in dissertation hours the following semester. Each department determines the total number of dissertation hours required for completion of the degree. Departments may, with College approval, apply Directed Research hours toward the total number of dissertation hours required. No directed research hours will be converted to dissertation hours prior to or during the semester of Candidacy. For more information refer to Enrollment Requirements in the Academic Policies section.

**Dissertation**
The Dissertation must conform to the guidelines of the University. Refer to the Thesis and Dissertation Guidelines, available on the web at [http://www.grad.usf.edu/thesis_dissertation.asp](http://www.grad.usf.edu/thesis_dissertation.asp) for information about requirements, procedures, and deadlines. For enrollment requirements, refer to the enrollment policies in the Catalog.

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

**Manuscript Processing Fee**
Students participating in the thesis/dissertation process are required to pay a processing fee. If the student fails to complete the process within the semester, they are required to go through the process again and subsequently pay the manuscript processing fee again. More information is available on the Thesis and Dissertation website [http://www.grad.usf.edu/thesis_dissertation.asp](http://www.grad.usf.edu/thesis_dissertation.asp)

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**Dissertation Defense**
After the Doctoral 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.) Check with the College and program for college and program specific procedures for this process. Forms are available on the Graduate School website at [http://www.grad.usf.edu](http://www.grad.usf.edu), however, the college and program may use internal forms. A copy of the announcement should be sent to the Graduate School, 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.

**Outside Chair of the Dissertation Defense**
The Dissertation Defense (or Final Oral Examination) shall be presided by a senior and distinguished scholar from outside the department, nominated by the Major Professor. If the chair is from another institution, this individual should have the equivalent qualifications necessary to chair a dissertation in the subject area at the University of South Florida. Note that the Major Professor may not serve as the “Outside Chair.” Forms and procedures for the Dissertation Defense are available on the Graduate School website [http://www.grad.usf.edu/thesis_dissertation.asp](http://www.grad.usf.edu/thesis_dissertation.asp).

**Procedures for Conducting the Oral Defense**

1. The oral defense should be conducted 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 School.

2. All members of the Dissertation Committee must be present for the examination unless an absence is approved by the Graduate School Dean. One-on-one examinations are prohibited.

3. The presentation should be considered an important function in the department and all graduate students and faculty be encouraged to attend.

4. 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 voting is not public.

5. The room selected for the examination should have adequate seating with an alternate room selected in case of problems.

6. The Outside Chair should open the proceedings by introducing the candidate and the Dissertation Committee.

7. The examination should begin with a presentation by the candidate designed to summarize the dissertation.

8. The remainder of the examination may take place in a different setting and will consist of questions about the research by the Outside Chair and the Dissertation Committee and by other interested persons. It is suggested that questioning should be limited to about 15 minutes for each person with subsequent rounds of questioning as necessary.

9. Questions from the faculty-at-large and/or the public may be allowed at the end of the committee’s questioning.

10. The length of the examination period will generally not exceed three hours. Throughout this time the Outside Chair is to be in charge of all proceedings and, ideally, is expected to play a balancing role between advocacy and contention. The Outside Chair, at anytime during the course of the examination, may request all visitors to leave.

11. Following the completion of these proceedings, the Outside Chair will ask all visitors and the candidate to leave and will re-convene the Dissertation Committee only. The Outside Chair may share his/her impressions and opinions of the candidate and the dissertation. The Outside Chair will preside over the deliberations and voting of the committee, but is not to participate in the voting. The voting is to be limited to “pass” and “fail” votes. The Outside Chair has the responsibility of tallying the votes and of informing the candidate of the final decision. The vote of the Dissertation Committee must be unanimous and recorded on the Successful Defense form.

The College Graduate Dean will resolve substitutions and disagreements within the committee.

12. The Outside Chair will convey the decision of the Dissertation Committee (Successful Defense form) to the Department/College Graduate office to be kept in the student’s file.

Suggested guide for dissertation defense proceedings

1. Introduction of Candidate and Committee Members.
2. Presentation by Candidate.
3. Questions by Committee Members.
4. Questions from other faculty and/or other observers.
5. Candidate and observers leave the examination room.
6. Deliberation and voting by the committee, only. Sign documentation (to be determined by College/Department) if defense is successful.
7. The candidate shall be informed of the vote.
8. The record of the successful defense (to be determined by the College or Department) is forwarded to the College/Department for the student’s file.

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 http://www.grad.usf.edu/thesis_dissertation.asp. 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, submit their manuscript for processing again, and pay the manuscript processing fee again. Only after the Graduate School 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 Graduate School website.

**Changes after Publication**

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

**Restriction on Release of Publications**

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

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

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

1. The recommendations of sponsors, regarding publication of research results should be considered advisory rather than mandatory.

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2. The maximum delay in publication allowed for pre-reviews and patent or copyright application should not exceed three months from the date the thesis/dissertation is filed with the Graduate School.

3. Students should not be delayed in the final defense of their dissertations/theses by agreements involving publication delays.


**Dissertation Change of Grade**

The Graduate School will notify the registrar of the change in dissertation grade from “Z” to “S” once the final manuscript has been received, reviewed and certified for permanent filing in the University Library.

**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”
Section 8
Graduation Information

Application for Degree (Graduation)
To graduate, a student must submit the Application for Degree to the Office of the Registrar. 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 available from the Office of the Registrar or the student’s college advising office. The application must first be certified (signed or stamped in the section, “Office Use Only”) by the student’s college. The college retains one copy, and the student must submit the remaining copies to the Office of the Registrar prior to the graduation application deadline. Inquiries concerning approval or denial of graduation should be made to the appropriate college.

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

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

Commencement
Graduate students **may not** participate in commencement exercises **until all requirements** for the degree sought have been fulfilled.

Diplomas
Diplomas are mailed to the student’s permanent address approximately six (6) weeks after commencement. Students with a change of address need to fill out a change of address form at the Registrar’s office. Questions regarding diplomas and degree certification should be directed to the Registrar’s office at 974-2000.

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 social security number, name of degree program and official name of the degree. The Major Professor, the College Dean (or designee), the Coordinator (or designee) in the Graduate School, and the Registrar must sign the Letter of Certification. A template is available on the Graduate School website at [http://www.grad.usf.edu](http://www.grad.usf.edu).

Posthumous Degrees or Degrees in Memoriam
The University may award a posthumous master’s or doctoral (and medical) degree to a student who was in good standing at the University at the time of his or her death and who had completed all substantive requirements for the degree. The University may also award master’s, doctoral and medical degrees in memoriam to a student who was in good standing at the University at the time of his or her death.

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

**Procedures for Award of Posthumous Degrees or Degrees in Memoriam**

The Chairperson of a Department, on his or her own initiative or upon the request of the family of the student, may recommend a posthumous degree, or a degree in memoriam, by forwarding the recommendation to the respective dean of the college. If approved by the Dean, the recommendation with supporting documentation will be forwarded to the Provost for approval. If the Provost approves the recommendation, the Office of the Registrar will be notified and the degree will be awarded at the next commencement ceremony or will be presented to the student’s family in an appropriate setting.

Diplomas for posthumous degrees will be identical to other degrees awarded in the same colleges and majors. Diplomas for Degrees in Memoriam will be prepared to read “Master of Arts in Memoriam, Master of Science in Memoriam,” “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. A student's academic record can only be released upon authorization of the student. Students requesting transcripts may do so in person or by writing to the Office of the Registrar. By law, the request must include the student’s signature and date. For transcripts to be issued, the student must have no financial obligations to the University. Procedures for requesting a transcript are available on the Office of the Registrar’s website at [http://www.registrar.usf.edu/](http://www.registrar.usf.edu/). Degree statements are posted approximately five weeks after the graduation ceremony. Current term grades are posted approximately one week after the final exams end. If grades for the current term are needed, clearly indicate that the transcript request is to be held for grades.
### Section 9

#### Degrees and Concentrations

Following is an alphabetical list of Degree Programs (a.k.a. majors) and Concentrations (a.k.a. specializations) the University is authorized to offer, including 128 master’s, two specialist, 38 doctoral programs, and the Doctor of Medicine (M.D.). New Programs and Concentrations may have been approved since the publication of this list. Others may now be inactive. If a program or concentration is currently inactive, consider contacting the department for information on similar programs. Check with the Graduate Admissions website: [http://admissions.grad.usf.edu/programs.asp](http://admissions.grad.usf.edu/programs.asp) for a current list of active programs. For information about the program or concentration requirements, refer to the program or concentration listing in the corresponding college section of the catalog. For example, to view the requirements for a degree in Accountancy, go to the College of Business section of this publication and then go to the program listing for Accountancy, listed alphabetically within the college’s section.

#### Degree Programs Offered

<table>
<thead>
<tr>
<th>Name</th>
<th>Program College</th>
<th>Program Degree Abbrev</th>
<th>Program Web Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult Education</td>
<td>College of Education</td>
<td>M.A.</td>
<td><a href="http://www.coedu.usf.edu/leaddev/AdultEducation.htm">http://www.coedu.usf.edu/leaddev/AdultEducation.htm</a></td>
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<tr>
<td>Aging Studies</td>
<td>College of Arts and Sciences</td>
<td>Ph.D.</td>
<td><a href="http://www.cas.usf.edu/agingstudies">http://www.cas.usf.edu/agingstudies</a></td>
</tr>
<tr>
<td>American Studies</td>
<td>College of Arts and Sciences</td>
<td>M.A.</td>
<td><a href="http://www.cas.usf.edu/humanities/index.html">http://www.cas.usf.edu/humanities/index.html</a></td>
</tr>
<tr>
<td>Anthropology</td>
<td>College of Arts and Sciences</td>
<td>M.A.</td>
<td><a href="http://www.cas.usf.edu/anthropology/index.html">http://www.cas.usf.edu/anthropology/index.html</a></td>
</tr>
<tr>
<td>Anthropology and Public Health Dual Degree</td>
<td>College of Arts and Sciences</td>
<td>M.A./M.P.H.</td>
<td><a href="http://www.cas.usf.edu/anthropology/index.html">http://www.cas.usf.edu/anthropology/index.html</a></td>
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<td>Applied Anthropology</td>
<td>College of Arts and Sciences</td>
<td>M.A.</td>
<td><a href="http://www.cas.usf.edu/anthropology/index.html">http://www.cas.usf.edu/anthropology/index.html</a></td>
</tr>
<tr>
<td>Applied Anthropology</td>
<td>College of Arts and Sciences</td>
<td>Ph.D.</td>
<td><a href="http://www.cas.usf.edu/anthropology/index.html">http://www.cas.usf.edu/anthropology/index.html</a></td>
</tr>
<tr>
<td>Applied Behavior Analysis</td>
<td>Interdisciplinary Graduate School</td>
<td>M.A.</td>
<td><a href="http://www.grad.usf.edu">www.grad.usf.edu</a></td>
</tr>
<tr>
<td>Applied Physics</td>
<td>College of Arts and Sciences</td>
<td>Ph.D.</td>
<td><a href="http://www.cas.usf.edu/physics/">http://www.cas.usf.edu/physics/</a></td>
</tr>
<tr>
<td>Architecture</td>
<td>School of Architecture and Community Design</td>
<td>M.Arch.</td>
<td><a href="http://www.arch.usf.edu">http://www.arch.usf.edu</a></td>
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<tr>
<td>Art</td>
<td>School of Art and Art History</td>
<td>M.F.A.</td>
<td><a href="http://www.art.usf.edu">http://www.art.usf.edu</a></td>
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<tr>
<td>Name</td>
<td>Program College</td>
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<td>Degree Abbrev</td>
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<tr>
<td>Art History</td>
<td>College of Visual and Performing Arts</td>
<td>M.A.</td>
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<tr>
<td>Audiology</td>
<td>College of Arts and Sciences</td>
<td>M.S.</td>
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<tr>
<td>Audiology</td>
<td>College of Arts and Sciences</td>
<td>Au.D.</td>
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<tr>
<td>Aural (Re)Habilitation</td>
<td>College of Arts and Sciences</td>
<td>M.S.</td>
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<tr>
<td>Bioethics and Medical Humanities</td>
<td>College of Medicine</td>
<td>M.A.B.M.H.</td>
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<tr>
<td>Bioinformatics and Computational Biology</td>
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<td>M.S.B.C.B.</td>
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<td>Biology</td>
<td>College of Arts and Sciences</td>
<td>M.S.</td>
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<tr>
<td>Biomedical Engineering</td>
<td>College of Engineering</td>
<td>M.S.E.S.</td>
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<tr>
<td>Business Administration (Includes Saturday MBA, and programs at Sarasota and St. Pete)</td>
<td>College of Business</td>
<td>M.B.A.</td>
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</tr>
<tr>
<td>Business Administration (Includes Saturday MBA, and programs at Sarasota and St. Pete)</td>
<td>College of Business</td>
<td>Ph.D.</td>
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<tr>
<td>Business and Office Education</td>
<td>College of Education</td>
<td>M.A.</td>
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<tr>
<td>Business Economics</td>
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<td>M.A.</td>
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<tr>
<td>Cancer Biology</td>
<td>Interdisciplinary Graduate School</td>
<td>Ph.D.</td>
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<tr>
<td>Career and Technical Education</td>
<td>College of Education</td>
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<td>Chemical Engineering</td>
<td>College of Engineering</td>
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<td>M.Ch.E.</td>
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<td>Classics: Latin/Greek (Co-op M.A. w/UF)</td>
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<td>M.A.</td>
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<td>Ph.D.</td>
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# Degree Programs Offered

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<th>Program Web Address</th>
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<td>Entrepreneurship in Applied Technologies – New fall 2005</td>
<td>Interdisciplinary Graduate School</td>
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<td><a href="http://www.entrepreneurship.usf.edu">http://www.entrepreneurship.usf.edu</a></td>
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<td>Environmental Science and Policy</td>
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<td>Environmental Science and Policy and Geography</td>
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<td><a href="http://www.cas.usf.edu/esp/">http://www.cas.usf.edu/esp/</a></td>
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<tr>
<td>Executive M.B.A.</td>
<td>College of Business</td>
<td>M.B.A.</td>
<td><a href="http://www.coba.usf.edu">http://www.coba.usf.edu</a></td>
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<td>Executive M.B.A. for Physicians</td>
<td>College of Business</td>
<td>M.B.A.</td>
<td><a href="http://www.coba.usf.edu">http://www.coba.usf.edu</a></td>
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<td><a href="http://www.cas.usf.edu/languages/">http://www.cas.usf.edu/languages/</a></td>
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<td>Industrial Engineering</td>
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<td>Program Web Address</td>
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<td>Spanish</td>
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<td>Speech-Language Pathology (post Bacc)</td>
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<td>Women's Studies</td>
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### Concentrations Offered

*(Note: not all concentrations listed may be currently active)*

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<td>Accelerated Health Education</td>
<td>Public Health</td>
<td>College of Public Health</td>
<td>M.P.H.</td>
<td><a href="http://publichealth.usf.edu/programs_offered.html">http://publichealth.usf.edu/programs_offered.html</a></td>
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<td>Acute Care Nursing</td>
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## Areas of Concentration Offered

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Section 10
Graduate Certificates

Office of Graduate Certificates
University of South Florida
4202 E. Fowler Ave., FAO100B
Tampa, FL 33620

Web address: http://www.outreach.usf.edu/gradcerts/
Email address: gradcerts@admin.usf.edu
Phone: 813-974-2442
Fax: 813-974-7061

Director: Lagretta Lenker
Office Manager: Stephanie Shreve

Certificates Offered
Following is an alphabetical list of Graduate Certificates offered at U.S.F. Some certificates may be currently inactive and new certificates may now be available. For information about Graduate Certificates currently offered and certificate requirements, go to the Graduate Certificate website at: http://www.outreach.usf.edu/gradcerts/

Africana Studies
Addictions and Substance Abuse
Biochemistry and Molecular Biology
Bioinformatics
Career Counseling*
Clinical Epidemiology
Clinical Investigation
College Teaching*
Community Design and Development
Comparative Literary Studies
Convergence Media*
Creative Writing
Cuban Studies
Disaster Management**
Diversity
Entrepreneurship
Environmental Policy and Management
Florida Adapted Physical Education*
Geographical Information Systems Specialist
Geriatric Social Work/Clinical Gerontology
Gerontology
Gifted Education**
Globalization Studies
Health Management and Leadership*
Homeland Security
Hospice, Palliative Care and End of Life Studies
Hydrogeology
Infection Control
Instructional Technology: Distance Education**
Instructional Technology: Instructional Design*
Instructional Technology: Multimedia Design
Instructional Technology: School Networks
Instructional Technology: Web Design**
Interdisciplinary Transportation Program
Literacy in Elementary Programs
Leadership in Developing Human Resources
Marriage and Family Therapy
Materials Science and Engineering
Mental Health Counseling
Mental Health Planning, Evaluation and Accountability
Museum Studies
Music
Non-Profit Management
Nursing and Healthcare Informatics
Nursing Education
Play Therapy
Political Science
Post Master’s Nurse Practitioner
Post-Master’s: Library and Information Science*
Public Management
Reading Certificate and Endorsement Program
Rehabilitation Technology
Safety Management
School Library Media Specialist*
Social Marketing & Public Health
Social Science Education
Solid and Hazardous Waste Management
Statistical Data Analysis
Teaching Composition
Teaching English as a Second Language (TESL) or Foreign Language
Technology Management***
Total Quality Management***
Violence and Injury: Prevention and Intervention
Wireless Engineering***
Women's Health
Women's Studies
* Partially online
**Fully online
***Fully online via FEEDS (Florida Engineering Education System)
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 Graduate School; 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 degree program. While the courses comprising a graduate certificate may be used as evidence in support of a student’s application for admission to a degree program, the certificate itself is not considered to be a prerequisite.

Process of Approval for New Graduate Certificates

Proposals for new areas of study for graduate certificates are created and submitted by the academic unit that wishes to offer such a certificate. Proposals must be accompanied by endorsement from the department heads and deans of the colleges/schools in which the contributing course work is offered as well as from the academic unit or units whose students or degree programs could be impacted by the creation of the graduate certificate. The Graduate Council will consider all the proposals for new graduate certificates to assure proposal guidelines have been followed and that repetition and redundancy across areas of study for certificates are not evident. Those meeting the criteria set forth by Graduate Council will then be recommended to the Provost for approval.

Criteria for Approval

The general principles applied to the assessment of the academic quality of proposals for new graduate areas of study for certificate include:

1. The proposed sequence of course work must offer a clear and appropriate educational objective at the post-baccalaureate level.

2. The proposed curriculum will achieve its educational objective in an efficient and well-defined manner.

3. A perceived need for such a certificate should exist. This provision might be defined in terms of either external markets (i.e., external demand for the skills associated with such a certificate) or internal academic means (i.e., the need for a critical mass of students in a given discipline).

4. An appropriate number of credit hours must comprise the area of study for the certificate. The number of graduate credits cannot be less than nine (9) or more than one-half of the credits necessary for a related master’s degree from the Graduate School.

5. If the area of study for a certificate requires new courses, those courses must be approved by the appropriate College bodies or offices and the Graduate Council.

Student Eligibility and Admission Criteria

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

1. An earned baccalaureate degree or its equivalent from a regionally accredited college or university or enrollment in a USF five-year academic program is required. Students in five-year academic programs may be admitted upon completion of 120 semester hours.

2. Each graduate area of study sets the requirements for admission, including minimum grade point average, standardized test scores, and other similar criteria as part of the application.

3. Students who wish to pursue a graduate certificate must apply and be admitted to the certificate area. Students are encouraged to contact the coordinator prior to applying. All students who wish
to pursue approved graduate certificates must be admitted to such areas of study before one-half of the required credits are completed.

4. Certificate-seeking students not currently enrolled in a degree-granting graduate program, will be admitted into a separate classification within the University, and will be classified as “Graduate Certificate Students.” This separate classification will permit the University to monitor statistical and enrollment data for certificate areas of study, and will allow inclusion of such efforts in the annual reports and academic planning. The Graduate Certificate Office will note successful completion of a certificate on the student’s transcript upon completion.

5. 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 standing”.

6. All graduate certificate students may apply one graduate course to two graduate certificates.

7. All graduate certificate students must meet all prerequisites for courses in which they wish to enroll. Should a graduate certificate student subsequently apply and be accepted to a degree-granting program, up to twelve (12) hours of USF credit earned as a graduate certificate student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the degree-granting college and must be appropriate to the program.

Certificate Requirements

To receive a graduate certificate:

1. Students must successfully complete certificate requirements as established by the university.

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

3. Students must have been awarded a bachelor’s or higher degree.
Section 11

School of Architecture and Community Design

University of South Florida
School of Architecture and Community Design
3702 Spectrum Blvd. #180
Tampa, FL 33612

Web address:  http://www.arch.usf.edu/
Email address:  information@arch.usf.edu
Phone: 813-974-4031
Fax: 813-974-2557

Interim School Dean:  Daniel S. Powers
Associate Dean:  n/a
Graduate Coordinator:  Daniel S. Powers

Accreditation:
Accredited by the National Architecture Accrediting Board.

Mission Statement:
The School of Architecture and Community Design emphasizes architecture and community design proficiency, technical competency, and applied research that constitute thorough preparation for practice into the 21st century. The school seeks to create environments in which students and faculty can: experience and appreciate the poetry of architecture; study the myriad forms of community and human habitat; understand how past designs can inform future possibilities; master the technologies necessary to create a sound, ecological world; develop a vision of what such a world might be; assume leadership roles in helping achieve this vision. The school also aims to increase the general understanding of environmental design through undergraduate education programs, public events and exhibitions, and dialogue about emerging issues and it develops and transmits new knowledge through advanced certificate programs and continuing education programs.

Major Research Areas:
Architecture and Community Design

Types of Degrees Offered:
Master of Architecture (M.Arch.)

Name of Programs Offered:
Architecture

Concentrations:
n/a

Graduate Certificates Offered:
Community Design and Development

College Requirements:
n/a
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

ARCHITECTURE

Master of Architecture (M.Arch.)

DEGREE INFORMATION

Degree Offered: Master of Architecture - M.Arch.
Degree Program: Architecture
Concentration: n/a

EXAMPLE OF CONCENTRATION PAGE

ADULT EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Adult Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
ARCHITECTURE

Master of Architecture (M.Arch.)

DEGREE INFORMATION

Degree Offered: Master of Architecture (M.Arch.)
Degree Program: Architecture
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Interim Dean: Daniel S. Powers
Other Contact: n/a
Phone: 813-974-4031
Fax: 813-974-2557
Email: information@arch.usf.edu
Web Address: http://www.arch.usf.edu/

PROGRAM INFORMATION

The program leading to the accredited Master of Architecture degree is intended for students who have completed baccalaureate degrees in non-architectural majors or with a pre-professional undergraduate major in one of the design professions. 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, 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, multidisciplinary 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 1998 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, has 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.Arch. Program, students must be accepted by the Graduate School 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.

Program Admission Requirements
The Master of Architecture (M.Arch.) requires a 3.0 undergraduate GPA; GRE Test Score; Portfolio of creative work; Completed 3 prerequisite courses: Physics, Calculus, and AutoCAD; Written Statement of Intent.
Program Admission Deadlines
Fall Deadline: February 1
Fall admissions only.

DEGREE PROGRAM REQUIREMENTS
The M.Arch. Degree normally requires 105 credit hours of coursework for students with baccalaureate degrees in non-architectural subjects. In order to complete the program in a timely manner, students must complete 15-17 credit hours per semester. Students with undergraduate degrees in architecture or related fields may receive waivers for some required courses for which a grade of B or better was earned. Students with four-year pre-professional degrees from a NAAB/CAAB accredited program (U.S. and Canada) must complete a minimum of 52 credit hours in the Master of Architecture program. Students with five or six year professional degrees from a NAAB/CAAB accredited program must complete a minimum of 30 credit hours in the program. For more detailed information, interested students should contact the School directly or visit its website.

Course Requirements:
Prerequisites: College level Physics*, calculus*, Computer-aided Design, competence in design/graphics (portfolio)

History/Theory
ARC 5731 – Architectural History I*
ARC 5732 – Architectural History II*
ARC 5256 – Design Theory*

Technology
ARC 5470 – Intro to Technology*
ARC 5467 – Materials and Methods*
ARC 5587 – Structures I*
ARC 5588 – Structures II*
ARC 5689 – Environmental Technology*
ARC 6481 – Design Development
One elective in technology

Design/Graphics
ARC 5361 – Core Design I*
ARC 5362 – Core Design II*
ARC 5363 – Core Design III*
ARC 6364 – Advanced Design A *
ARC 6365 – Advanced Design B
ARC 6366 – Advanced Design C
ARC 6970 - Masters Project Planning
ARC 6971 - Masters Project OR ARC 6367 – Advanced Design D
One elective in Design/Graphics*

Professional Practice
ARC 6287 – Professional Practice I
ARC 6288 – Professional Practice II

Urban Design
One elective in Urban Design

Free Electives
9 credit hours required

*Courses marked by asterisk (*) may be completed in undergraduate pre-professional or similar programs with a grade of B or above and with approval of faculty advisor.

OTHER REQUIREMENTS

Computers
The School of Architecture and Community Design requires each student enrolled in the Advanced Design Studios level, or higher, to possess (through purchase or lease) a NOTEBOOK COMPUTER system.

The notebook computer requirement allows students to conduct the majority of digital work, which is an integral aspect of advanced architectural design education and professional practice, in the design studio. The studio is the primary place for the exchange of design ideas, critique, and synthesis, and the Architecture faculty believes that the student’s regular presence in the studio is critical for maximizing her or his architectural design learning.

The notebook system is required in lieu of a desktop in order to address the limited design studio space available to each student. The mobility of the notebook allows the student to easily and quickly transform a relatively small desk space into a variety of configurations suitable for physical model-making, hand-drawing, hand-drafting, design research, and design writing as well as digital drawing, modeling, and graphic design. The battery-powered notebook allows for maximum computer use within environments with limited electrical power outlets.

The School will continue to maintain high-powered computer systems in the laboratory for intensive computing required for manipulating large digital models, renderings, etc. Students may begin their digital work on their laptops and, if needed, use removable storage and network connections to transfer files to the lab systems for final development. The School provides black and white printers, color and black and white plotters, and scanners in the computer laboratory.

Because the notebook computer system is an educational requirement of the School, the cost of a new computer purchase can be factored in determining a student’s financial need. The student must contact the USF Office of Financial Aid (813-974-4700) to request additional information and a “Budget Adjustment for Computer Purchase” form prior to ordering a computer. The decision regarding a student’s budget adjustment may take 6-8 weeks, so students are strongly encouraged to plan ahead. Only one financial aid budget adjustment up to $2,500 for a new computer can be issued during a three year period.
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 program. The portfolio policy is described in a handout available from the main office. 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
Each year students in the fall term beginning students in take a field trip to Savannah, GA. Transportation, lodging and meals ($200-300) are paid by the students. Students in design studios take field trips to such cities as New York, Boston and Chicago in the spring. The cost of these trips may be $200-600 per student.

Student Work
Student work, submitted to the School in satisfaction of course or degree requirements, becomes the physical property of the School. This work may include papers, drawings, models, and other materials in either physical or electronic form. The School assumes no responsibility for safeguarding such materials. At its discretion, this School may retain, return, or discard such materials. The School will not normally discard the materials of currently enrolled students without giving the student a chance to reclaim them.

GPA of 3.0 in Design
In addition to the state-wide requirement that students maintain an overall grade point average(GPA) of 3.0 or better, the Architecture faculty also requires that students maintain a GPA of 3.0 or better in all design courses.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
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 essentials 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 university. 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.

Major Research Areas:
See individual departments.

Types of Degrees Offered:
Master of Arts (M.A.), Master of Liberal Arts (M.L.A.), Master of Public Administration (M.P.A.), Master of Science (M.S.), Master of Social Work (M.S.W.), Doctor of Audiology (Au.D.), Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Arts - M.A

M.A. Programs for Secondary School Teachers and Jr. College Teachers (offered with College of Education)

Master of Liberal Arts - M.L.A
Master of Public Administration - M.P.A

Master of Science - M.S.
Audiology, Aural Rehabilitation, Biology, Chemistry, Environmental Science and Policy, Geology, Microbiology, Physics, Speech-Language Pathology

Master of Social Work - M.S.W.
Maternal and Child Health/Clinical Social Work – Dual Program

Doctor of Audiology - Au.D.

Doctor of Philosophy - Ph.D.
*offered through the Department of Secondary Education

Areas of Concentrations:
Addictions & Substance Abuse Counseling
Africana Studies
American History
Analytical Chemistry
Ancient History
Applied Physics
Aqueous Geochemistry
Atmospheric Physics
Atomic and Molecular Physics
Biochemistry
Biogeochemistry
Clinical Psychology
Coastal Geology
Coastal Marine Biology – new 2003
Cognitive and Neural Sciences
Computational Chemistry
Conservation Biology – new 2003
Creative Writing
Environmental Chemistry
Economic, Social and Planning Issues in Urban Environment
Environmental Geophysics
European History
Florida Studies
Geographic Information Systems and Spatial Analysis
Geomorphology
Hearing Sciences and Audiology
Humanities
Hydrogeology
Industrial and Organizational Psychology
Inorganic Chemistry
Journalism Studies
Laser Physics
Latin American History
Latin/Greek: co-op program with U.F.
Liberal Studies
Literature
Marriage and Family Therapy
Mass Communication Studies
Materials Physics
Medical Physics
Medieval History
Molecular Cellular- new 2003
Natural/Technological Hazards and Environmental Justice
Neurocommunicative Sciences
Optical Physics
Organic Chemistry
Paleoclimatology
Paleontology
Petrolology
Physical Chemistry
Polymer Chemistry
Public Relations Studies
Pure and Applied Rhetoric and Composition
Semiconductor Physics
Social and Political Thought
Solid State Physics
Speech-Language Sciences
Statistics
Tectonophysics

Graduate Certificates Offered:
See Graduate Certificates Section

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 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 6 credit hours of Dissertation during each previous 12-month period (previous 3 terms, e.g., Fall, Spring, Summer) until the degree is granted.
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

AGING STUDIES

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Aging Studies
Concentration: n/a

EXAMPLE OF CONCENTRATION PAGE

ADULT EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Adult Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
AGING STUDIES

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Aging Studies
Concentrations: n/a
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Cathy McEvoy
Other Contact: n/a
Phone: 813-974-2414
Fax: 813-974-9754
Email: cmcevoy@luna.cas.usf.edu
Web Address: http://www.cas.usf.edu/gerontology/
Mailing Address:
University of South Florida
School of Aging Studies
4202 E. Fowler Avenue MHC1338
Tampa, FL 33620

PROGRAM INFORMATION

The Interdisciplinary Ph.D. in Aging Studies is the first of its kind in the United States, and to the best of our knowledge, the world. What makes this program 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 program draws on the expertise of faculty from all colleges, departments, and centers at the University of South Florida to provide students with exposure to other disciplines and the different approaches to scientific and scholarly inquiry.

The Ph.D. in Aging Studies is hosted by School of Aging Studies, which is the organizational focal point for interdisciplinary research, educational, clinical and community service activities for faculty and students. An interdisciplinary committee of faculty governs the program, therefore, students can develop a research program, which focuses on their particular interests, including faculty throughout the university.

The Ph.D. in Aging Studies is a research-oriented program designed to train future leaders in the field of aging. The program admits students who show exceptional promise to become strong academic, public sector, and corporate researchers. Students should expect to enroll in the program full time (9 credits in fall, 9 credits in spring, and 6 credits in summer). First year students are generally supported with at $15,000 fellowship, tuition waiver, and health insurance. Fellowship or assistantship support and tuition waivers are generally available during subsequent years of doctoral training.

Faculty Organization
The interdisciplinary nature of the program is exemplified by the number of core faculty credentialed to teach in the program and the range of academic departments they represent. Over forty faculty from ten colleges and research centers have been identified as the core faculty in the program. They represent over sixteen academic departments. Additional faculty are expected to augment the core faculty bringing increased diversity and interdisciplinary expertise to the program.

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

ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) and any program requirements listed below.

Program Admission Requirements
GPA of 3.25 and a combined V/Q GRE score of 1100 with each subscore being 500 or higher. Applicants where English is not the language of instruction must also submit a TOEFL score of at least 600. In addition, students must submit their best example of a single authored writing sample, and a summary of their career goals and past preparation for a research career plus three letters of recommendation from individuals familiar with the student’s work and/or research.

Program Admission Deadlines
Fall Deadline: February 1
Fall admissions only.
DEGREE PROGRAM REQUIREMENTS
There are 4 three-credit courses that constitute the core interdisciplinary requirements for the program and 2 courses that fulfill the Tools of Research requirements. The requirements are enrollment in Psychological Aging: Interdisciplinary Perspectives, Biomedical Aging, Population Aging, and Social and Health Aspects of Aging. Each core course is taught from an interdisciplinary perspective with faculty from different fields addressing issues from their disciplinary perspectives. Students must also enroll in one research methods and one statistical/analytical methods course.

Students are required to enroll in the Aging Studies Pro-seminar (2 credits) each fall and spring semester continuously after their first semester until they are Admitted to Candidacy. The Pro-seminars investigate different topics each semester and are led by faculty from different disciplines as well as guest speakers.

Students entering the program may be advised to take additional courses to prepare them for careers as researchers and scholars in their area of specialization within Aging Studies. Students entering with master's degrees in relevant disciplines may not need to take additional courses. 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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
AMERICAN STUDIES

Master of Arts (M.A.)

DEGREE INFORMATION
Degree Offered: Master of Arts (M.A.)
Degree Program: American Studies
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION
Program Director: Ruth Banes
Phone: 813-974-2431
Fax: 813-974-9409
Email: rbanes@cas.usf.edu
Web Address: http://www.cas.usf.edu/humanities/index.html

PROGRAM INFORMATION
The Master of Arts in American Studies offers students the opportunity to study the immensely complicated social relations and cultural patterns that have unified and sometimes divided Americans. Students examine popular culture, as well as elite culture, heroines and heroes, the lives of ordinary people, in addition to recognized historical and cultural figures.

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

ADMISSION INFORMATION
Must meet University requirements (see Graduate Admissions) and program requirements listed below.

Program Admission Requirements
3.0 upper division undergraduate GPA or a GRE of at least 1000 with a verbal score of 500 or higher and an analytical writing score of not less than 4.5, plus three letters of recommendation, demonstrated knowledge of United States culture, history, literature, etc., and an interview with the advisor.

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS
Total required hours (33)
1. 12 hours: AMS 6156, AMS 6254, AMS 6805, and AMS 6938
2. 15 hours: To be selected from 5000 or 6000 level courses in American Studies and/or related departments, such as: English, History, Humanities, Philosophy, Religious Studies, Sociology, and Women's Studies. No more than 6 hours from any one department may be credited toward the degree without written consent from the Graduate Director. Work in AMS 6002, AMS 6375, AMS 6901, AMS 6915, AMS 6934, and AMS 6940 may be included.
3. 6 hours: Thesis AMS 6971.

During the semester immediately following completion of required course work, each student should take a written examination on two areas of concentration, selected after consultation with the Graduate Director so that they will be relevant to the student's thesis.

The thesis is an extended research project within a specific area of Concentration, culminating in a written academic analysis. Upon completion of the thesis, the subject of which must be determined in consultation with the Graduate Director, the student must schedule an oral defense.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
ANTHROPOLOGY

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Anthropology
Concentrations: n/a
Program Status: Inactive
Program Level: Masters

CONTACT INFORMATION

Program Director: Brent Weisman
Other Contact: n/a
Phone: 813-974-2138
Fax: 813-974-2668
Email: nfenelon@cas.usf.edu
Web Address: http://www.cas.usf.edu/anthropology/index.html

Mailing Address:
University of South Florida
Anthropology
Anthropology Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

Inactive. Currently, students are not being admitted to this program.
## ANTHROPOLOGY AND PUBLIC HEALTH

**Dual Degree Program**  
**Master of Arts (M.A.)/Master of Public Health (MPH)**

### DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Degrees Offered:</th>
<th>Master of Arts (M.A.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Master of Public Health (MPH)</td>
</tr>
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<td>Degree Program:</td>
<td>Anthropology / Public Health</td>
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<td>n/a</td>
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<tr>
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<tr>
<td>Program Level:</td>
<td>Masters</td>
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</table>

### CONTACT INFORMATION

- **Program Director:** Brent Weisman  
- **Other Contact:** n/a  
- **Phone:** 813-974-2138  
- **Fax:** 813-974-2668  
- **Email:** nfenelon@cas.usf.edu  
- **Web Address:** [http://www.cas.usf.edu/anthropology.index](http://www.cas.usf.edu/anthropology.index)

### MAILING ADDRESS

University of South Florida  
Anthropology  
Dual Degree Program  
4202 E. Fowler Avenue, SOC107  
Tampa, FL 33620

### PROGRAM INFORMATION

The two programs review applicants independently. A single graduate school application form is completed, listing both anthropology and public health as major areas of study. The review process may begin in either college. The timing of application should take into consideration that the COPH admits students three times a year (Fall, Spring, and Summer) and the Department of Anthropology admits students annually in the Fall. Once the applicant has been accepted into one program, the application folder is forwarded to the other program for review.

After admission to both programs, the Graduate Admissions office instructs the Registrar’s Office to classify the student as dually enrolled in anthropology and public health. In choosing which program to apply to first, students should take into consideration the following: requirements in Anthropology for admission are different than in Public Health; admission to one program doesn’t guarantee admission to the other; and of course, the student’s interests and career plans.

Upon completion of all requirements for the dual degree program, the student submits separate applications for graduation in anthropology and public health, and is certified for graduation by both programs and receives two diplomas.

### ADMISSION INFORMATION

Must meet University requirements (see Graduate Admissions) and program requirements listed below.

**Program Admission Requirements**

Must meet all admissions criteria established by USF with the exception that applicants must have a 3.20 undergraduate GPA and 1100 on the verbal/quantitative portions of the GRE plus

1. a statement of purpose
2. a signed Research Ethics statement
3. at least 3 letters of recommendation
4. a resume
5. graduate assistant application form (optional)

**Program Admission Deadlines**

- **Fall Deadline:** January 15
- Fall admissions only.

### DEGREE PROGRAM REQUIREMENTS

#### M.A. in Applied Anthropology (37 hours)

1. ANG 5937 Graduate Proseminar I (3cr)  
2. ANG 6931 Graduate Proseminar II (3cr)  
3. ANG 6701 Contemporary Applied Anthropology (3cr)  
4. ANG 6766 Research Methods in Applied Anthropology (3cr)
5. Graduate level statistics course fulfilled by PHC 6050 Biostatistics I

6. three graduate level seminars (variable topics) in Anthropology, at least two in the area of medical anthropology (usually ANG 6469 Selected Topics in Medical Anthropology); one of these fulfilled by taking in public health PHC 6410 Social and Behavioral Sciences Applied to Health or PHC 6931 Advanced Seminar in SBS Applied to Health

7. One graduate level course outside the Department of Anthropology fulfilled by public health courses

8. Comprehensive examination requirement met by successfully completing ANG 6931 (Graduate Proseminar II)

9. Internship: ANG 6915; one semester, full-time after completion of course requirements, in the field of public health to dually fulfill MPH requirement for Supervised Field Experience PHC 6945, 4 credit hours minimum

10. Thesis: ANG 6971; dually fulfills MPH requirement for Special Project, PHC 6977, 6 credit hours minimum

MPH in Public Health (38-51 hours)
Requirements include public health core courses, concentration area courses, electives, supervised field placement, comprehensive exam, and special project.

1. Public Health Core Courses (15 hours, required for all concentration areas):
   a) PHC 6410 Social and Behavioral Sciences Applied to Health (3)
   b) PHC 6000 Epidemiology (3)
   c) PHC 6050 Biostatistics I (3)
   d) PHC 6102 Principles of Health Policy and Management (3)
   e) PHC 6357 Environmental and Occupational Health (3)

2) Concentration Area Courses
   a) Health Policies and Programs
   b) Health Care Organizations and Management
   c) International Health Management
   d) Epidemiology
   e) Environmental Health
   f) Tropical Public Health/Communicable Disease
   g) Maternal and Child Health
   h) Public Health Education

For program descriptions and requirements, please see College of Public Health

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
ANTHROPOLOGY AND PUBLIC HEALTH

Dual Degree Program
Doctor of Philosophy (Ph.D.)/Master of Public Health (MPH)

<table>
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<tr>
<th>DEGREE INFORMATION</th>
<th>CONTACT INFORMATION</th>
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<tr>
<td>Degrees Offered:</td>
<td>Program Director: Brent Weisman</td>
</tr>
<tr>
<td>Doctor of Philosophy (Ph.D.) / Master of Public Health (MPH)</td>
<td>Other Contact: n/a</td>
</tr>
<tr>
<td>Degree Program:</td>
<td>Phone: 813-974-2135</td>
</tr>
<tr>
<td>Anthropology and Public Health</td>
<td>Fax: 813-974-2668</td>
</tr>
<tr>
<td>Concentrations:</td>
<td>Email: <a href="mailto:nfenelon@cas.usf.edu">nfenelon@cas.usf.edu</a></td>
</tr>
<tr>
<td>n/a</td>
<td>Web Address: <a href="http://www.cas.usf.edu/anthropology/index.html">http://www.cas.usf.edu/anthropology/index.html</a></td>
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<tr>
<td>Program Status:</td>
<td>Mailing Address: University of South Florida Anthropology Dual Degree Program 4202 E. Fowler Avenue, SOC107 Tampa, FL 33620</td>
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<tr>
<td>Active</td>
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<tr>
<td>Program Level:</td>
<td></td>
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<tr>
<td>Doctoral and Masters</td>
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</table>

PROGRAM INFORMATION
Students interested in combining a program of study leading to a doctorate plus master’s degree have two choices: they may obtain a Ph.D. in Applied Anthropology with an M.P.H. in a Public Health concentration; or they may obtain a Ph.D. in Public Health with an M.A. in Applied Anthropology. For the doctoral/master’s combination, students develop individual programs of study in consultation with an interdisciplinary academic advisory committee. The committee must approve the plan of study as well as the proposal to fulfill the thesis and dissertation requirements or dissertation and special project requirements through a single project.

The two programs review applicants independently. A single graduate school application form is completed, listing both anthropology and public health as major areas of study. The review process may begin in either college. The timing of application should take into consideration that the COPH admits students three times a year (Fall, Spring, and Summer) and the Department of Anthropology admits students annually in the Fall. Once the applicant has been accepted into one program, the application folder is forwarded to the other program for review. After admission to both programs, the Graduate Admissions office instructs the Registrar’s Office to classify the student as dually enrolled in anthropology and public health. In choosing which program to apply to first, students should take into consideration the following: requirements in Anthropology for admission are different than in Public Health; admission to one program doesn’t guarantee admission to the other; and of course, the student’s interests and career plans. Upon completion of all requirements for the dual degree program, the student submits separate applications for graduation to anthropology and public health, and is certified for graduation by both programs and receives two diplomas.

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

ADMISSION INFORMATION
Must meet all University requirements (see Graduate Admissions) and program requirements listed below.

Program Admission Requirements
Must meet all admissions criteria established by USF with the exception that applicants must have a 3.20 undergraduate GPA and 1100 on the verbal/quantitative portions of the GRE plus
1) a statement of purpose
2) a signed Research Ethics statement
3) at least 3 letters of recommendation
4) a resume
5) graduate assistant application form (optional)

Admission requirements for the Ph.D. in Public Health include at least a 3.0 GPA at both the undergraduate and graduate levels, and a GRE of 1100 (verbal + quantitative).
In addition, admission to any of the dual degree programs will consider letters of recommendation, past experience, goal statement and availability of faculty.

Program Admission Deadlines
Fall deadline: January 15

DEGREE PROGRAM REQUIREMENTS
Contact Colleges for information.

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm
APPLIED ANTHROPOLOGY

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Applied Anthropology
Concentrations: n/a
Program Status: Active
Program Level: Masters

PROGRAM INFORMATION

The M.A. program, 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, urban policy and community development, educational anthropology, archaeology, cultural resource management (CRM), economic development, immigration, and issues pertaining to race, gender, and ethnicity. Geographic specializations emphasize the Caribbean, Latin America and the United States. More than 200 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.

Master’s level anthropology at USF has two tracks, both leading to the M.A. in Applied Anthropology. One track emphasizes applied cultural anthropology and the other focuses on public archaeology. Although these two tracks share some common requirements, and both are bound by general rules of the USF Graduate School, they have different curricula and employment trajectories. Public Archaeology graduates typically enter careers in contract archaeology, or public and private agencies and museums responsible for managing archaeological resources. Others go on to earn doctoral degrees and have gained employment in academic or higher level nonacademic positions.

CONTACT INFORMATION

Program Director: Brent Weisman
Other Contact: n/a
Phone: 813-974-2138
Fax: 813-974-2668
Email: nfendeln@cas.usf.edu
Web Address: http://www.cas.usf.edu/anthropology/index.html

Mailing Address:
University of South Florida
Anthropology
Applied Anthropology Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

ADMISSION INFORMATION

Program Admission Requirements
Must meet all admissions criteria established by USF with the exception that applicants must have a 3.20 undergraduate GPA and 1100 on the verbal/quantitative portions of the GRE plus
1) a statement of purpose
2) a signed Research Ethics statement
3) at least 3 letters of recommendation
4) a resume
5) graduate assistant application form (optional)

Program Admission Deadlines
Fall Deadline: January 15
Fall admission only.
DEGREE PROGRAM REQUIREMENTS
Total required hours (40)

Comprehensive exam requirement satisfied upon successful completion of Proseminar II (ANG 6931)

Core Requirements:

**Applied Anthropology cultural track** MA students are required to take ANG 5937 (Graduate Proseminar I), ANG 6931 (Graduate Proseminar II), ANG 6701 (Contemporary Applied Anthropology) and ANG 6766 (Research Methods in Applied Anthropology), plus four (4) elective graduate seminars in Anthropology.

**Public Archaeology track** MA students are required to take ANG 5937 (Graduate Proseminar I), ANG 6931 (Graduate Proseminar II), ANG 6198 (Archaeological Methods), ANG 6196 (Archaeological Theory), and ANG 6197 (Public Archaeology), plus two (2) electives in archaeology, and one (1) elective in biological anthropology.

One graduate level statistic course (ANG 5937: Seminar in Anthropology).

One graduate level course outside of the Anthropology Department

ANG 6915: MA Internship, 4 credit hours minimum.

ANG 6971: Thesis (6 credit hours), at least 2 credit hours per semester until thesis is accepted.

COURSES
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
APPLIED ANTHROPOLOGY

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Applied Anthropology
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Brent Weisman
Other Contact: n/a
Phone: 813-974-2138
Fax: 813-974-2668
Email: nfenelon@cas.usf.edu
Web Address: http://www.cas.usf.edu/anthropology/index.html
Mailing Address:
University of South Florida
Anthropology
Applied Anthropology Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The Ph.D. program in Applied Anthropology, initiated in 1984, was the first doctoral program of its kind. Its primary focus is to prepare students in the theories, methods, skills and techniques of applied anthropology. The program is designed to prepare students to conduct research, teach, and practice applied anthropology in both academic and nonacademic settings. Students participate in either a structured research internship or independent field research for two consecutive semesters. Collaborative agreements with the Colleges of Public Health, Medicine, Nursing, and Education, along with The Florida Mental Health Institute, Center for Urban Transportation Research, Area Center on Aging, Anchin Center, USF Community Initiative, Center for Globalization Research, Center for Disease Control and Prevention, the Center for Disaster Management and Humanitarian Assistance, Battelle Center for Health Studies, Hillsborough Children’s Board, and the Latin American and Caribbean Studies Center provide students with access to a wide range of faculty experience and expertise.

Within the Ph.D. program in Applied Anthropology is the Ph.D. archaeology track at the University of South Florida. This track is designed to meet the needs and demands of 21st century archaeology. It is a comprehensive program that builds on our highly successful M.A. program, and integrates the subfields of anthropology while providing in-depth coursework in archaeology and related disciplines. The program is designed to prepare students to conduct research, teach, and practice archaeology in public, private, and academic sectors. Students participate in either a structured research internship or independent field research. Collaborative agreements with local, state and federal agencies and museums provide students with access to a wide range of internship and research opportunities. Faculty specialize in various area including historic and prehistoric archaeology in the United States, Latin America and Europe; archaeological science; cultural resource management and public archaeology; and museum studies.

For information regarding the dual degree Ph.D./MPH program with the College of Public Health, see the separate listing under Anthropology or Public Health.

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

Major Research Areas:
Biocultural medical research in the U.S., Latin America, and Africa, media and visual anthropology, urban anthropology, Florida archaeology, Mesoamerican archaeology, archaeological science, cultural resource management, language shift and revitalization, bilingualism

ADMISSION INFORMATION

Program Admission Requirements
Must meet all admissions criteria established by USF with the exception that applicants must have a 3.20 undergraduate GPA and 1100 on the verbal/quantitative portions of the GRE plus
1) a statement of purpose
2) a signed Research Ethics statement
3) at least 3 letters of recommendation
4) a resume
5) graduate assistant application form

Program Admission Deadlines
Fall Deadline: January 15
Fall admission only.

DEGREE PROGRAM REQUIREMENTS

Total required hours: 60 hours beyond the M.A.

Course requirements:
1. Upon completion of any prerequisites: ANG 7933 (Graduate Proseminar I) followed by ANG 7938 (Graduate Proseminar II).

2. Proseminars I and II. Must receive a grade of “B” or better; satisfies preliminary examinations in four subfields upon successful completion of ANG 7938 (Graduate Proseminar II)

3. For Ph.D. Applied track, five additional required courses within the Department of Anthropology: ANG 6490 (Seminar in Cultural Anthropology [when topic is Anthropological Theory Today]), ANG 6701 (Contemporary Applied Anthropology), ANG 6766 (Research Methods in Applied Anthropology), ANG 7704 (Legal and Ethical aspects of Applied Anthropology), ANG 7750 (Research Methods in Applied Anthropology [when the topic is quantitative methods]. For the Archaeology track: ANG 6198 (Archaeological Methods), ANG 6196 (Archaeological Theory and Current Issues), ANG 6197 (Cultural Resource management [if not take in the MA program]).

4. Four elective graduate level Anthropology courses.

Tools of research
a.) Advanced quantitative methods ANG 7750 (Research methods in Applied Anthropology).
b.) Two additional skills area; e.g., foreign languages, qualitative research methods.

External specialization
Minimum of three graduate level courses taken outside the Department of Anthropology, with consent of advisor; students with M.A. degrees in disciplines other than Anthropology may, at the discretion of the Advisor and Supervisory Committee, use the M.A. if not in anthropology as proof of the external specialization.

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. The supervisory committee may 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 covering area of specialization within applied anthropology and external specialization.

Two-semester internship or dissertation research ANG 7940 (Doctoral Internship in Applied Anthropology, minimum of 6 credit hours).

Dissertation, based on research or internship ANG 7980 (Doctoral Dissertation, minimum of 12 credit hours). Students are required to accumulate a minimum of 6 credits in dissertation hours during each 12-month period (e.g., Fall, Spring, Summer) until the degree is granted.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
APPLIED PHYSICS

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Applied Physics
Concentrations:
- Atmospheric Physics
- Atomic and Molecular Physics
- Computational Physics
- Laser Physics
- Materials Physics
- Medical Physics
- Optical Physics
- Semiconductor Physics
- Solid State Physics

Also offered as:
Joint M.S. Degree – Physics/Engineering Science
Interdisciplinary arrangement - Ph.D. in Engineering Science

Program Status: Active

CONTACT INFORMATION

Program Director: Sarath Witanachchi
Other Contact:
Phone: 813-974-2789
Fax: 813-974-5813
Email: switanac@cas.usf.edu
Web Address: http://www.cas.usf.edu/physics/
Mailing Address:
University of South Florida
Physics
Physics, Applied Program
4202 E. Fowler Avenue, PHY114
Tampa, FL 33620

PROGRAM INFORMATION

This new program implemented in Fall 2000 emphasizes the interdisciplinary training of applied physicists for the practical, engineering applications of theoretical, fundamental physical concepts. The program encompasses the areas of laser physics, materials physics, computational physics, environmental physics and sensors, biomedical physics and imaging science.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as University plus three letters of recommendation and a statement of purpose.

Program Admission Deadlines
Same as University.

DEGREE PROGRAM REQUIREMENTS

The program requires a total of 90 credit hours distributed as follows:
- Core Courses in theoretical and applied areas 24 hrs
- Lab training 6 hours
- Electives 9 hours
- Directed and Dissertation Research 45-51 hours

An important feature of this program is a course in laboratory measurement and instrumentation and a field-site industrial practicum, which comprise the six hours of lab training.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
# Audioiology

## Master of Science (M.S.)

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<tr>
<td>Audiology</td>
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<tr>
<td><strong>Concentrations:</strong></td>
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<tr>
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<td>Tampa, FL 33620</td>
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*Inactive. Currently, students are not being admitted to this program.*
AUDIOLGY

Doctor of Audiology (Au.D.)

DEGREE INFORMATION

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CONTACT INFORMATION

| Program Director: | Gail S. Donaldson           |
| Other Contact:    | n/a                         |
| Phone:            | 813-974-2006                |
| Fax:              | 813-974-0822                |
| Email:            | gdonalds@cas.usf.edu        |
| Web Address:      | http://www.cas.usf.edu/csd/index.htm |
| Mailing Address:  | University of South Florida |
|                  | Communication Sciences and Disorders |
|                  | Audiology Program            |
|                  | 4202 E. Fowler Avenue, PCD1017 |
|                  | Tampa, FL  33620             |

PROGRAM INFORMATION

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 new standards as mandated by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; the Council on Academic Accreditation of the American Speech-language-Hearing Association.

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus three letters of recommendation, a letter of intent and applicant must also demonstrate competency in communication skills as determined by the chairperson or delegate.

Program Admission Deadlines
Fall Deadline: February 1

DEGREE PROGRAM REQUIREMENTS

General University requirements for graduate work must be fulfilled and a minimum of 128 hours of regularly scheduled academic course work at the graduate level. In addition, students will enroll in sufficient graduate clinical practicum to meet a minimum of 2000 hours of clinical experience to fulfill the requirements of 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 3.0 in all clinical practica, satisfactory passage of a comprehensive clinical oral examination and the National Teacher Examination in the speciality of Audiology, and successful completion of a professional research project. A student with a bachelor’s degree and appropriate prerequisites may enter the four-year post-baccalaureate program. A student with a master’s degree and five years full-time clinical experience, State License in Audiology or the Certificate of Clinical Competence in Audiology (CCC-A) may be admitted into an individualized program of study.

Audiology Science Core (17)
SPA 5506 Perspectives in Audiology (2)
SPA 5303 Auditory Anatomy & Physiology (3)
SPA 6930 Psychoacoustics (3)
SPA 5132 Audiology Instrumentation (3)
SPA 5506 Math & Physics for Speech & Hearing (3)
SPA 6805 Research Procedures (3)

Audiology Practice Core (54)
SPA 5328, SPA 6318, SPA 6345, SPA 6348, SPA 6128, SPA 6305, SPA 6314, SPA 631X, SPA 6324, SPA 6930, SPA 6553, SPA 6354, SPA 6554, SPA 7931

Practical Experience (57)
SPA 5506 Clinical Lab I (4)
SPA 5506 Clinical Lab II (4)
SPA 5506 Clinical Lab III (4)
SPA 6505 Audiological Screening DX I (1)
SPA 6505 Aural Rehab for Audiology (1)
SPA 6505 Cerumen Management (1)
SPA 6505 Clinic I (5)
SPA 6505 Clinic II (5)
SPA 6505 Clinic III (5)
SPA 6505 Clerkship I (3)
SPA 6505 Clerkship II (3)
SPA 6505 Clerkship III (3)
SPA 6505 Externship I (9)

**Audiology Doctoral Project**
SPA 6930 Directed Research (6 minimum)
SPA 7931 Audiology Doctoral Project Seminar (3 minimum)

**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 coursework.

**First Year Examination.**
This examination will be given in the Summer of the first year of the program. The objective examination will consist of questions related to coursework and clinical labs taken in the first year of study. Passing will be considered as an overall 80% or higher grade. A student who receives a score of less than 80% in any one area is strongly encouraged to complete a program of self-study in that area as the material may appear on subsequent examinations. An overall score lower than 80% will require a complete re-examination at a later date, following extensive remediation. This remediation must be designed by the student and submitted to her/his faculty advisor for review and modification by the first week of the fall semester following the examination. The faculty advisor will approve the remediation plan and set a date for its completion. The remediation must be completed in a timely fashion. Only one re-examination will be allowed, scheduled at the convenience of the Audiology faculty.

**Second Year Examination.**
This examination will be given in the Summer of the second year of the program. This examination will require application of knowledge gathered from both classroom and clinical coursework to case management and will be conducted in two parts. Part One will be an objective examination that will consist of questions related to course work and clinic assignments from the second year of study. Consist of questions related to course work and clinical labs taken in the first year of study. Part Two will require application of knowledge gathered from both classroom and clinical coursework to case management and case interpretation. An open-ended examination format will be utilized.

Passing for both Part One and Part Two will be considered as an overall 80% or higher grade. A student who receives a score of less than 80% in any one area is strongly encouraged to complete a program of self-study in that area as the material may appear on subsequent examinations. An overall score lower than 80% will require a complete re-examination at a later date, following extensive remediation. This remediation must be designed by the student and submitted to his/her faculty advisor for review and modification by the first week of the fall semester following the examination. The faculty advisor will approve the remediation plan and set a date for its completion. The remediation must be completed in a timely fashion. Students should be aware that permission to enter Clerkship I or II may be delayed by this remediation.

Only one re-examination will be allowed, scheduled at the convenience of the Audiology faculty. The re-examination may be provided in a format different than that of the initial examination and all material covered by the initial examination as well as remediation material may appear on the re-examination. If a student fails both the initial examination and the re-examination, his or her case will be reviewed by the entire Audiology faculty to determine if he or she will be allowed to continue in the Au.D. program.

**Third Year Examination.**
All students will be required to pass the National Examination in Audiology (NESPA) prior to the completion of their third year of study. Generally, this examination is taken in the Fall of the third year of study, but may be taken at any time during the third year of study. Students must successfully complete this examination prior to beginning their final Externship experience in the fourth year.

**Audiology Doctoral Project**
The major goal of the Audiology Doctoral Project (GDP) is master of the problem-solving process and the resulting improvement in the students’ work/clinical setting. It is expected that the ADP will reflect information gained from the study areas and will be drawn from students’ clinical specialty areas. This project is meant to be a “practical” experience, one that the student will make pertinent to the particular setting and meaningful in the student’s professional development. The problem(s) that are selected for the ADP must relate to the area of professional or clinical specialization as well as work site. Starting in the Fall of the third year, the student must be continuously registered for the ADP Seminar. 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 according to the Graduate School schedule for theses and dissertations.

**COURSES** See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
# AURAL (RE)HABILITATION

## Master of Science (M.S.)

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**Inactive.** Currently, students are not being admitted to this program.
BIOLOGY

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Biology
Concentrations: Conservation Biology, Coastal Marine Biology, Molecular-Cellular Biology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Henry R. Mushinsky
Other Contact: n/a
Phone: 813-974-3250
Fax: 813-974-3263
Email: csmithe2@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/biology/

Mailing Address:
University of South Florida
Biology
Biology Program
4202 E. Fowler Avenue, SCA110
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Biology was the first to offer the Ph.D. degree at the University of South Florida. The department is located in two modern, well-equipped buildings. Most research in cell and molecular, and microbiology is done by faculty housed in the Bio-Science facility, and most of the research in organismal biology and ecology is conducted by faculty housed in the Science Center. In addition, the department has common research facilities in two nearby buildings.

One theme that runs throughout the department is that of cooperation. Within the Department, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology. Many of the Department’s cell and molecular biologists and ecologists are involved in cooperative research with their colleagues in Public Health, Nursing, and Medicine. Likewise, many of the Department’s organismal biologists and ecologists are involved in cooperative research with colleagues in the Departments of Geology, Psychology, Geography, Marine Science, and the Environmental Science and Policy program. Often biology graduate students have faculty members from these other areas of USF as members of their graduate committees.

Because of the many undergraduate courses that require hands-on experimental laboratories, the Department supports many graduate students as Teaching Assistants. The Department values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members.

The departmental graduate director, or an assigned mentor, serves as the student’s advisor until the student makes arrangements for a faculty member to serve as major professor. The selection of a major professor includes acceptance of the student by the faculty member. Applicants are strongly urged to contact faculty conducting research in the student’s area of interest.

For all master’s students, the major professor and at least two additional faculty constitute the student’s supervisory committee, the major professor and at least one of the committee members must be from the Biology Department. For all Ph.D. students the major professor and at least three additional faculty constitute the student’s supervisory committee. The major professor and three members must be from the Department of Biology. Supervisory committees must be established within two semesters after matriculation. Failure to do so will be cause for dismissal.

The Departmental Chairman, the College Dean and the Dean of the Graduate School 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 or dissertation, the student shall enroll for 2 hours of research credit each semester (other than summer semester), until eligible to enroll in thesis or dissertation credits. No student shall be required to enroll for more than 9 graduate hours per semester.

A student must be registered for an appropriate load (in no case fewer than 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, or Dissertation 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 or Dissertation: Doctoral until a Supervisory Committee has been formed. A student who enrolls in courses entitled Thesis: Master’s or Dissertation: Doctoral but does not submit a thesis or dissertation will not be certified for graduation.

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program Admission Requirements
1) Must have 3.0 GPA last 60 hours of B.S. degree

2) Must have 1100 on GRE (Verbal and quantitative) + Biology Area Subject Exam.

3) All international students are required to submit the TOEFL test. Non-native English speaking graduate students must score at least 570 on the TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.

4) Acceptance by a faculty member in the Biology Dept. is MANDATORY. We encourage students to contact faculty via email to indicate an interest in the research being conducted in their laboratory. We will make every effort to pair potential graduate students with appropriate faculty, however, your direct contact with individual faculty is expected.

5) It is expected that candidates for the M.S./Ph.D. degrees will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.

Program Admission Deadlines
U.S. Students:
Fall Deadlines: February 1 and June 1
Spring Deadlines: October 1

International Students:
Fall Deadline: January 2
Spring Deadline: June 1

Application must be completed by February 1 by applicants who wish to be considered for assistantships.

Materials necessary for a complete application are listed below:

The following items should be submitted in the envelope provided to:

Biology Graduate Office
University of South Florida
4202 E. Fowler ave – SCA110
Tampa, FL 33620-5150

1) Completed application form with a non-refundable $30 application fee. Send only checks or money order made payable to the “University of South Florida.” The application and fee are valid for one year. Applications sent without the $30 application fee will not be processed. There are no waivers or deferments granted for this fee. PLACE CHECK IN THE ENVELOPE PROVIDED, SEAL ENVELOPE AND SIGN SEAL.

2) Two official transcripts in a sealed envelope from each post-secondary institution. Transcripts of work completed at USF will be secured by the Office of Admissions. Hence you need only to secure transcripts from other institutions for your application packet.

3) Three letters of recommendation from faculty in sealed envelopes (on their university letterhead) with the envelope seal signed by the recommender. Students must also complete the enclosed Student Recommendation Form and submit it to the recommenders. If recommenders choose, they may send letters directly to the Office of Graduate Admissions.

4) 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 biology faculty members. In your essay please list 2-3 biology faculty members that you would like to have review your file. Acceptance into the biology graduate program requires the identification of specific faculty who are willing to direct your research.

5) Application for teaching assistantship. Failure to return this form will result in you not being considered for a teaching position. Please attach resume to Teaching Assistant Application.

OFFICIAL test scores must be sent to USF directly from the testing agency. The University of South Florida’s 4-Digit Institution Code is: 5828

6) Official GRE scores. This exam must have been taken within the last five years. If you have confirmation from ETS that scores have been sent to USF (USF must be listed), you may include a xerox copy of your confirmation notice in your application packet.
DEGREE PROGRAM REQUIREMENTS

The M.S. degree requires completion of
1. structured coursework
2. a research thesis or a review paper
3. passing a comprehensive examination.

The Master’s Degree Requirements should be completed in two to three years. The Department of Biology requires that all graduate work applied toward the completion of degree requirements be completed within a five year period after matriculation. Master’s students are encouraged to gain teaching experience in at least one undergraduate course in the department. Thesis research should be publishable and students are encouraged to publish their findings. Overall degree requirements for the Master of Science (M.S.) are as follows:

1) Credit hour requirement: a total of 30 semester hour credits beyond the Baccalaureate Degree is required.

2) No minimum requirement for structured course work exists. The graduate student, major professor and student’s graduate committee will establish the specific course requirement for each student.

3) A minimum of six thesis research credit hours is required.

4) Submission of a thesis proposal and approval by the major professor, graduate committee and graduate director.

5) Successful completion of the oral examination. The exam should be taken at the end of the first year, or early in the second year of study. The examination is administered and evaluated by the student’s graduate committee.

6) 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.

7) Submission of an acceptable thesis.

8) Presentation of the thesis seminar (BSC 6935) and successful defense of the thesis.

Non-Thesis - For students enrolled in the non-thesis program, a 30-hour minimum is required at the 5000-6000 level; 26 hours must be in formally structured courses, 16 hours must be at the 6000 level; 15 structured hours must be in Biology. A review paper of a topic approved by the supervisory committee is required.

Comprehensive Examination. A final comprehensive 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. Thesis students must take the examination at least one semester before the thesis is presented. Any graduate work counted toward the requirement for the M.S. degree must be completed within five (5) years after matriculation.

All Master’s Degree students must present a seminar to the Department of Biology 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.

COURSES
See http://www.ugs.usf.edu/sbh/sabs.cfm
BIOLOGY

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Biology
Concentrations: Conservation Biology, Coastal Marine Biology, Molecular-Cellular Biology
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Henry R. Mushinsky
Other Contact: n/a
Phone: 813-974-3250
Fax: 813-974-3263
Email: csmith2@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/biology/

PROGRAM INFORMATION

The Department of Biology was the first to offer the Ph.D. degree at the University of South Florida. The department is located in two modern, well-equipped buildings. Most research in cell and molecular, and microbiology is done by faculty housed in the Bio-Science facility, and most of the research in organismal biology and ecology is conducted by faculty housed in the Science Center. In addition, the department has common research facilities in two nearby buildings.

One theme that runs throughout the department is that of cooperation. Within the Department, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology. Many of the Department’s cell and molecular biologists and ecologists are involved in cooperative research with their colleagues in Public Health, Nursing, and Medicine. Likewise, many of the Department’s organismal biologists and ecologists are involved in cooperative research with colleagues in the Departments of Geology, Psychology, Geography, Marine Science, and the Environmental Science and Policy program. Often biology graduate students have faculty members from these other areas of USF as members of their graduate committees.

Because of the many undergraduate courses that require hands-on experimental laboratories, the Department supports many graduate students as Teaching Assistants. The Department values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members.

The departmental graduate director, or an assigned mentor, serves as the student’s advisor until the student makes arrangements for a faculty member to serve as major professor. The selection of a major professor includes acceptance of the student by the faculty member. Applicants are strongly urged to contact faculty conducting research in the student’s area of interest.

For all master’s students, the major professor and at least two additional faculty constitute the student’s supervisory committee, the major professor and at least one of the committee members must be from the Biology Department. For all Ph.D. students the major professor and at least three additional faculty constitute the student’s supervisory committee. The major professor and three members must be from the Department of Biology. Supervisory committees must be established within two semesters after matriculation. Failure to do so will be cause for dismissal.

The Departmental Chairman, the College Dean and the Dean of the Graduate School 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 or dissertation, the student shall enroll for two (2) hours of research credit each semester (other than summer semester), until eligible to enroll in thesis or dissertation credits. No student shall be required to enroll for more than nine (9) graduate hours per semester.

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, or Dissertation 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 or Dissertation: Doctoral until a Supervisory Committee has been formed. A student who enrolls in courses entitled Thesis: Master’s or Dissertation: Doctoral but does not submit a thesis or dissertation will not be certified for graduation.

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

ADMISSION INFORMATION

Program Admission Requirements
1) Must have 3.0 GPA last 60 hours of B.S. degree
2) Must have 1100 on GRE (Verbal and quantitative) + Biology Area Subject Exam +TOEFL test.
3) All international students are required to submit the TOEFL test. Non-native English speaking graduate students must score at least 570 on the TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.
4) Acceptance by a faculty member in the Biology Dept. is MANDATORY. We encourage students to contact faculty via email to indicate an interest in the research being conducted in their laboratory. We will make every effort to pair potential graduate students with appropriate faculty; however, your direct contact with individual faculty is expected.
5) It is expected that candidates for the M.S./Ph.D. degrees will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.

Program Admission Deadlines
U.S. Students:
Fall Deadlines: February 1 and June 1
Spring Deadlines: October 1

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4202 E. Fowler ave – SCA110
Tampa, FL 33620-5150

1) Completed application form with a non-refundable $30 application fee. Send only checks or money order made payable to the “University of South Florida.” The application and fee are valid for one year. Applications sent without the $30 application fee will not be processed. There are no waivers or deferments granted for this fee. PLACE CHECK IN THE ENVELOPE PROVIDED, SEAL ENVELOPE AND SIGN SEAL.

2) Two official transcripts in a sealed envelope from each post-secondary institution. Transcripts of work completed at USF will be secured by the Office of Admissions. Hence you need only to secure transcripts from other institutions for your application packet.

3) Three letters of recommendation from faculty in sealed envelopes (on their university letterhead) with the envelope seal signed by the recommender. Students must also complete the enclosed Student Recommendation Form and submit it to the recommenders. If recommenders choose, they may send letters directly to the Office of Graduate Admissions.

4) 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 biology faculty members. In your essay please list 2-3 biology faculty members that you would like to have review your file. Acceptance into the biology graduate program requires the identification of specific faculty who are willing to direct your research.

5) Application for teaching assistantship. Failure to return this form will result in you not being considered for a teaching position. Please attach resume to Teaching Assistant Application.

OFFICIAL test scores must be sent to USF directly from the testing agency. The University of South Florida’s 4-Digit Institution Code is: 5828

6) Official GRE scores. This exam must have been taken within the last five years. If you have confirmation from ETS that scores have been sent to USF (USF must be listed), you may include a xerox copy of your confirmation notice in your application packet.
DEGREE PROGRAM REQUIREMENTS
The Ph.D. degree requires completion of:
1. structured coursework
2. tools of research
3. qualifying exam and Admission to Candidacy
4. Oral Defense and Dissertation

Coursework
Individuals who receive the M.S. degree from the Department of Biology at USF may waive ten (10) credits, with the approval of the supervisory committee. Six (6) hours of graduate work done in a master’s program at another institution may be waived from the doctoral program, with approval of the supervisory committee. Twelve (12) hours of graduate work completed while a non-degree seeking student at this institution may be transferred to the doctoral program, with approval of the supervisory committee. A total of 90 credits beyond the baccalaureate must be earned; this includes any graduate credit earned prior to admission to the doctoral program. A minimum of three years of graduate work beyond the Baccalaureate Degree is required.

At least one academic year of residence must be on the campus. A year of residence is enrollment in a minimum of nine (9) semester credits for two consecutive semesters. The direction and immediate supervision of graduate work for doctoral students resides with the major professor and student’s graduate committee. Graduate students are not admitted unless a major professor has agreed to serve as the student’s supervisor. The University imposes limitations on the time period between admission to candidacy and successful completion of degree requirements.

EDITOR’S NOTE: University policy for time limits may be viewed in the Degree Requirements Section of this catalog.

The Department of Biology requires that all graduate work applied toward the completion of degree requirements be completed within a seven year period after matriculation. Doctoral students are encouraged to gain teaching experience in at least two undergraduate courses in the department. Overall degree requirements for the Doctor of Philosophy are as follows:

1. Credit hour requirement: A total of 90 semester hour credits beyond the Baccalaureate degree is required.
2. No minimum requirement for structured coursework exists. The graduate student, major professor and graduate committee will establish the specific course requirement for each graduate student.
3. A minimum of twenty-four (24) dissertation research credit hours is required.

4. Submission of a doctoral proposal and approval by major professor, graduate committee, and graduate director
5. Successful completion of the preliminary doctoral examination. The exam consists of a written and oral portion, and is written and graded by the graduate committee
6. Seminar requirement: two presentations, excluding the doctoral seminar and defense. Students should present posters or oral presentations based on their dissertation research at national/regional professional meetings. The graduate committee must approve the presentation.
7. 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 graduate committee must approve the paper prior to submission.
8. Submission of an acceptable dissertation
9. Presentation of the doctoral seminar (BSC 7936) and successful defense of the dissertation.

Admission to Candidacy
The doctoral student is eligible for admission to candidacy after completing structured course requirements and passing the qualifying examination, upon recommendation of the supervisory committee and approval of the Dean of the College and the Dean of the Graduate School. 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 the six credit hour 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 16. Students not admitted to candidacy are not eligible to enroll in BSC 7980.

Additional Requirements
Any graduate work counted toward fulfilling the requirements for the Ph.D. degree must be completed within seven (7) years after matriculation. A public seminar presenting the dissertation is required. A final oral examination administered and evaluated by the supervisory committee emphasizes the dissertation and the student’s general field of research is also required. A doctoral student must enroll in BSC 7936 the semester that they are presenting their Ph.D. dissertation.
Doctors Seminar and Defense.
All doctoral students must present a seminar to the Department of Biology and must be enrolled in BSC 7936, during the final semester. 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.

Courses
See http://www.ugs.usf.edu/sab/sabs.cfm
CHEMISTRY (NON-THESIS OPTION)

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
non-thesis option

Degree Program: Chemistry

Concentrations: Analytical Chemistry
Biochemistry
Computational Chemistry
Environmental Chemistry
Inorganic Chemistry
Organic Chemistry
Physical Chemistry
Polymer Chemistry

Program Status: Active

Program Level: Masters

CONTACT INFORMATION

Program Director: Brian Space
Other Contact: n/a
Phone: 813-974-2144
Fax: 813-974-3203
Email: space@cas.usf.edu
Web Address: http://www.cas.usf.edu/chemistry/new/

Mailing Address:
University of South Florida
Department of Chemistry
Chemistry (non-thesis option) Program
4202 E. Fowler Avenue, SCA400
Tampa, FL 33620

PROGRAM INFORMATION

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

Major Research Areas:
In addition to the five (5) traditional areas, research opportunities also are available in such interdisciplinary and specialized areas as Bio-organic and Bio-inorganic Chemistry, Environmental Chemistry, Nuclear Magnetic Resonance Spectroscopy, Computer Modeling, Polymers, Photochemistry, Marine Chemistry, Medicinal Chemistry, Electrochemistry, Nucleic Acid Chemistry, and Enzymology.

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 19 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 and electives 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.

ADMISSION INFORMATION

Program Admission Requirements
Applicants must have earned a B or BS degree in Chemistry.* In addition, applicants must have
1. a combined score of 1000 on the verbal and quantitative parts of the GRE
2. a minimum of a 3.0 grade point average in the last two years of chemistry coursework
3. letters of recommendation from at least three or more people who know the student’s academic background
4. and for applicants whose native language is not English, a minimum of 550 on the TOEFL exam and for such applicants a minimum of 50 on the TSE if also applying for an assistantship.

*Applicants with other degrees will be considered on a case by case basis.

Program Admission Deadlines
Fall Deadline: May 1
Spring Deadline: October 1
Summer Deadline: January 1

International students follow USF International Admissions deadlines. Domestic students rolling admission.
DEGREE PROGRAM REQUIREMENTS

General Program Requirements
Graduate students must maintain an overall grade point average (GPA) of 3.0 (B) in all courses. Any graduate student who falls below a 3.0 GPA at the end of any given semester will be placed on academic probation and has the next two semesters (excluding summers) to remedy the situation before being dismissed from the program. No grade below “C” will be accepted toward a graduate degree, but will be used in the computation of the overall GPA.

Enforcement of Minimum Standards
The Graduate Council shall be responsible for ensuring that all graduate students meet the minimum standards as set down in the Graduate Student Handbook. The Graduate Coordinator will periodically review the standing of each student with regard to grade point average (GPA), academic progress, and (in the case of teaching assistants) teaching performance and notify the Graduate Council as necessary. Should disciplinary action appear in order, the student’s major professor will be consulted (in order to obtain as many relevant facts as possible) before such action is taken.

Probation
Students who fail to meet the minimum GPA (3.0 for all graduate courses) shall be placed on probation. The student’s GPA must meet the minimum of 3.0 by the end of the semester in which probation was initiated or termination from the graduate program will result.

Appeals
In actions based on departmental requirements, petitions and appeals shall be directed to the Chemistry Graduate Council through the student’s major professor. (In case of a student who has not yet selected a major professor, the appeal may be carried out through the Graduate Coordinator or through some other chemistry faculty member selected by the student.) Unsuccessful appeals to the Chemistry Graduate Council may be further carried to the chemistry faculty as a whole, and from there to the Dean of the College and then to the University Graduate Council if necessary.

Minimum Grades in Courses
Although all grades in graduate level courses will be used in computing the student’s GPA, no grade below “C” may be counted toward fulfillment of the approved course of study. Consequently, any such course in which a student receives a grade below “C” must be repeated, or have the requirement waived by the Supervisory Committee. A student who receives three grades lower than a “B” in structured courses required by his supervisory committee to meet the structured course requirement will be dropped from the program. A student who receives a grade of “U” while a chemistry graduate student will be placed on automatic probation. A second “U” grade is grounds for termination from the Program, and the Chemistry Graduate Council will automatically review the student’s status. Students on probation are not excluded from having a teaching assistantships during the probationary semester.

Seminars
All chemistry graduate students must satisfy the following minimum requirements for CHM 6935:

* enrollment every semester of the regular academic year during his/her career as a graduate student, or

* enrollment in seven (7) credit hours for the Ph.D.; four (4) credit hours for the Master’s degree. A maximum of two unexcused absences will be permitted each semester, whichever is less. Under exceptional circumstances, students may petition for a waiver on a semester-by-semester basis if employment or other obligations conflict with the requirement.

Master’s Degree General Requirements
Students must meet all degree requirements as specified by the Graduate School. Study for the M.A and the M.S. should take between two and three calendar years beyond the baccalaureate degree to complete. Specific requirements include: a minimum of thirty (30) credit hours beyond the baccalaureate degree; sixteen (16) hours must be at the 6000 level.

M.A. in Chemistry (Non-Thesis Option)
Program Requirements
a) 26 hours must be in formally structured courses approved by the student’s committee.

b) Preparation of a review paper on a topic approved by the supervisory committee. The final paper must be approved by the supervisory committee.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
CHEMISTRY

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Chemistry
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Brian Space
Phone: 813-974-2144
Fax: 813-974-3203
Email: space@cas.usf.edu
Web Address: http://www.cas.usf.edu/chemistry/new/

Mailing Address:
University of South Florida
Department of Chemistry
Chemistry Program
4202 E. Fowler Avenue, SCA400
Tampa, FL 33620

PROGRAM INFORMATION

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 19 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 and electives 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.

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

Major Research Areas:
In addition to the five (5) traditional areas, research opportunities also are available in such interdisciplinary and specialized areas as Bio-organic and Bio-inorganic Chemistry, Environmental Chemistry, Nuclear Magnetic Resonance Spectroscopy, Computer Modeling, Polymers, Photochemistry, Marine Chemistry, Medicinal Chemistry, Electrochemistry, Nucleic Acid Chemistry, Enzymology, Materials Chemistry and Chemical Education.

ADMISSION INFORMATION

Program Admission Requirements
Applicants must have earned a B.A. or BS degree in Chemistry.* In addition, applicants must have

1. official transcripts
2. a combined score of 1000 on the verbal and quantitative parts of the GRE
3. a minimum of a 3.0 grade point average in the last two years of chemistry coursework
4. letters of recommendation from at least three or more people who know the student’s academic background
5. and for applicants whose native language is not English, a minimum of 550 on the TOEFL exam and for such applicants a minimum of 50 on the TSE if also applying for an assistantship.

*Applicants with other degrees will be considered on a case by case basis.

Program Admission Deadlines
Fall Deadline: May 1
Spring Deadline: October 1
Summer Deadline: January 1

International students follow USF International Admissions deadlines. Domestic students rolling admission.
DEGREE PROGRAM REQUIREMENTS

General Program Requirements
Graduate students must maintain an overall grade point average (GPA) of 3.0 (B) in all courses. Any graduate student who falls below a 3.0 GPA at the end of any given semester will be placed on academic probation and has the next two semesters (excluding summers) to remedy the situation before being dismissed from the program. No grade below “C” will be accepted toward a graduate degree, but will be used in the computation of the overall GPA.

Enforcement of Minimum Standards
The Graduate Council shall be responsible for ensuring that all graduate students meet the minimum standards as set down in the Graduate Student Handbook. The Graduate Coordinator will periodically review the standing of each student with regard to grade point average (GPA), academic progress, and (in the case of teaching assistant) teaching performance and notify the Graduate Council as necessary. Should disciplinary action appear in order, the student’s major professor will be consulted (in order to obtain as many relevant facts as possible) before such action is taken.

Probation
Students who fail to meet the minimum GPA (3.0 for all graduate courses) shall be placed on probation. The student’s GPA must meet the minimum of 3.0 by the end of the semester in which probation was initiated or termination from the graduate program will result.

Appeals
In actions based on departmental requirements, petitions and appeals shall be directed to the Chemistry Graduate Council through the student’s major professor. (In case of a student who has not yet selected a major professor, the appeal may be carried out through the Graduate Coordinator or through some other chemistry faculty member selected by the student.) Unsuccessful appeals to the Chemistry Graduate Council may be further carried to the chemistry faculty as a whole, and from there to the Dean of the College and then to the University Graduate Council if necessary.

Minimum Grades in Courses
Although all grades in graduate level courses will be used in computing the student’s GPA, no grade below “C” may be counted toward fulfillment of the approved course of study. Consequently, any such course in which a student receives a grade below “C” must be repeated, or have the requirement waived by the Supervisory Committee. A student who receives three grades lower than a “B” in structured courses required by his supervisory committee to meet the structured course requirement will be dropped from the program. A student who receives a grade of “U” while a chemistry graduate student will be placed on automatic probation. A second “U” grade is grounds for termination from the Program, and the Chemistry Graduate Council will automatically review the student’s status.

Students on probation are not excluded from having a teaching assistantship during the probationary semester.

Seminars
All chemistry graduate students must satisfy the following minimum requirements for CHM 6935: enrollment every semester of the regular academic year during his/her career as a graduate student, or enrollment in seven (7) credit hours for the Ph.D.; four (4) credit hours for the Master’s degree. A maximum of two unexcused absences will be permitted each semester, whichever is less.

Under exceptional circumstances, students may petition for a waiver on a semester-by-semester basis if employment or other obligations conflict with the requirement.

Master’s Degree General Requirements
Students must meet all degree requirements as specified by the Graduate School. Study for the M.A and the M.S. should take between two and three calendar years beyond the baccalaureate degree to complete. Specific requirements include a minimum of thirty (30) credit hours beyond the baccalaureate degree; sixteen (16) hours must be at the 6000 level.

Program Requirements
a) 20 hours of formally structured courses approved by the student’s committee
b) a research project resulting in a written thesis
c) an oral thesis defense, which will serve as the final comprehensive examination required by the Graduate School

A graduate student working on a master’s degree in a program that requires a thesis must register in course CHM 6973 or CHM 6971 when engaged in research, data collection, or writing activities relevant to the master’s thesis. The number of credits in these courses must be appropriate to the demands made on faculty, staff, and university facilities. Editor’s note: for information on the University’s enrollment policy relevant to a thesis, refer to the enrollment section of the Academic Policies in this catalog.

Final Thesis Defense
Each student should consult with their supervisory committee for deadlines in submitting the thesis prior to the defense. Thesis or dissertation defense are not normally scheduled during final exam week or during the weeks between regularly scheduled sessions. The thesis defense must be scheduled through the Chemistry Graduate Office at least two weeks in advance. The Chemistry Graduate Office will then announce the defense to the entire Chemistry Department. The candidate normally defends their thesis in the fourth or fifth year. EDITOR’S NOTE: these deadlines are in addition to those imposed by the Graduate School. The Graduate School sets deadlines pertaining to thesis/dissertations each semester.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm
CHEMISTRY

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Chemistry
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Brian Space
Other Contact: n/a
Phone: 813-974-2144
Fax: 813-974-3203
Email: space@cas.usf.edu
Web Address: http://www.cas.usf.edu/chemistry/new/

PROGRAM INFORMATION

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 19 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 and electives 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.

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

Major Research Areas:
In addition to the 5 traditional areas, research opportunities also are available in such interdisciplinary and specialized areas as Bio-organic and Bio-inorganic Chemistry, Environmental Chemistry, Nuclear Magnetic Resonance Spectroscopy, Computer Modeling, Polymers, Photochemistry, Marine Chemistry, Medicinal Chemistry, Electrochemistry, Nucleic Acid Chemistry, and Enzymology.

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 19 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 and electives 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.

ADMISSION INFORMATION

Program Admission Requirements
Applicants must have earned a B.A. or BS degree in Chemistry. Applicants with other degrees will be considered on a case by case basis. In addition, applicants must have

1. official transcripts
2. a combined score of 1000 on the verbal and quantitative parts of the GRE
3. a minimum of a 3.0 grade point average in the last two years of chemistry coursework
4. letters of recommendation from at least three or more people who know the student’s academic background
5. and for applicants whose native language is not English, a minimum of 550 on the TOEFL exam and for such applicants a minimum of 50 on the TSE if also applying for an assistantship.
Program Admission Deadlines
Fall Deadline: May 1
Spring Deadline: October 1
Summer Deadline: January 1

International students follow USF International Admissions deadlines. Domestic students rolling admission.

DEGREE PROGRAM REQUIREMENTS

Entering students will have a Promotion to Candidacy Committee established upon entering the Ph.D. Program. The Committee advises students as to what courses they need to take in their first semester. There are no set course requirements, but the decision of the Committee is binding. Students will normally be expected to take the first semester of the first year covering “Tools of Research,” including literature search and analysis, proposal writing, oral presentation skills, and laboratory instrumental techniques. The second semester of the course may be required by a student’s promotion to Candidacy committee. Advanced courses in other subject areas may be assigned by the Committee, where appropriate. Final coursework decisions are made by the candidate’s research advisor.

Advisor Selection
Students need to choose a pre-Ph.D. candidate research adviser by the beginning of the second semester to begin pre-candidate research in that laboratory (See below). The student will then proceed to initiate a research project by the beginning of the second semester and through the first summer of study. Selection of a research advisor is one of the most important decisions a student will make during the graduate career. In order to avoid hasty or poorly founded decisions each student must discuss potential research projects with at least three members of the chemistry faculty. Appropriate forms can be obtained from the Chemistry Graduate Office and should be completed and returned no later than the end of the second semester (excluding summer semester) after entering the program.

Promotion to Candidacy
At the conclusion of the first year (before the start of the third semester), a written research document outlining progress to date and future plans is submitted to and approved by the Promotion to candidacy Committee. This proposal is subsequently defended in front of the committee. A successful defense results in Promotion to Ph.D. Candidacy, contingent upon the student being formally accepted into a research group. The committee must vote three quarters in favor of the candidate (for a four person committee) or two thirds in favor (for a three person committee) for a pass. A vote of two or four members (or one of three) in favor results in a conditional pass, and the committee must set conditions to be met to promote the student within 30 days of the first meeting. At the discretion of the committee, the student not promoted to candidacy may be given a pass at a JM.A. level of competency and proceed to obtain a terminal research master’s degree or be terminated from the program. Appropriate forms to document promotion to candidacy must be completed and forwarded to the Graduate School. The forms may be obtained from the Chemistry Graduate Office.

Dissertation Committee
Upon promotion the candidate must formally choose and declare a research adviser and a dissertation committee must be established initially with at least three members. An additional committee member from outside the department or university must be added before the final defense. The research advisor chairs the committee.

Original Research Proposal
An original research proposal must be written and defended by the end of the first semester of the third year. At the discretion of the research adviser, the student’s original research proposal may or may not be related to the student’s current or future research. The student must be informed of the research adviser’s preference in advance of seeking approval for the thesis topic. The dissertation committee formally approves the proposal and its defense. The candidate should meet with the dissertation committee members (individually or as a group) to discuss the proposal topic. The original research proposal should follow the format of a major federal granting agency appropriate to the nature of the proposed research. The format of the proposal, in conjunction with the topic, should be approved in advance by the dissertation committee. The written proposal must be given to the dissertation committee members two weeks in advance of the scheduled defense. After the defense, the committee must vote three quarters in favor of the candidate (for a four person committee) or two thirds in favor (for a three person committee) for a pass. A vote of two of four members (or one of three) in favor results in a conditional pass, and the committee must set conditions to be met to pass the candidate within 30 days of the first meeting. Students not passing will normally be terminated from the Ph.D. program.

Research Data Presentation and Dissertation
By the end of the fourth year, a research data presentation must be made to dissertation committee and the committee formally advises the candidate on research milestones that need to be met before permission to “write up” the dissertation is granted. The permission to “write up” the dissertation can be given at any subsequent time. A peer-reviewed publication based upon the dissertation research is required to obtain the degree of Ph.D. Note: Extenuating circumstances will be reviewed on a cases-by-case basis.

Final Dissertation Defense
Each student should consult with their supervisory committee for deadlines in submitting the dissertation prior to the defense. Thesis or dissertation defense are not normally scheduled during final exam week or during the
weeks between regularly scheduled sessions. The dissertation defense must be scheduled through the Chemistry Graduate Office at least two weeks in advance. The Chemistry Graduate Office will then announce the defense to the entire Chemistry Department. The candidate normally defends their dissertation in the fourth or fifth year.

*NOTE: these deadlines are in addition to those imposed by the Graduate School. The Graduate School sets deadlines pertaining to thesis/dissertations each semester.*

Candidates may be offered a departmental TA position in year five given satisfactory progress in research as judged by the dissertation committee and approval of the Department Chair, TA’s are not normally awarded beyond year 5. RA’s are only permitted beyond year six in exceptional cases with the written approval of the department chair. It is important to note that the Graduate School will not award tuition waivers for credit hours beyond 120 for students entering with a baccalaureate degree and 90 for students entering with a master’s degree.

**Supervisory Committees**

The M.S. and M.A. supervisory committee must consist of at least three members including the major professor, and two other chemistry faculty members, at least one of whom is outside the student’s major area (analytical, biochemistry, etc.) According to University Regulations, the Ph.D. supervisory committee must consist of at least four (4) members, including the student’s research director. At least two (2) of the members must be from an area related to the student’s research.

**COURSES**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
## Classics: Latin/Greek

Co-Op with University of Florida  
Master of Arts (M.A.)

### Degree Information

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Master of Arts (M.A.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree Program:</td>
<td>Classics</td>
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<td>Co-Op Program with U.F.</td>
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<tr>
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### Contact Information

| Program Director: | John Campbell |
| Other Contact:    | n/a           |
| Phone:            | 813-974-2547  |
| Fax:              | n/a           |
| Email:            | n/a           |
| Web Address:      | [http://www.cas.usf.edu/classics/contact.html](http://www.cas.usf.edu/classics/contact.html) |

### Program Information

Joint Co-op program with University of Florida  

**Accreditation:** Contact Program for information.

### Admission Information

Admission through the University of Florida

### Degree Program Requirements

Check with Program for information.

### Courses

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
COMMUNICATION

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Communication
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Gilbert Rodman
Other Contact: n/a
Phone: 813-974-2145
Fax: 813-974-6817
Email: grodman@chuma.cas.usf.edu
Web Address: http://www.cas.usf.edu/communication/index.html
Mailing Address:
University of South Florida
Department of Communication
Communication Program
4202 E. Fowler Avenue, CIS1040
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Communication offers a broad and integrated approach to communication studies that embraces the traditions of the humanities, the convergence of rhetorical and communication theory, and the relations among aesthetic, humanistic, and scientific approaches to inquiry. Students are encouraged to examine the pragmatics of rhetorical and communication theory in such settings as business and industry, government, education, medicine and health care, media, the arts, and the family. The department offers course work leading to the Master of Arts degree and the Doctor of Philosophy.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as university requirements plus two letters of recommendation; a writing sample, and a statement of interest.

Program Admission Deadlines
Fall Deadline: April 1
Spring Deadline: November 1

DEGREE PROGRAM REQUIREMENTS

Core Requirements (3 hours)
COM 6001 (3)
This course must be taken the first time it is offered after the student is admitted to the graduate program.

Thesis Program (36 hours) - In addition to the three (3) hours of core requirements, each student must also take COM 7325 and complete 24 hours of elective course work, three (3) hours of which may consist of a course or courses from other departments within this or other universities, and must have advisor approval. Each student must complete at least six (6) hours of thesis credit (SPC 6971) and submit an approved thesis.

Non-Thesis Program (36 hours) - In addition to the three (3) hours of core requirements, 33 hours of elective course work are required, nine (9) of which may be taken as a cognate area of study pending advisor approval and an approved plan of study.

Comprehensive Examinations - All students must pass both written and oral comprehensive examinations.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm

109
COMMUNICATION

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Doctor of Philosophy (Ph.D.)</th>
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<td>Degree Program:</td>
<td>Communication</td>
</tr>
<tr>
<td>Concentrations:</td>
<td>n/a</td>
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<td>Program Status:</td>
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<td>Doctoral</td>
</tr>
</tbody>
</table>

CONTACT INFORMATION

| Program Director:    | Gilbert Rodman               |
| Other Contact:       | n/a                          |
| Phone:               | 813-974-2145                 |
| Fax:                 | 813-974-6817                 |
| Email:               | grodman@chuma.cas.usf.edu    |
| Web Address:         | http://www.cas.usf.edu/communication/index.html |

Mailing Address:
University of South Florida
Department of Communication
Communication Program
4202 E. Fowler Avenue, CIS1040
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Communication offers a broad and integrated approach to communication studies that embraces the traditions of the humanities, the convergence of rhetorical and communication theory, and the relations among aesthetic, humanistic, and scientific approaches to inquiry. Students are encouraged to examine the pragmatics of rhetorical and communication theory in such settings as business and industry, government, education, medicine and health care, media, the arts, and the family. The department offers course work leading to the Master of Arts degree and the Doctor of Philosophy.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as university requirements plus two letters of recommendation; a writing sample, and a statement of interest.

Program Admission Deadlines
Fall Deadline: December 15
Fall admissions only.

DEGREE PROGRAM REQUIREMENTS

Core Requirements (6 hours)
COM 6001 (3) COM 7325 (3)

In addition to the six (6) hours of core requirements, students are required to take a minimum of 39 hours of coursework beyond the M.A. degree (not counting credits for dissertation research). Completion of the Ph.D. program in Communication normally requires a minimum of three years with at least one year in continuous full-time residence. To qualify for graduation from the Ph.D. program in Communication, a student must complete the following:

1) Establish a supervisory faculty committee approved by the Director of Graduate Studies and the Dean of the Graduate School.

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 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 and;
   c) 6 hours of coursework in an area of study outside the department.

3) Pass a written qualifying examination covering the student's area of specialization and methodological competence by the end of coursework. This examination will be prepared and evaluated by the student's supervisory committee.

4) Complete and defend a dissertation approved by the student's dissertation committee that must include at least one member of the graduate faculty outside the Department.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm
COMMUNICATION SCIENCES AND DISORDERS

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Communication Sciences and Disorders
Concentrations: Hearing Sciences, Neurocommunicative Sciences, Speech-Language Sciences
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Elaine Silliman
Phone: 813-974-2006
Fax: 813-974-0822
Email: silliman@cas.usf.edu
Web Address: http://www.cas.usf.edu/csd/index.htm

Mailing Address:
University of South Florida
Communication Sciences and Disorders
Ph.D. Program
4202 E. Fowler Avenue, PCD1017
Tampa, FL 33620

PROGRAM INFORMATION

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 in quantitative and qualitative methodologies, ethics, and instrumentation. The program of study is tailored to meet individual interest areas. The overall aim of the doctoral program is to produce graduates who excel in meeting the rigorous demands of an academic/research career.

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

Major Research Areas:
Speech-Language Sciences: Anatomy and physiology, speech perception and production processes, speech perception by normal hearing listeners and listeners with hearing loss, non-native speech, prosody, oral language and discourse 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 I: Aural rehabilitation, psychoacoustics, aging, temporal processing, speech perception by impaired listeners, auditory evoked potentials, and otoacoustic emissions; Neurocommunicative Sciences: aphasia, apraxia, cognitive/linguistic processing in normal aging and adults with neurological disorders, and dysarthria.

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus three letters of recommendation, a letter of intent, and GRE must be within the last 5 years.

Program Admission Deadlines
Fall Deadline: December 1
Only admit one time per academic year.

DEGREE PROGRAM REQUIREMENTS

Students complete required and elective coursework in the following areas:

1. research and tools of research 15 credits min.
2. core content 12 credits min.
3. concentration/specialized study 12 credits min.
4. cognate area 6 credits min.
5. doctoral seminar 4 credits min.*
6. dissertation 12-24 credits**

In certain cases, with approval of the Major Advisor and Program director, previously completed graduate level coursework may be applied towards requirements in the Core content or Specialized Study areas.

(NOTE: In the 2003-2004 Catalogue, doctoral seminar was listed as 2 credits, a typographical error. *In the 2003-2004 Catalogue, 6) dissertation 12-24 credits, was misaligned)
Completion of the Ph.D. in Communication Sciences and Disorders normally requires a minimum of three to four years of full-time study. In addition to specific degree requirements, a student must complete the following to qualify for graduation:

1. Satisfactory completion of two research rotations with one rotation designed for laboratory experience and, the other, a pre-dissertation project.

2. With the supervision of a qualifying committee, pass a written qualifying examination that evaluates the student’s speciality knowledge and methodological competence. At the discretion of the qualifying committee an oral examination may follow the written examination.

3. Establish a doctoral committee prior to admission into doctoral candidacy.

4. Prepare and defend a dissertation proposal.

5. Following completion of the dissertation research, successfully defend the work before the dissertation committee.

Departmental policy specifies that any student earning a C+ or less in two courses will be recommended for dismissal from the Ph.D. program.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
CRIMINOLOGY

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Criminology
Concentrations:
- Criminological Theory
- Delinquency
- Substance Use/Abuse
- Violence
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Tom Mieczkowski
Other Contact: n/a
Phone: 813-974-8281
Fax: 813-974-2803
Email: mieczkowski@cas.usf.edu
Web Address: http://www.cas.usf.edu/criminology

Mailing Address:
University of South Florida
Department of Criminology
Criminology Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The M.A. in Criminology is a two-year program 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.

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program Admission Requirements
Same as university except that the students are required to have both a 3.0 upper division GPA and 1000 on the GRE plus a candidates statement of purpose detailing:
- reasons for seeking admission for graduate degree in criminology
- future career plans and
- research interests.

In addition, a writing sample providing evidence of the candidates scholarly abilities and three letters of reference speaking to the applicants academic capabilities.

Program Admission Deadlines
Fall Deadline: March 30
Spring Deadline: September 30

DEGREE PROGRAM REQUIREMENTS

All course work counted toward the degree must have the prior approval of the Graduate Program Director of the Department of Criminology. Such work may include up to six (6) hours outside the department.

Thesis
33 hours of CCJ course work, which must include:
CCJ 6605 (4) CCJ 6705 (4)
CCJ 6706 (4) CCJ 6707 (4) CCJ 6050 (1)** CCJ 6971 (6)
Electives (9)

The thesis will consist of research which makes an original contribution to the scholarly literature and which may be of either a quantitative or qualitative nature. An oral defense of the thesis is required after the final draft of the thesis has been accepted by the candidate's supervisory committee.

Non-Thesis: Comprehensive Examination
33 hours of CCJ course work, which must include:
CCJ 6605 (4) CCJ 6705 (4)
CCJ 6706 (4) CCJ 6707 (4) CCJ 6050 (1)** CCJ 6974 (3)
CCJ 6905 (3) Elective (12)
** Should be taken during the first semester of the program.

The Non-Thesis Comprehensive Examination Option is intended primarily for students who do not intend to continue their graduate education beyond the M.A. degree. In the Comprehensive Exam option, students will learn to assess the practical applications of theory and research to policy and program development. As they complete their graduate studies, students will also demonstrate their understanding of the research process and its implications for criminal justice through a comprehensive examination.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm
CRIMINOLOGY

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Criminology
Concentrations: Criminological Theory, Delinquency, Substance Use/Abuse, Violence
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Tom Mieczkowski
Phone: 813-974-8281
Fax: 813-974-2803
Email: mieczkow@cas.usf.edu
Web Address: http://www.cas.usf.edu/criminology/

PROGRAM INFORMATION

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.

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

ADMISSION INFORMATION

Program Admission Requirements
1) A bachelor’s degree from a regionally accredited institution and a GPA of at least 3.0; or a master’s degree from a regionally accredited institution and a GPA of at least 3.4 or better (on a 4.0 scale) during their graduate study.
2) A score of 1000 or higher on the Graduate Record Exam (GRE) within the preceding five (5) years.
3) Three (3) letters of recommendation speaking to the applicant’s academic capabilities.
4) A candidate’s statement detailing
   a) reasons for seeking admission for a Ph.D. degree in criminology
   b) future career plans and
   c) research interests
5) A writing sample providing evidence of the candidate’s scholarly abilities. For persons with an M.A./M.S., evidence of completed master’s thesis or Master’s area paper, as well as a sample chapter from the thesis/area paper.

Program Admission Deadlines
Fall Deadline: February 15

Students are admitted to the Ph.D. program once each year and begin their course of study with the start of the regular academic year each August (Fall semester).

DEGREE PROGRAM REQUIREMENTS

A total of 90 hours beyond the B.A./B.S., of which a minimum of 57* hours must be completed at USF. The 90 hours required for the Ph.D. are as follows:
1. 21 core hours CCJ 6050 (2) CCJ 6605 (4) CCJ 6705(4), CCJ 6706(4) CCJ 6707 (4), and CCJ 6708 (3);
2. 36 elective hours, 9 of which must be in an area outside the department;
3. 6 hours meeting the Research Tool Requirement (see below);
4. 24 dissertation hours.

(*Contact the Program Director to determine the minimum number of hours needed in your individual case.)

In addition to successfully completing these requirements, students are required to pass two doctoral comprehensive examinations, complete residency requirements (nine [9] hours each in the fall and spring, and three [3] hours in the summer of the first year), and write and defend a dissertation prospectus and dissertation.
Tool Requirement
In order to satisfy the department's research tool requirement, students in criminology must complete either a foreign language competency examination, or two of the following three courses (CCJ 6708, CCJ 6709, CCJ 6716).

Comprehensive Examinations
Students take two comprehensive examinations:

(1) general comprehensive, and
(2) specialty comprehensive.

The general comprehensive is an in-class examination that assesses the student's ability to employ theory, research methods, and statistics of research to address two problems selected by the faculty. The specialty comprehensive is constructed by the student's doctoral committee, and may include in-class, written take-home, written research, or oral examination formats.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
# ENGLISH

## Master of Arts (M.A.)

### DEGREE INFORMATION

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<th>Degree Offered:</th>
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<td>Degree Program:</td>
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<td>Concentrations:</td>
<td>Literature</td>
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### CONTACT INFORMATION

<table>
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<tr>
<th>Program Director:</th>
<th>John Hatcher</th>
</tr>
</thead>
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<tr>
<td>Other Contact:</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-2421</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-2270</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:jhatcher@cas.usf.edu">jhatcher@cas.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://www.cas.usf.edu/english/">http://www.cas.usf.edu/english/</a></td>
</tr>
</tbody>
</table>

### Mailing Address:

University of South Florida  
Department of English  
4202 E. Fowler Avenue, CPR 107  
Tampa, FL  33620-5550

### PROGRAM INFORMATION

The M.A. in English with a concentration in Literature is designed primarily to train advanced students of literature. The program requires study of both literature and composition. The M.A. in English with a concentration in Rhetoric and Composition is designed primarily to train advanced students of literature and Rhetoric. The M.A. in English with a concentration in Creative Writing is designed primarily to train advanced students of fiction and poetry writing.

#### Accreditation:

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

### ADMISSION INFORMATION

#### Program Admission Requirements

**Literature:**

1. BA in English,
2. GRE 600V, total 1000;
3. undergraduate major GPA 3.5, 3.3 last 2 years;
4. 3 letters of recommendation;
5. personal statement

**Rhetoric and Composition:**

1. BA in English,
2. GRE 600V, total 1000;
3. undergraduate major GPA 3.5, 3.3 last 2 years;
4. 3 letters of recommendation;
5. personal statement

**Creative Writing:**

1. BA in English;
2. GRE 600V, 1000 total;
3. 3.5 major GPA 3.3 last two years;
4. 3 letters of recommendation;
5. personal statement

### Program Admission Deadlines

**Literature:**

Fall Deadline: February 1  
Spring Deadline: October 1

**Rhetoric and Composition:**

Fall Deadline: February 1  
Spring Deadline: October 1

**Creative Writing:**

Fall Deadline: January 15  
Fall admissions only

### DEGREE PROGRAM REQUIREMENTS

**Program of Study 33 Credit Hours**

ENG 6009 (3) (this should be taken early in the sequence)  
LAE 6375 (3)

**Concentration Courses**

**Literature**

ENG 6018 (3)  
ENG 6019 – Studies in Criticism & Theory II (3)

Two of the following: ENL 6206 (3) ENL 6216 (3) ENL 6226 (3) ENL 6228 (3) ENL 6236 (3) AML 6017 (3)
Two of the following: ENL 6246 (3) ENL 6256 (3) ENL 6276 (3) AML 6018 (3)AML 6027 (3) LIT 6096 (3)

**Thesis** - ENG 6971 or
Students may opt to fulfill the non-thesis option in which they submit two critical papers. For detailed guidelines, contact the department.

**Rhetoric and Composition**
ENC 6336 (3)
ENC 6700 (3) ENC 6720 (3)
Two courses (6) in American, British, or World Literature
Two electives (6) in Literature or Rhetoric and Composition

**Thesis** - ENG 6971 (3) on a Rhetoric & Composition subject plus an oral defense or an M.A. exam tailored to the student’s particular research specialization. A three-member examination committee chosen by the student will write questions and evaluate answers for the M.A. exam. The exam will take place over three days, and each day will follow the same format: three one-hour questions from which the student chooses one, and eight fifteen minute questions from which the student chooses four.

**Creative Writing**
CRW 6130 (3)
CRW 6331 (3)
CRW 6317 (3)
LIT 6096
One of the following:
CRW 6132 (3)
CRW 6352 (3)

Three of the following:
AML 6017 (3) AML 6018 (3) AML 6027 (3)
AML 6007 (3) ENL 6206 (3) ENL 6126 (3)
ENL 6226 (3) ENL 6228 (3) ENL 6236 (3)
ENL 6246 (3) ENL 6256 (3) ENL 6276 (3)

**Comprehensive Examination**
All M.A. students in Literature will be required to write a comprehensive exam. Specifics of the exam can be found at [http://www.cas.usf.edu/english/MAHandbooknew.pdf](http://www.cas.usf.edu/english/MAHandbooknew.pdf). M.A. students in Rhetoric and Composition must orally defend a thesis OR opt to take an M.A. exam tailored to the student’s particular research specialization (this option replaces the thesis requirement). M.A. students in Creative Writing do not have a comprehensive examination, but must submit a thesis following specific guidelines.

A student may transfer up to six (6) hours of credit from another university; up to 12 hours taken as a non-degree seeking student. Up to six (6) hours may be taken in another department (the courses to be approved in advance by the Department of English Graduate Committee). A student receiving one grade of “C” or lower in a graduate course will be placed on academic probation. A student receiving two grades of “C” or lower will be dismissed from the program, subject to a review by the departmental Graduate Committee.

**Graduate Certificate Program**
For information on Graduate Certificates please visit [http://www.outreach.usf.edu/gradcerts/](http://www.outreach.usf.edu/gradcerts/)

**English Graduate Certificates Offered:**

**Creative Writing** – contact Professor Rita Ciresi at rciresi@cas.usf.edu

**Comparative and Interdisciplinary Literary Studies** – contact Dr. Susan Mooney at smooney@cas.usf.edu

**Teaching Composition** – contact Dr. Debra Jacobs at djacobs@chuma1.cas.usf.edu

**COURSES**
See [http://www.ups.usf.edu/sab/sabs.cfm](http://www.ups.usf.edu/sab/sabs.cfm)
ENGLISH

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)

Degree Program: English

Concentrations:
- Literature
- Rhetoric and Composition

Program Status: Active

Program Level: Doctoral

CONTACT INFORMATION

Program Director: John S. Hatcher
Other Contact: n/a
Phone: 813-974-2421
Fax: 813-974-2270
Email: jhatcher@cas.usf.edu
Web Address: http://www.cas.usf.edu/english/

Mailing Address:
University of South Florida
Department of English
4202 E. Fowler Avenue, CPR 107
Tampa, FL 33620-5550

PROGRAM INFORMATION

The goal of this program is 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 which include actual teaching experience.

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

ADMISSION INFORMATION

Program Admission Requirements
Literature/Rhetoric and Composition-
1) M.A. in English
2) GRE 650 V
3) GPA 3.7 grad
4) Three letters of recommendation
5) Personal statement

Program Admission Deadlines
Fall Deadline: January 15
Fall admissions only.

DEGREE PROGRAM REQUIREMENTS

The Ph.D. in English involves a minimum of 30 hours of course work beyond the M.A. degree, exclusive of credits devoted to the foreign language and tools-of-research requirements and to the doctoral dissertation. Included in these hours, (if these courses have not been taken on the Master’s level), are ENC 6319, ENG 6009, LAE 7376 – or LAE 7390, ENG 6018, and ENG 7939 (a seminar which must be taken twice). After completing the necessary course work a student must take a nine-hour written qualifying doctoral exam. Students passing this exam and fulfilling the foreign language/tools-of-research requirements are then admitted to doctoral candidacy. Students failing this exam more than once are dismissed from the program. Upon the completion and approval of the dissertation, the student will defend the dissertation in a two-hour oral examination. After successful completion of the dissertation and defense, the student will be awarded the doctoral degree.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
ENVIRONMENTAL SCIENCE AND POLICY

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Environmental Science and Policy
Concentrations: n/a
Program Status: Active
Program Level: Masters
Total Minimum Hours: 36

CONTACT INFORMATION

Program Director: L. Donald Duke
Other Contact: Karen Schrader
Phone: 813-974-2739
Fax: 813-974-2184
Email: klschrad@cas.usf.edu
Web Address: http://www.cas.usf.edu/esp/

Mailing Address:
University of South Florida
Environmental Science and Policy Program
4202 E. Fowler Avenue, SCA238
Tampa, FL 33620

PROGRAM INFORMATION

Contact the program for information.

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

ADMISSION INFORMATION

Program Admission Requirements: Admitted students are expected to have adequate academic preparation to complete advanced coursework and research in a range of scientific disciplines and in the scholarly application of scientific analyses to policy analysis and public decision-making. Suggested preparation includes: Two semesters of math (calculus preferred); one semester each of biology, chemistry, geosciences, and physics; and demonstrated aptitude in policy analysis, via coursework or experience. Additional information and guidance on admission policies are available from the Department.

Program Admission Requirements
Same as university with the exception that student must have a GRE of 1000 and an upper division GPA of 3.0; if non-native English speaker, TOEFL of at least 600; for full consideration for financial aid, GRE of at least 1200 V/Q; support from a department faculty member who agrees to serve as academic advisor.

DEGREE PROGRAM REQUIREMENTS

The curriculum consists of 36 credits divided into three categories:
1) Core Requirements 15 credits
2) Elective Requirements 15-18 credits
3) Thesis/Project 3-6 credits

Core Requirements

1) Applications/Tools: Students may select, with the advice of their committee, one of the following to fulfill the requirement for an applications/tool course.
   a. CGS 5765 – Introduction to Unix and C
   b. EML 4071 – Introduction to Visual Basics for Engineers and Scientists
   c. GEO 5142 – Geographic Information Systems for Non-Majors
   d. GEO 5157 – Advance Geographic Information Systems
   e. STA 5166 – Computational Statistics I (or other statistics course approved by ESP)

2) Environmental Thought and Communication – Students will learn about the history, scope, and meaning of the environmental movement. They will be exposed to a wide variety of alternative perspectives as well as techniques of effective communication (this course is currently being offered by the Dept of Geography – GEO 6116)
3) Seminar in Environmental Science (EVR 6936) – Students will learn to integrate scientific information from various disciplinary focuses including geology, biology, chemistry, and marine science.

4) Seminar in Environmental Policy (EVR 6937) – Students will learn to integrate policy related information from various disciplines including political science, economics, philosophy, geography, public administration, communication and education.

5) Case Studies in Environmental Science and Policy (EVR 6922) – This course is designed as an introductory course for the M.S. degree, or as a capstone course for the Graduate Certificate in Environmental Policy and Management. With the help of specific cases, students will learn the integration of science and policy in the real world.

Elective Requirements
Students complete 15 credit hours of elective courses within an area of concentration selected according to their interests and career goals, and in support of their intended thesis research. Within each concentration, students should select the courses in consultation with their Major Professor and Supervisory Committee. Areas of concentration include the following:

1. Ecology 15 credits primarily in the ESP and Biology Departments. The Department features particular concentrations in the areas of landscape ecology, wildlife ecology and management, conservation biology, and field methods including the use of GIS, GPS, and remote sensing technologies.

2. Environmental Policy and Management 15 credits guided by the guidelines for the Department’s Graduate Certificate in Environmental Policy and Management.

3. Geology. 15 credits primarily in the ESP and Geology Departments. The Department features particular concentrations in the areas of paleoecology and Karst geology, especially public policy planning in Karstic environments.

4. Hydrogeology. 15 credits as required by the Graduate Certificate in Hydrogeology, as specified by the Department of Geology.

5. Natural Hazards Assessment and Mitigation. 15 credits primarily in the Departments of ESP, Geography, Geology, and Civil Engineering.

6. Urban Environment. 15 credits primarily in the ESP and Geography departments.

7. Water Quality and Policy. 15 credits drawn from the Departments of ESP, Civil Engineering, Geography, and Geology. The Department features particular concentrations in the areas of watershed-based water quality assessment; and planning and management for water quality protection.

8. Others. Other areas of concentration are considered. Areas may be approved if they are strongly supported by USF Graduate School and by one or more ESP faculty members who have agreed to support the student’s research and coursework in the area.

Thesis/Project
Students must complete either 6 credits of supervised Thesis Research coursework (Thesis Option) or 3 credits of Thesis Research and 3 additional in the elective area. (Project option). Students form their Supervisory Committee typically after the completion of 12 credits in the program and before beginning research on the thesis topic. The Supervisory committee will advise students on their selection of elective courses and thesis/project. The Supervisory Committee will consist of at least one member from the ESP core faculty (normally the committee chair) and two other USF tenured or tenure-track faculty members approved by the committee chair and by the ESP Director of Graduate Studies.

COURSES
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
ENvironmental Science and Policy

Geography and Environmental Science and Policy
Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Geography and Environmental Science and Policy
Concentrations: Geography
Environment Science and Policy
Program Status: Active
NEW PROGRAM!
(BOG approval 10/21/2004)
Program Level: Doctoral

CONTACT INFORMATION

Program Director: L. Donald Duke
Other Contact: n/a
Phone: 813-974-2739
Fax: 813-974-2184
Email: klschrad@cas.usf.edu
Web Address: http://www.cas.usf.edu/esp/
Mailing Address:
University of South Florida
Environmental Science and Policy
Environmental Science and Policy Program
4202 E. Fowler Avenue, SCA238
Tampa, FL 33620

PROGRAM INFORMATION

The Ph.D. degree in Geography and Environmental Science and Policy is an interdisciplinary program, the curriculum of which is designed to take advantage of the strengths of multiple University departments in critical areas of geography and the environment. Emphasis is placed on providing theoretical rigor and methodological skills 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 reflecting the Departments’ strong emphases in working on solutions to real-world geographical and environmental problems.

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

Major Research Areas:
Economics, Social, and Planning Issues in the Urban Environment
Karst Science and Climate Change
Natural/Technological Hazards and Health
Landscape Ecology
Water Resources and Policy

ADMISSION INFORMATION

Admission standards follow those of the MS programs in the constituting Departments.

Program Admission Requirements
1) Undergraduate degree in relevant field, with preparation in both science and policy
2) GRE at least 1000 V/Q. Preferred: GRE Q at least 500; GRE verbal at least 500
3) GPA at least 3.0 in upper division undergraduate credits
4) If non-native English speaker, TOEFL of at least 600
5) Ability to conduct research in a field of current interest to departmental faculty

A minimum score of 1000 on the GRE (combined V + Q) and a minimum cumulative GPA of 3.0 at the undergraduate level or Masters’ Degree from an accredited institution of higher learning. However, these are minimum criteria. Students desiring prompt admittance to the PhD program or those requesting financial support should obtain GRE scores in the range of 1200 or above (combined V + Q) and display outstanding classroom achievement. Applicants whose first language is not English must also submit a score of at least 600 on the Tests of English as a Foreign Language (TOEFL). See Department guidelines for application materials expected and other expected qualifications for admittance.

Program Admission Deadlines
Fall Deadline: May 1
(March 1 for full consideration for financial aid)
**DEGREE PROGRAM REQUIREMENTS**

The curriculum consists of 60 semester hours past the master’s degree, or 90 hours past the bachelor’s degree, and allows distinct concentration either in Environmental Science and Policy or in Geography. The curriculum consists of the following requirements:

1. **Core Requirements**
   - 9 credits
2. **Area of Emphasis Electives**
   - 9 credits
3. **Other Electives and Dissertation**
   - 42 credits

**1. Core Requirements**

Students must complete all the following courses:

- a. Seminar in Natural Environments 3 credits
- b. Seminar in Urban Environments 3 credits
- c. Doctoral Dissertation Preparation 3 credits

**2. Area of Emphasis Elective Courses**

Upon entering the Program, students select an area of emphasis from among the five Major Research Areas listed above. Students complete nine (9) credits of coursework within the area of emphasis as designated by the Graduate Director or by the student’s major professor and Faculty Supervisory Committee. The coursework should be selected in a way that supports the student’s intended dissertation research. A wide variety of advanced graduate courses are available at the University in each of the five areas of emphasis.

**3. Other Electives and Dissertation Credits**

Students complete 42 credit hours in the form of elective coursework, directed reading, independent study, or dissertation 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. It is likely that students will 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 another department, as part of their studies. Students entering the Ph.D. program who have not completed a Masters Degree in either Geography or Environmental Science and Policy should expect to complete coursework equivalent to the requirements of one of those Masters programs.

**Ph.D. Candidacy and Dissertation**

A student will be admitted to candidacy following successful completion of comprehensive qualifying exams and the successful oral defense of a dissertation proposal. To complete the degree will require the full completion and oral defense of a comprehensive Ph.D. dissertation. See Program guidelines for detailed procedures on dissertation research, faculty supervision, structure of examinataions and defenses, and completion of the dissertation.

**COURSES**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

See Program guidelines for additional information.
FRENCH

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: French
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Roberta Tucker
Other Contact: n/a
Phone: 813-974-2548
Fax: 813-974-1718
Email: tucker@cas.usf.edu
Web Address: http://www.cas.usf.edu/languages/
Mailing Address:
University of South Florida
World Language Education
French Program
4202 E. Fowler Avenue, CPR 107
Tampa, FL 33620

PROGRAM INFORMATION

Contact Program for Information.

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

ADMISSION INFORMATION

Program Admission Requirements
Undergraduate GPA of 3.0 plus 2-3 letters of recommendation, a writing sample in French, and an oral interview in French (can be done by phone).

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

1. Proficiency in a second foreign language.
2. Satisfactory completion of a written comprehensive examination on French language, literature, and civilization. This exam is based on a reading list.
3. FOW 6805 Bibliography
4. Course work following one of the plans listed below:
   a. Plan A - 36 hours of graduate courses in French. No thesis.
   b. Plan B - 36 hours, of which 27-30 graduate hours must be in one language area and 6-9 in another area/department, as approved by the French Graduate Program Director. No thesis.
   c. Plan C - 27 semester hours in one language area plus a thesis, with 6 hours of FRE 6971.
   d. Plan D - 27 semester hours, with 18-21 hours of graduate-level course work in one language area and 6-9 in another area/department, as approved by the French Graduate Program Director. In addition: a thesis, with 6 hours of FRE 6971

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Special Summer Programs Overseas
The Department of World Language Education in cooperation with the International Affairs Center, offers several summer study programs overseas. These include study in several locations in France and Canada. For complete details, contact the program advisors or the International Affairs Center.
GEOGRAPHY

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)

Degree Program: Geography

Concentrations:
- Geographic Information Systems and Spatial Analysis
- Physical and Natural/Technological Hazards
- Economic, Social and Planning Issues in the Urban Environment

Also offered as:

Program Status: Active

Program Level: Masters

Total Minimum Hours: 30 hours

CONTACT INFORMATION

Program Directors: Philip Reader
Other Contact: n/a
Phone: 813-974-2386
Fax: 813-974-4808
Email: preeder@cas.usf.edu
Web Address: http://www.cas.usf.edu/geography/index.html

Mailing Address:
University of South Florida
Geography
Geography Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

Geography is the study of the human-environment relationship either in a global or more regional context. Physical geographers focus on physical/human interrelationships and the interconnections among the various physical environmental elements. Human geographers focus on human interactions with their own environmental constructions, both built and social. Physical and human geographers both rely on specific techniques, including cartography, geographic information systems, and field work, in their research. The Department of Geography provides the opportunity to pursue the study of geography with particular emphasis on applied work geared to help solve real world problems.

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

Major Research Areas:
- Economics, Social, & Planning in the Urban Environment
- Karst Science
- Meteorology, Climatology and Climate Change
- Physical Geography
- Natural/Technological Hazards and Health
- Landscape Ecology
- Water Resources and Policy
- Geographic Information Science

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus two letters of recommendation, transcripts, a letter of intent, and a graduate assistant application if the applicant is applying for a GA position.

Program Admission Deadlines
Fall Deadline: March 1 if the applicant is applying for a GA position; otherwise June 1
Spring Deadline: October 15 (with or without GA application)

DEGREE PROGRAM REQUIREMENTS

Graduate students in Geography are required to complete 30 credit hours of graduate level courses in addition to the general graduate requirements of the university. A comprehensive written exam covering the general field of Geography is required of each student after completion of a minimum of 15 graduate credit hours. Students also will be required to defend orally their M.A. thesis or internship project after its completion.
All students must take the following core courses:

GEO 6058, plus one of the following:
GEA 6195, GEA 6215, GEA 6252, GEA 6405, GEA 6504, GEA 6745

Students must select from one of the tracks listed below. Students must select three courses (9 hrs.) from the selected track, plus 6 formal credit hour electives at a level of 5000 or higher. At least one of these electives must be taken outside of the student’s track. Electives may be selected from courses outside of the Department with the consent of the student’s advisor. The remaining 9 credits hours must be taken as thesis (GEO 6971), internship (GEO 6944), directed research (GEO 6918), or independent study (GEO 6908).

Track A: Urban and Social
GEO 5475 GEO 5545 GEO 5605 GEO 5704
GEO 6116 GEO 6428 GEO 6566

Track B: Environmental
GEO 5134C GEO 5215 GEO 5263 GEO 5288
GEO 5347 GEO 6116 GEO 6209C GEO 6217 GEO 6255 GEO 6286

Track C: Techniques
GEO 5134C GEO 6115 GEO 6119 GEO 5157
GEO 6137 GEO 6166 GEO 6159 GEO 6178

Thesis/Non-Thesis
Currently a thesis only or internship option degree, but a non-thesis option is being developed.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
GEOGRAPHY

Geography and Environmental Science and Policy
Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)

Degree Program: Geography and Environmental Science and Policy

Concentrations: Geography,
               Environmental Science and Policy

Program Status: Active
               NEW PROGRAM! (BOG approval 10/21/2004)

Program Level: Doctoral

CONTACT INFORMATION

Program Director: Philip Reeder
Other Contact:
Phone: 813-974-4292
Fax: 813-974-4808
Email: preeder@cas.usf.edu
Web Address: http://www.cas.usf.edu/geography

Mailing Address:
University of South Florida
Environmental Science and Policy Program
4202 E. Fowler Avenue, SCA238
Tampa, FL 33620

PROGRAM INFORMATION

The Ph.D. degree in Geography and Environmental Science and Policy is an interdisciplinary program, the curriculum of which is designed to take advantage of the strengths of multiple University departments in critical areas of geography and the environment. Emphasis is placed on providing theoretical rigor and methodological skills 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 reflecting the Departments’ strong emphases in working on solutions to real-world geographical and environmental problems.

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

Major Research Areas:
Economics, Social, and Planning Issues in the Urban Environment
Karst Science and Climate Change
Natural/Technological Hazards and Health
Landscape Ecology
Water Resources and Policy

ADMISSION INFORMATION

Admission standards follow those of the M.S. programs in the constituting Departments.

Program Admission Requirements
1) Undergraduate degree in relevant field, with preparation in both science and policy
2) GRE at least 1000 V/Q. Preferred: GRE Q at least 500; GRE verbal at least 500
3) GPA at least 3.0 in upper division undergraduate credits
4) If non-native English speaker, TOEFL of at least 600
5) Ability to conduct research in a field of current interest to departmental faculty

A minimum score of 1000 on the GRE (combined V + Q) and a minimum cumulative GPA of 3.0 at the undergraduate level or Masters’ Degree from an accredited institution of higher learning. However, these are minimum criteria. Students desiring prompt admittance to the PhD program or those requesting financial support should obtain GRE scores in the range of 1200 or above (combined V + Q) and display outstanding classroom achievement. Applicants whose first language is not English must also submit a score of at least 600 on the Tests of English as a Foreign Language (TOEFL). See Department guidelines for application materials expected and other expected qualifications for admittance.

Program Admission Deadlines
Fall Deadline: May 1
(March 1 for full consideration for financial aid)
DEGREE PROGRAM REQUIREMENTS

The curriculum consists of 60 semester hours past the master’s degree, or 90 hours past the bachelor’s degree, and allows distinct concentration either in Environmental Science and Policy or in Geography. The curriculum consists of the following requirements:

1. Core Requirements 9 credits
2. Area of Emphasis Electives 9 credits
3. Other Electives and Dissertation 42 credits

1. Core Requirements
Students must complete all the following courses
a. Seminar in Natural Environments 3 credits
b. Seminar in Urban Environments 3 credits
c. Doctoral Dissertation Preparation 3 credits

2. Area of Emphasis Elective Courses
Upon entering the Program, students select an area of emphasis from among the five Major Research Areas listed above. Students complete nine (9) credits of coursework within the area of emphasis as designated by the Graduate Director or by the student’s major professor and Faculty Supervisory Committee. The coursework should be selected in a way that supports the student’s intended dissertation research. A wide variety of advanced graduate courses are available at the University in each of the five areas of emphasis.

3. Other Electives and Dissertation Credits
Students complete 42 credit hours in the form of elective coursework, directed reading, independent study, or dissertation 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. It is likely that students will 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 another department, as part of their studies. Students entering the PhD program who have not completed a Masters Degree in either Geography or Environmental Science and Policy should expect to complete coursework equivalent to the requirements of one of those Masters programs.

Ph.D. Candidacy and Dissertation
A student will be admitted to candidacy following successful completion of comprehensive qualifying exams and the successful oral defense of a dissertation proposal. To complete the degree will require the full completion and oral defense of a comprehensive Ph.D. dissertation. See Program guidelines for detailed procedures on dissertation research, faculty supervision, structure of examinations and defenses, and completion of the dissertation.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
See Program guidelines for additional information.
GEOLOGY

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Geology
Concentrations: Aqueous Geochemistry, Biogeochemistry, Coastal Geology, Environmental Geophysics, Geomorphology, Hydrogeology, Paleoclimatology, Paleontology, Petrology, Tectonophysics, Volcanology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Peter J. Harries
Other Contact: n/a
Phone: 813-974-2236
Fax: 813-974-2654
Email: harries@chuma.cas.usf.edu
Web Address: http://www.cas.usf.edu/geology/index.html

Mailing Address:
University of South Florida
Geology
Geology Program
4202 E. Fowler Avenue, SCA528
Tampa, FL 33620

PROGRAM INFORMATION

Geology incorporates the fundamentals of biology, chemistry, mathematics, and physics to study the earth and the processes that affect our planet.

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program Admission Requirements
Same as university admission requirements plus 3 letters of recommendation, personal statement, listing of previous coursework, transcripts.

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

The Department of Geology requires a candidate for the thesis-track M.S. Degree to complete at least 30 graduate credit hours. These hours are subdivided into 24 hours of structured coursework, of which at least ten (10) must be at the 6000 level, and at least six (6) hours in thesis research (GLY 6971). The curriculum for a Geology graduate student varies depending on the area of research interest. Specific course work for the degree 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 program 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.
Hydrogeology Internship
M.S. Option –
This program requires 30 hours of structured coursework, and a 3-credit internship project. A list of approved courses is available from the Department. Criteria for selecting appropriate internship projects are contained in the Geology Graduate handbook. Internship projects, which are supervised by Professional Geologists (PGs), must receive prior approval by the Internship Coordinator. The curriculum requires a comprehensive exit exam that is based on coursework and the internship project. Before the exit exam, the student must submit an Internship Project Report approved by the supervising PG. The hydrogeology 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.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm
# GEOLGY

Doctor of Philosophy (Ph.D.)

## DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Doctor of Philosophy (Ph.D.)</th>
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<tr>
<td>Degree Program:</td>
<td>Geology</td>
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<tr>
<td>Concentrations:</td>
<td>Aqueous Geochemistry</td>
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<td>Biogeochemistry</td>
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<td>Coastal Geology</td>
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<td>Environmental Geophysics</td>
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<td>Paleoclimateology</td>
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<td>Petrology</td>
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<td>Tectonophysics</td>
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<td>Volcanology</td>
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<td>Program Status:</td>
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<td>Program Level:</td>
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## CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Program Director:</th>
<th>Peter J. Harries</th>
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</thead>
<tbody>
<tr>
<td>Other Contact:</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-2236</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-2654</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:harries@chuma.cas.usf.edu">harries@chuma.cas.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://www.cas.usf.edu/geology/index.html">http://www.cas.usf.edu/geology/index.html</a></td>
</tr>
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</table>

## PROGRAM INFORMATION

Geology incorporates the fundamentals of biology, chemistry, mathematics, and physics to study the earth and the processes that affect our planet.

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

**Major Research Areas:** n/a

## ADMISSION INFORMATION

**Program Admission Requirements**
Same as university admission requirements plus 3 letters of recommendation, personal statement, listing of previous coursework, transcripts.

**Program Admission Deadlines**
Same as university.

## DEGREE PROGRAM REQUIREMENTS

The Ph.D. program in Geology requires a minimum of 15 semester hours of graduate (6000 level) structured course work after the Master’s or equivalent. Course requirements beyond this are at the discretion of the student’s committee. All doctoral students must maintain good standing in the Graduate School (overall GPA ≥ 3.0) 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 program. Only courses in which the student receives at least a B may be counted toward the 15-hour, 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.

General examinations and presentations of thesis proposals should be completed no later than the end of the second year in the doctoral program. The examining and dissertation committees are the same and will be comprised of no less than five members, at least three of which must be USF faculty, and at least one member from outside the department.
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.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm
GERONTOLOGY

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Gerontology
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Cathy McEvoy
Other Contact: Amy Woodbury
Phone: 813-974-2414
Fax: 813-974-9754
Email: amwoodbu@cas.usf.edu
Web Address: http://www.cas.usf.edu/gerontology/index.html

PROGRAM INFORMATION

Gerontology is the study of the process of human aging in all its aspects: physical, psychological, and social. In the School of Aging Studies, particular emphasis is placed on educating Gerontology students who, in their professional careers, will work to sustain or improve the quality of life of older people. Many of our program graduates are employed in agencies providing services for older adults. For information about the interdisciplinary Ph.D., see the separate listing for Aging Studies Ph.D.

The School offers the M.A. in Gerontology, with either a thesis or non-thesis option. In addition to completing a required core curriculum, students may select gerontology courses suited to their particular career goals. These include courses focused on such diverse areas as research, program administration, and direct service. While the M.A. program does not have separate tracks, students are advised to select courses in such concentrations as case management, administration, mental health, and research. Students should meet with their advisors to select concentrations appropriate to their professional goals.

Internships are recommended and available for students who need practical experience in the field of aging. Students interested in internships should see the school’s internship director. Following completion of the necessary coursework there is a comprehensive examination designed to test the student’s knowledge of, and ability to integrate, key concepts and information in the field of gerontology. This examination must be taken and passed by all students in the M.A. program. Students electing the thesis option must successfully pass an oral examination on the thesis. There are no language requirements.

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

ADMISSION INFORMATION

Program Admission Requirements
University requirements with the exception of a GPA of 3.0 or greater and a combined V/Q GRE score of at least 900 or a GPA of 2.5 and a combined V/Q GRE score of 1000.

Program Admission Deadlines
Fall Deadline: June 1
Spring Deadline: October 15
Summer Deadline: March 1

DEGREE PROGRAM REQUIREMENTS

The M.A. degree requires 36 credits of graduate study.

Required courses (15 credits) include:
GEY 5620 (3) GEY 5630 (3) GEY 6450 (3) GEY 6600 (3) GEY 6613 (3)

The following courses are suggested for three focus areas:

Case management:
GEY 6614 Psychopathology and Aging;
GEY 6616 Mental Health Assessment of Older Adults;
GEY 6617 Gerontological Mental Health Counseling;
GEY 6618 Gerontological Group and Family Counseling;
GEY 6934 Gerontological Case Management
Administration of Services for the Aged:
GEY 6340  Housing for the Elderly;
GEY 6500  Seminar in Principles of Administration;
GEY 4327  Long Term Care Administration I – The Service Array;
GEY 4328  Long Term Care Administration II – Institutional Care;
GEY 6934  Using Computers in Adm. Decision-making.

Gerontological Research:
GEY 6934 Program Planning and Evaluation;
GEY 6934 Advanced Statistics in Aging Research;
GEY 6910 Directed Research in Gerontology;
GEY 6971 Thesis.

The remaining 21 hours of coursework must be selected from other graduate courses in gerontology.

Comprehensive Exam
Thesis (if in Thesis option)

COURSES  See http://www.ugs.usf.edu/sab/sabs.cfm
HISTORY

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: History
Concentrations: American History, Ancient History, European History, Latin American History, Medieval History
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Robert Ingalls
Other Contact: Sylvia Wood
Phone: 813-974-2809
Fax: 813-974-6228
Email: ingalls@cas.usf.edu
Web Address: http://www.cas.usf.edu/history/
Mailing Address:
University of South Florida
Department of History
History Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The Department of History offers the M.A. degree. Members of the graduate faculty in History have earned recognition as teachers, scholars, and contributors to the community. The Department offers both a thesis and a non-thesis Master of Arts degree organized around the following fields:

Field 1: American History to 1877
Field 2: American History since 1877
Field 3: Ancient History
Field 4: Medieval History
Field 5: Early Modern Europe to 1789
Field 6: Modern Europe since 1789
Field 7: Latin America

The thesis program emphasizes preparation for further graduate study. The non-thesis program is designed to meet the needs of those students seeking a terminal degree at the master's level.

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

Major Research Areas:
Florida history; Latin American history; US since/to 1877

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus a 2 page statement of goals and 2 letters of recommendation.

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

In addition to the general requirements of the University, a candidate is required to complete 36 hours in the following distribution:

Core Courses (HIS 6112) 4 hours
Major Field 16 hours
Minor Field 8 hours
Thesis (HIS 6971) 8 hours

Non-Thesis 8 hours of 6000 level regularly scheduled history courses.

Of the 36 hours required for the Master of Arts with thesis, at least 20 must be in formal, regularly scheduled course work. For the Master of Arts without thesis, at least 28 must be in formal, regularly scheduled course work. A minimum of 16 must be at the 6000 level. Subject to the satisfaction of above requirements, courses at the 5000 level are acceptable as part of a planned degree program. In special circumstances, major advisors may approve up to 6 hours at the 4000 level with the definite understanding that additional and superior work will be required of the graduate student. The core course, HIS 6112, “Analysis of Historical Knowledge” is required of all M.A. students.

In the thesis degree program students must be able to demonstrate a reading proficiency in one foreign language.

A satisfactory preparation in the core course, two fields, and the completion of a comprehensive examination are required of all M.A. students for graduation.

Students with a major field in American History and with a thesis topic that does not require use of a foreign language may substitute quantitative methods for the language requirements. The quantitative methods option will be fulfilled by successful completion with a grade of at least
“B” in one of the following courses ANG 5937; EDF 6407; POS 5736, MAT 5932.

Upon admission, M.A. students will select a major professor who will arrange their programs of study. The student, in consultation with the major professor, solicits two other members to serve on a supervisory committee.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm
LATIN AMERICAN, CARIBBEAN AND LATINO STUDIES

Master of Arts (M.A.)

**DEGREE INFORMATION**

- **Degree Offered:** Master of Arts (M.A.)
- **Degree Program:** Latin American, Caribbean and Latino Studies
- **Concentrations:** n/a
- **Program Status:** Active
- **Program Level:** Masters

**CONTACT INFORMATION**

- **Program Director:** Ward Stavig
- **Other Contact:** n/a
- **Phone:** 813-974-3547
- **Fax:** 813-974-8138
- **Email:** laclas@iac.usf.edu
- **Web Address:** http://web.usf.edu/~lacs/academics-grad_studies.html
- **Mailing Address:** University of South Florida
  Government and International Affairs
  Latin American, Caribbean and Latino Studies Program
  4202 E. Fowler Avenue, CPR 107
  Tampa, FL 33620

**PROGRAM INFORMATION**

Contact program for information.

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

**ADMISSION INFORMATION**

**Program Admission Requirements**
Must have 3.0 GPA, three letters of recommendation, statement of purpose.

**Program Admission Deadlines**
Same as university.

**DEGREE PROGRAM REQUIREMENTS**

The Curriculum consists of 36 credits divided into three categories:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core requirements</td>
<td>9 credits (6 seminar, 3 methodology)</td>
</tr>
<tr>
<td>Major Field requirements</td>
<td>12 credits</td>
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<td>Minor Field requirements</td>
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<tr>
<td>Additional Electives</td>
<td>3 credits</td>
</tr>
<tr>
<td>Thesis or Electives</td>
<td>6 credits</td>
</tr>
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</table>

**Core Requirements**
Students must take two interdisciplinary core seminars and a methods course upon entering the program. The core seminars, directed by an instructor of record from one of the participating departments, will familiarize students with the literature, existing knowledge, and research approaches of the various fields of area studies and invited to acquaint students with faculty and their research. The purposes of the seminars are:

- to provide an interdisciplinary graduate experience
- to foster a community of scholars and learners focused on Latin American, Caribbean, and Latino experiences
- to encourage the integration of learners into the larger Latin communities of Tampa Bay, West Florida, and the hemisphere.

Students will also take a three (3) hour methodology course that acquaints them with particular research relevant to their discipline and when possible, Latin America. This includes special approaches to finding documentation from Latin America and the Caribbean; newly-available search tools available on the internet; and an overview of how disciplines utilize different research materials.

**Major and Minor Fields**

With the concurrence of the LACLAS advisor, students will elect 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. The committee members will counsel the student and serve as members of the exam or thesis committees.

A large number of courses are available to fulfill the major and minor field requirements. These are listed separately.
and change somewhat from year to year. Departments who frequently work with LACLAS are Anthropology, Government and International Affairs, Sociology, Mass Communication, Geography, Social Work, Women Studies, and Economics. History, Languages (i.e. World Language Education), Humanities and American Studies, Art History and Africana Studies may be used for either field at the discretion of the committee. Students may also request to have courses from other departments count toward major or minor fields.

**Electives**

Students can take one elective from outside the major and minor fields, in order to complement their core studies. These might be technical courses, study abroad tours, internships, math and science courses, methodology, or another unrelated field. In all cases, students must justify their elective hours to receive approval by their committees.

In addition, students opting for the non-thesis track must take one more course in each of their major and minor fields. Students considering teaching in community colleges are encouraged to take more classes in their major field.

**Graduation Requirements**

At the conclusion of their coursework, students who opted for thesis must gain approval of the thesis by the committee. All candidates for the degree must also demonstrate language proficiency either by examination or by completing a 3000-level course in Spanish or Portuguese with a B or better. Finally, all non-thesis candidates must pass a three (3) hour comprehensive written exam. The latter will be composed and graded by the committee. Students must also meet all College and University Graduation Requirements.

**COURSES**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
LIBERAL ARTS

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

**DEGREE INFORMATION**

**Degree Offered:** Master of Liberal Arts (M.L.A.)

**Degree Program:** Liberal Arts

**Concentrations:**
- Africana Studies
- Florida Studies (Offered in St. Petersburg)
- Humanities
- Liberal Studies
- Social and Political Thought

**Program Status:** Active

**Program Level:** Masters

**CONTACT INFORMATION**

**Program Director:** Ruth Banes

**Other Contact:** Silvio Gaggi

**Phone:** 813-974-2431

**Fax:** 813-974-9409

**Email:** banes@luna.cas.usf.edu

**Web Address:** http://www.cas.usf.edu/

**Mailing Address:**
University of South Florida
Humanities and American Studies
Liberal Arts Program
4202 E. Fowler Avenue, CPR107
Tampa, FL 33620

**PROGRAM INFORMATION**

The Master of Liberal Arts offers students an opportunity to study from an interdisciplinary perspective the ideas and works that have shaped world culture. Five program concentrations are available: the Liberal Studies Sequence, though broadly interdisciplinary, focuses on a concept, movement or idea. The Humanities Sequence requires a concentration in the Dept of Humanities and American Studies. The Social and Political Thought Sequence requires a program of study approved by a faculty committee. The Africana studies Sequence requires a concentration in Africana Studies. It is an interdisciplinary program that focuses on the study of African American, African, and African Diasporan culture and society. The Florida Studies Sequence allows students to build a program based on a broad array of Florida-based classes drawing on many programs, including History, English, Marine Science, Political Science, Journalism and Media Studies, Art, and Anthropology. All programs require a minimum of 30 credits of course work and a 3 credit thesis.

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

**ADMISSION INFORMATION**

**Program Admission Requirements**
Upper division undergraduate GPA of 3.0 and a GRE of at least 1000 with a verbal score of 500 or higher and an analytical writing score of not less than 4.5. Contact individual concentration advisors for possible additional requirements (e.g., recommendations, writing samples, etc.)

**Program Admission Deadlines**
Same as university.

**DEGREE PROGRAM REQUIREMENTS**

**Africana Studies Concentration – Total minimum required hours (33)**
Courses – 30 hours from the approved course list. Twenty-one hours must be in Africana Studies courses, include AFA 5935 and AFA 6101, and 9 in approved outside electives. At least 15 hours must be at the 6000 level; four hours may be at the 4000. Satisfactory completion of a written comprehensive examination. Thesis (3); thesis Defense

**Humanities Concentration – Total minimum required hours: (33)**
Courses - 30 hours in courses from the approved list. 21 hrs. must be in Humanities courses, including HUM 6815 and HUM 6801, and 9 hrs. in approved outside electives. At least 15 hours must be at the 6000 level; 4 hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination. Thesis (3); thesis Defense.
Liberal Studies Concentration –
Total minimum required hours: (33)
Courses - 30 hours in courses from the approved course list. At least nine but no more than 12 hours must be taken in a single department. At least 20 hours must be at the 6000 level; four hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination. Thesis (3); thesis Defense.

Social and Political Thought Concentration—
Total minimum required hours: (33)
Course - 30 hours of courses approved by a committee selected by the student from the program faculty. Eight hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination

Florida Studies Concentration (St. Petersburg Campus)
Total minimum required hours: (33)
Course - 30 hours of courses from an approved list. At least 20 hours must be at the 6000 level; four hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination. Thesis (3); Thesis Defense.

All Concentrations require the student to work closely with an assigned major professor. Prior to registration for the second semester in the Liberal Studies and Africana Studies sequences, the student must submit in writing to the Master of Liberal Arts Program Director (Liberal Studies Concentration) or the Director of Africana Studies (Africana Studies Concentration) a signed statement of intent to focus on a particular concept, idea, theme, or area of emphasis. This statement must be approved, dated, and signed by the Director and made a part of the student’s record. Subsequent courses selected for study are expected to center around this stated focus. Variation from the focus must be approved by the Director. Courses may be taken from any of the programs listed below:

- American Studies
- Anthropology
- Art
- Communication
- Criminal Justice
- English
- Geography
- History
- Humanities
- Interdisciplinary Social Science
- Language
- Mass Communications
- Philosophy
- Political Science
- Religious Studies
- Sociology

Specific course listings for each Concentration may be obtained from the MLA office, CPR 363.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
LIBRARY AND INFORMATION SCIENCE

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Library and Information Science
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Vicki Gregory
Other Contact: Mel Pace
Phone: 813-974-3520
Fax: 813-974-6840
Email: lis@luna.cas.usf.edu
Web Address: http://www.cas.usf.edu/lis/
Mailing Address: University of South Florida
Library and Information Science
Library and Information Science Program
4202 E. Fowler Avenue, CIS1040
Tampa, FL 33620

PROGRAM INFORMATION

The mission of the School of Library and Information Science is to educate students for careers and leadership roles in library and information professions that serve the needs of a culturally diverse, technological society; to contribute to the body of theoretical and applied knowledge in the discipline; and to serve current and emerging needs in the University, the community, and the profession. For Goals, Objectives, and Student Learning Outcomes, refer to the program’s web page.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as the university. However, the LIS program will waive the GRE requirement if the student meets one of the following criteria:

1. a 3.5 or higher GPA in a completed master’s degree program
2. a 3.0 or higher GPA in upper division undergraduate work.

Students not meeting either of the above waiver criteria must also submit 3 reference letters and a statement of purpose and goals to serve as a writing sample.

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

A minimum of 39 semester hours is required for the Master’s degree program. Students must maintain a 3.0 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.

Required Courses
Six core courses are required: LIS 5404; LIS 6271; LIS 6409 or LIS 6455; LIS 6511; LIS 6603; LIS 6735 or LIS 6725, plus a planned program of electives developed for each student as approved by the advisor.

Courses Outside the School
Degree-seeking students are permitted to enroll in courses, usually limited to six semester hours, outside the School of Library and Information Science when, in the context of the development of a purposeful program, an interdisciplinary approach seems appropriate. Students must obtain the approval of their Faculty advisor.

Comprehensive Examination
Students must pass a written comprehensive examination. Students who plan to graduate in August may take the comprehensive examination in the spring with the approval of their faculty advisor. Students must be enrolled for a minimum of two credit hours during the semester in which they take the comprehensive examination. The School conducts comprehensive examinations only in the spring and fall semesters.
COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

ALA-USF, ASSIST-USF, and SLA-USF are student chapters of the American Library Association, American Society for Information Science & Technology and Special Libraries Association linked with the School of Library and Information Science and are open to all members of the University community interested in information science or librarianship. All provide programs and guest speakers of interest to the campus community, maintain several discussion lists, and publish a newsletter for their members. These organizations are the voice of students in the school, and members of the associations are included on committees within the School.
# LINGUISTICS

## Master of Arts (M.A.)

### DEGREE INFORMATION

<table>
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<tr>
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<td>Degree Offered:</td>
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<td>Degree Program:</td>
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<td>Concentrations:</td>
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<td>Program Status:</td>
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### CONTACT INFORMATION

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<tr>
<td>Program Director:</td>
<td>Wei Zhu</td>
</tr>
<tr>
<td>Other Contact:</td>
<td></td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-3805</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-1718</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:wzhu@mail.cas.usf.edu">wzhu@mail.cas.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://www.cas.usf.edu">http://www.cas.usf.edu</a></td>
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**Inactive.** Currently, students are not being admitted to this program.
LINGUISTICS: ENGLISH AS A SECOND LANGUAGE

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Linguistics: English as a Second Language (ESL)
Concentrations: n/a
Also offered as: Applied Linguistics
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Wei Zhu
Other Contact: Phone: 813-974-3805
Fax: 813-974-1718
Email: wzhu@mail.cas.usf.edu
Web Address: http://www.cas.usf.edu/languages/linguistics
Mailing Address: University of South Florida
World Language Education
Linguistics: English as a Second Language Program
4202 E. Fowler Avenue, CPR107
Tampa, FL 33620

PROGRAM INFORMATION

Linguistics is primarily an upper-level and graduate discipline with strong interdisciplinary concerns. The Linguistics Program offers two graduate tracks:

1. The Master of Arts in Linguistics (thesis), and
2. The Master of Arts in Applied Linguistics (Teaching English as a Second Language); (non-thesis).

For information on the M.A. in Linguistics, refer to that Program listing.

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

Major Research Areas:
Language testing, curriculum development, second language learning and teaching.

ADMISSION INFORMATION

Program Admission Requirements
Same as university with the exception that both a 3.0 GPA and a 1000 on the GRE taken within five years preceding application; plus:

1) three letters of recommendation,
2) a two-page statement of purpose, written by the applicant.

3) Students whose native language is other than English and whose bachelor’s degree was not earned in an English-medium university in an English speaking country must provide a TOEFL score of 600 (250 on the computerized version).

Applicants should note that proficiency in a second language is required by the time of graduation.

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

Non-Thesis: Applied Linguistics (TESL)

I. Core Requirements (27 hours)
LIN 5700 (3) LIN 6081 (3) LIN 6675 (3)
LIN 6720 (3) LIN 6748 (3)
TSL 5371 (3) TSL 5372 (3) TSL 5471 (3)
TSL 5525 (3)

II. Six hours of approved electives

III. Additional requirements 6 hours of internship through enrollment in TSL 6945

A written and oral comprehensive examination is required for all M.A. students, as is submission of end-of-program portfolio and demonstration of proficiency in a language other than the student's native tongue.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
MASS COMMUNICATIONS

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Mass Communications
Concentrations: Mass Communication Studies, Public Relations Studies
Also offered as: Certificate in Converged Media, Concentration in Journalism Studies
Program Status: Active
Program Level: Masters

PROGRAM INFORMATION

The M.A. degree program 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 Mass Communication Studies Concentration emphasizes the theoretical principles and research methods of mass communications. The Public Relations Studies Concentration emphasizes public relations management and social science research.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools and the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

ADMISSION INFORMATION

Program Admission Requirements
Same as university except that the students are required to have both a 3.0 upper division GPA and 1000 on the GRE. In addition, a resume, three letters of recommendation (academic recommendations preferred), a strong letter of intent and an appropriate bachelor's degree from an accredited institution.

Program Admission Deadlines
Same as university.

CONTACT INFORMATION

Program Director: Kenneth C. Killebrew
Other Contact: n/a
Phone: 813-974-2591
Fax: 813-974-2592
Email: mcom@chuma.cas.usf.edu
Web Address: http://www.cas.usf.edu/mass_com/index.html

Mailing Address:
University of South Florida
School of Mass Communications
Mass Communications Program
4202 E. Fowler Avenue, CIS1040
Tampa, FL 33620

DEGREE PROGRAM REQUIREMENTS

Mass Communication Studies
This program requires 36 hours of course work, including 6 hours of thesis. At least twenty-four hours are taken in the School of Mass Communications. The remaining 9-12 hours may be taken in graduate-level courses offered in other departments of the University.

Public Relations Studies
This program requires 36 hours of course work, including six (6) hours of thesis, nine (9) hours of the mass communications core, nine (9) hours of the public relations core, three (3) hours in organizational communication studies, and nine (9) hours of electives.

Students in both concentrations are required to take a comprehensive written examination after they have completed at least 21 hours of mass communications course work, including the required courses for each concentration of study.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Certificate in Converged Media - This program is designed as a 15-hour concentration in advanced media presentation and includes writing, web design, and placement of multi-media stores in a web-based environment. Students gain expertise in video and audio streaming and appropriate platform selection for created stories. For more specific information, go to http://www.outreach.usf.edu/gradcerts/
MATHEMATICS

Master of Arts (M.A.)

**DEGREE INFORMATION**

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<th>Degree Offered:</th>
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<td>Degree Program:</td>
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<td>Total Minimum Hours:</td>
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**CONTACT INFORMATION**

Program Directors:
Masahiko Saito (Pure/Applied) – saito@math.usf.edu
A.N.V. Rao (Statistics) – arao@chuma.cas.usf.edu

Other Contact:
Natasa Jonoska, jonoska@math.usf.edu

Phone: 813-974-2643
Fax: 813-974-2700
Email: ga@math.usf.edu
Web Address: http://www.math.usf.edu/

Mailing Address:
University of South Florida
Department of Mathematics
Mathematics Graduate Program
4202 E. Fowler Avenue, PHY114
Tampa, FL 33620-5700

**PROGRAM INFORMATION**

The Department of Mathematics at the University of South Florida, Tampa Campus, is composed of approximately thirty faculty who do research in a variety of fields, and teach courses ranging from the freshman to the doctoral level.

The Department serves as the editorial base for the international journals: Abstract and Applied Analysis and Journal of Theoretical Probability. The Center for Mathematical Services within the department provides lectures, special programs for secondary students, and in-service training programs in mathematics.

Some graduate courses are organized into Core and Elective Sequences as follows:

**Core Sequences:**
- Algebra: MAS 5107, 5311, 5312
- Analysis: MAA 5306, 5307, 5616
- Mathematical Statistics: STA 5326, 6326
- Topology: MTG 5316, 5317

**Elective Sequences:**
- Applied Mathematics: three courses, one from each group listed below.
  - (Group A) MAP 5407, 5345
  - (Group B) MAA 5405, MAT 5932 (MAD 4401)
  - (Group C) MAP 6205, MAT 6932 (Dynamical Systems II)
- Combinatorics: MAD 6206, 6207
- Complex Analysis: MAA 6406, 6407
- Statistical Methods: STA 5166, 6167

Dynamical Systems: MAT 5932 (Dynamical Systems I), 6932 (II)
Foundations: MHF 5306, 6307
Linear Models and Multivariate Analysis: STA 6208, 6356
Nonlinear Analysis: MAP 5316, 5317
Ordinary Differential Equations: MAP 6336, MAT 5932 (Dynamical Systems I)
Partial Differential Equations: MAP 5345, 6356
Probability: STA 5446, 6447
Stochastic Processes and Time Series Analysis: STA 6206, 6876
Theory of Computing: MHF 5306, MAD 6616

For degree requirements, each course from the Elective Sequence list above counts towards only one Elective Sequence. A qualifying examination based on a Core Sequence is called a Core Qualifying Examination. The syllabus for each examination is available from the Department. Core Qualifying Examinations are offered in January, May and September. A student who passes a Core Qualifying Examination at Ph.D. level will be considered to have completed the corresponding Core Sequence. Credit hours of MAT 6908 Independent Study, MAT 6939 Graduate Seminar, and MAT 6911 / 7912 Directed Research, earned before passing two Core Qualifying Examinations at Ph.D. level, will not count towards M.A. or Ph.D. degree. These courses, MAT 6908, 6911, 6939 and 7912, however, can be taken by a student before passing two Core Qualifying Examinations at Ph.D. level, with an approval from the Graduate Program Director, and also from the Seminar Organizer for MAT 6939. The course work for more than one credit hour for
MAT 6939 needs an approval from the Graduate Committee.

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

Major Research Areas:

ADMISSION INFORMATION

Program Admission Requirements
Same as general university requirements plus:
1. a Bachelor’s degree or equivalent in mathematical sciences or related area
2. at least a 650 quantitative score on the GRE
3. at least a 3.5 GPA in undergraduate math courses
4. A completed math department application form
5. Statement of goals

Students with insufficient preparation in real analysis and/or abstract algebra will be required to take MAA 4211 and/or MAS 4301 before or during their first semester of study.

Program Admission Deadlines
For Teaching Assistants, International and Financial Aid applicants:
Fall Deadline: February 1
Spring Deadline: August 1

For Domestic applicants (US citizens or permanent residents) without financial aid or Teaching Assistant Applications:
Fall Deadline: June 1
Spring Deadline: October 1

DEGREE PROGRAM REQUIREMENTS

In addition to the University and College requirements, the students must fulfill the following requirements:
1. Credit Hours: A candidate must complete at least 30 credit hours in Mathematics. Specifically,
   a. The Mathematics graduate courses of 5000 level or higher, offered regularly for mathematics majors from the Mathematics department, are counted towards the 30-hour requirement.
   b. Up to 6 hours of 4000 level or higher courses, taken from our department or other departments at USF, may be counted towards the 30-hour requirement with approval by the Graduate Program Director and the Department Chairperson.

2. Completion of Sequences: A Candidate must complete two Core or Elective Sequences, at least one of which must be a Core Sequence, and receive at least a 3.0 average in each sequence.

3. Thesis or Examination Requirement: Each candidate for the M.A. degree must either be examined on a thesis or pass one of the written Core Qualifying Examinations.

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. 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.

A student who elects the exam option must pass one of the Core Qualifying Examinations at M.A. level. A student may repeat each examination once.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
MATHEMATICS

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Mathematics
Concentrations: Pure and Applied Statistics
Program Status: Active
Program Level: Doctoral
Total Minimum Hours: 90

CONTACT INFORMATION

Program Directors: Masahiko Saito (Pure/Applied)
saito@math.usf.edu
A.N.V. Rao (Statistics) – arao@chuma.cas.usf.edu
Other Contact: Natasa Jonoska,
jonoska@math.usf.edu
Phone: 813-974-2643
Fax: 813-974-2700
Email: ga@math.usf.edu
Web Address: http://www.math.usf.edu/
Mailing Address:
University of South Florida
Department of Mathematics
Mathematics Graduate Program
4202 E. Fowler Avenue, PHY114
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Mathematics at the University of South Florida, Tampa Campus, is composed of approximately thirty faculty who do research in a variety of fields, and teach courses ranging from the freshman to the doctoral level.

The Department serves as the editorial base for the international journals: Abstract and Applied Analysis and Journal of Theoretical Probability. The Center for Mathematical Services within the department provides lectures, special programs for secondary students, and in service training programs in mathematics.

Some graduate courses are organized into Core and Elective Sequences as follows:

Core Sequences:
Algebra: MAS 5107, 5311, 5312
Analysis: MAA 5306, 5307, 5616
Mathematical Statistics: STA 5326, 6326
Topology: MTG 5316, 5317

Elective Sequences:
Applied Mathematics: three courses, one from each group listed below.
(Group A) MAP 5407, 5345
(Group B) MAA 5405, MAT 5932 (MAD 4401)
(Group C) MAP 6205, MAT 6932 (Dynamical Systems II)
Combinatorics: MAD 6206, 6207
Complex Analysis: MAA 6406, 6407
Statistical Methods: STA 5166, 6167
Dynamical Systems: MAT 5932 (Dynamical Systems I), 6932 (II)
Foundations: MHF 5306, 6307
Linear Models and Multivariate Analysis: STA 6208, 6356
Nonlinear Analysis: MAP 5316, 5317
Ordinary Differential Equations: MAP 6336, MAT 5932 (Dynamical Systems I)
Partial Differential Equations: MAP 5345, 6356
Probability: STA 5446, 6447
Stochastic Processes and Time Series Analysis: STA 6206, 6876
Theory of Computing: MHF 5306, MAD 6616

For degree requirements, each course from the Elective Sequence list above counts towards only one Elective Sequence. A qualifying examination based on a Core Sequence is called a Core Qualifying Examination. The syllabus for each examination is available from the
Department. Core Qualifying Examinations are offered in January, May and September. A student who passes a Core Qualifying Examination at Ph.D. level will be considered to have completed the corresponding Core Sequence. Credit hours of MAT 6908 Independent Study, MAT 6939 Graduate Seminar, and MAT 6911 / 7912 Directed Research, earned before passing two Core Qualifying Examinations at Ph.D. level, do not count towards M.A. or Ph.D. degree. These courses, MAT 6908, 6911, 6939 and 7912, however, can be taken by a student before passing two Core Qualifying Examinations at Ph.D. level, with an approval from the Graduate Program Director, and also from the Seminar Organizer for MAT 6939. The course work for more than one credit hour for MAT 6939 needs an approval from the Graduate Committee.

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

Major Research Areas:

Admission Information
In addition to the M.A. program requirements, entrants to the Ph.D. Program must have a Master’s degree in Mathematics or a strong enough background as determined by the Graduate Admissions Committee, and three letters of recommendation, at least two of which from mathematicians indicating an aptitude for doctoral study. See list below.

Program Admission Requirements
Same as general university requirements plus:
1. a Bachelor’s degree or equivalent in mathematical sciences or related area
2. at least a 650 quantitative score on the GRE
3. at least a 3.5 GPA in graduate math courses
4. three letters of recommendation (two of which should be from college level math professors)
5. a completed math department application form
6. a statement of goals

Program Admission Deadlines
For Teaching Assistants, International and Financial Aid applicants:
Fall Deadline: February 1
Spring Deadline: August 1

For Domestic applicants (US citizens or permanent residents) without financial aid or Teaching Assistant Applications):
Fall Deadline: June 1
Spring Deadline: October 1

Degree Program Requirements
In addition to the University and College requirements, the students must fulfill the following requirements.

1. Core Qualifying Examinations: The student is required to pass two of the Core Qualifying Examinations at Ph.D. Level. A student is expected to complete both within 13 months after entering the Ph.D. program unless an extension is granted by the Mathematics Graduate committee. A student may repeat each examination once.

2. Elective Qualifying Examination: After passing two Core Qualifying Examinations, the student will select a Dissertation Advisor and a Doctoral Committee will be appointed by the Department Chairperson. The Committee will determine a course of study leading to the written Elective Qualifying Examination, which may be based on one of the Elective Sequences above, possibly supplemented by other material. The syllabus for this examination, and the names of two examiners from the Faculty, must be approved by the Mathematics Graduate Program Director at least one semester before the examination is to take place. A student is expected to complete all three examinations within 25 months after entering the Ph.D. program unless an extension is granted by the Mathematics Graduate Committee. A student may repeat each examination once. The student will be admitted to candidacy after completion of the above two requirements.

3. Completion of Four Sequences: The student must complete four sequences from among Core and Elective Sequences with at least a 3.0 average in each sequence.

4. Progress Evaluation: Each Spring semester after admission to candidacy, the candidate shall give an oral presentation to the Doctoral Committee of the problem(s) under investigation. The presentation may also include a discussion of partial results. The Dissertation Advisor shall submit to the Department Chairperson a written report of the presentation.

5. Dissertation: Students admitted to candidacy are required to take at least 16 hours in MAT 7980 Doctoral Dissertation, 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 dissertation is expected to contain new mathematical results which are worthy of publication. Research towards the dissertation typically forms the major part of the work required for the Ph.D. in Mathematics.

6. External Examiner Requirement and the Final Oral Examination: The Final Oral Examination is also called the Dissertation Defense. The Department Chairperson will select an external examiner from a list provided by the Dissertation Advisor; the examiner should be both expert in the field and familiar with the standards expected for a Ph.D. A copy of the dissertation must be sent to the external examiner for review at least four weeks in advance of the Final Oral Examination. The reviewer’s report shall be provided to the Doctoral Committee before the Final Oral Examination. Alternatively, referees’ reports on papers based on the dissertation and accepted for publication may be substituted in lieu of the external examiner requirement.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
MICROBIOLOGY

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Microbiology
Concentrations:
- Conservation Biology
- Coastal Marine Biology
- Molecular-Cellular Biology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Henry R. Mushinsky
Other Contact: n/a
Phone: 813-974-3250
Fax: 813-974-3263
Email: csmith2@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/biology/

Mailing Address:
University of South Florida
Biology
Microbiology Program
4202 E. Fowler Ave, SCA110
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Biology was the first to offer the Ph.D. degree at the University of South Florida. The department is located in two modern, well-equipped buildings. Most research in cell and molecular, and microbiology is done by faculty housed in the Bio-Science facility, and most of the research in organismal biology and ecology is conducted by faculty housed in the Science Center. In addition, the department has common research facilities in two nearby buildings.

One theme that runs throughout the department is that of cooperation. Within the Department, faculty and graduate students often work together on broad ranging research projects that bring together many of the traditionally separate areas of biology. Many of the Department’s cell and molecular biologists and ecologists are involved in cooperative research with their colleagues in Public Health, Nursing, and Medicine. Likewise, many of the Department’s organismal biologists and ecologists are involved in cooperative research with colleagues in the Departments of Geology, Psychology, Geography, Marine Science, and the Environmental Science and Policy program. Often biology graduate students have faculty members from these other areas of USF as members of their graduate committees.

Because of the many undergraduate courses that require hands-on experimental laboratories, the Department supports many graduate students as Teaching Assistants. The Department values high quality teaching at all levels of instruction. Research Assistant positions also are available to support research with specific faculty members.

The departmental graduate director, or an assigned mentor, serves as the student’s advisor until the student makes arrangements for a faculty member to serve as major professor. The selection of a major professor includes acceptance of the student by the faculty member. Applicants are strongly urged to contact faculty conducting research in the student’s area of interest.

For all master’s students, the major professor and at least two additional faculty constitute the student’s supervisory committee, the major professor and at least one of the committee members must be from the Biology Department. For all Ph.D. students the major professor and at least three additional faculty constitute the student’s supervisory committee. The major professor and three members must be from the Department of Biology. Supervisory committees must be established within two semesters after matriculation. Failure to do so will be cause for dismissal.

The Departmental Chairman, the College Dean and the Dean of the Graduate School 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 or dissertation, the student shall enroll for two hours of research credit each semester (other than summer semester), until eligible to enroll in thesis or dissertation credits. No student shall be required to enroll for more than nine graduate hours per semester.

A student must be registered for an appropriate load (in no case fewer than two 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, or Dissertation 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 or Dissertation: Doctoral until a Supervisory Committee has been formed. A student who enrolls in courses entitled Thesis: Master’s or Dissertation: Doctoral but does not submit a thesis or dissertation will not be certified for graduation.

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

ADMISSION INFORMATION

Program Admission Requirements

1) Must have 3.0 GPA last 60 hours of B.S. degree
2) Must have 1100 on GRE (Verbal and quantitative) + Biology Area Subject Exam.
3) All international students are required to submit the TOEFL test. Non-native English speaking graduate students must score at least 570 on the TOEFL and at least 50 on the TSE to be eligible for a teaching assistantship.
4) Acceptance by a faculty member in the Biology Dept. is MANDATORY. We encourage students to contact faculty via email to indicate an interest in the research being conducted in their laboratory. We will make every effort to pair potential graduate students with appropriate faculty, however, your direct contact with individual faculty is expected.
5) It is expected that candidates for the M.S./Ph.D. degrees will have completed courses equivalent to those required for the B.S. in Biology at U.S.F.

Program Admission Deadlines

U.S. Students:
Fall Deadlines: February 1 and June 1
Spring Deadlines: October 1

International Students:
Fall Deadline: January 2
Spring Deadline: June 1

Application must be completed by February 1 by applicants who wish to be considered for assistantships.

Materials necessary for a complete application are listed below:

The following items should be submitted in the envelope provided to:

Biology Graduate Office
University of South Florida
4202 E. Fowler ave – SCA110
Tampa, FL 33620-5150

7) Completed application form with a non-refundable $30 application fee. Send only checks or money order made payable to the “University of South Florida.” The application and fee are valid for one year. Applications sent without the $30 application fee will not be processed. There are no waivers or deferments granted for this fee. PLACE CHECK IN THE ENVELOPE PROVIDED, SEAL ENVELOPE AND SIGN SEAL.
8) Two official transcripts in a sealed envelope from each post-secondary institution. Transcripts of work completed at USF will be secured by the Office of Admissions. Hence you need only to secure transcripts from other institutions for your application packet.
9) Three letters of recommendation from faculty in sealed envelopes (on their university letterhead) with the envelope seal signed by the recommender. Students must also complete the enclosed Student Recommendation Form and submit it to the recommenders. If recommenders choose, they may send letters directly to the Office of Graduate Admissions.
10) 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 biology faculty members. In your essay please list 2-3 biology faculty members that you would like to have review your file. Acceptance into the biology graduate program requires the identification of specific faculty who are willing to direct your research.

11) Application for teaching assistantship. Failure to return this form will result in you not being considered for a teaching position. Please attach resume to Teaching Assistant Application.

OFFICIAL test scores must be sent to USF directly from the testing agency. The University of South Florida’s 4-Digit Institution Code is: 5828

12) Official GRE scores. This exam must have been taken within the last five years. If you have confirmation from ETS that scores have been sent to USF (USF must be listed), you may include a xerox copy of your confirmation notice in your application packet.
DEGREE PROGRAM REQUIREMENTS

The M.S. degree requires completion of
1. structured coursework
2. a research thesis or a review paper
3. passing a comprehensive examination.

The Master’s Degree Requirements should be completed in two to three years. The Department of Biology requires that all graduate work applied toward the completion of degree requirements be completed within a five year period after matriculation. Master’s students are encouraged to gain teaching experience in at least one undergraduate course in the department. Thesis research should be publishable and students are encouraged to publish their findings. Overall degree requirements for the Master of Science (M.S.) are as follows:

1. Credit hour requirement: a total of 30 semester hour credits beyond the Baccalaureate Degree is required.

2. No minimum requirement for structured course work exists. The graduate student, major professor and student’s graduate committee will establish the specific course requirement for each graduate student

3. A minimum of six thesis research credit hours is required.

4. Submission of a thesis proposal and approval by the major professor, graduate committee and graduate director

5. Successful completion of the oral examination. The exam should be taken at the end of the first year, or early in the second year of study. The examination is administered and evaluated by the student’s graduate committee.

6. 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.

7. Submission of an acceptable thesis.

8. Presentation of the thesis seminar (BSC 6935) and successful defense of the thesis.

Non-Thesis - For students enrolled in the non-thesis program, a 30-hour minimum is required at the 5000-6000 level; 26 hours must be in formally structured courses, 16 hours must be at the 6000 level; 15 structured hours must be in Biology. A review paper of a topic approved by the supervisory committee is required.

Comprehensive Examination.
A final comprehensive 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. Thesis students must take the examination at least one semester before the thesis is presented. Any graduate work counted toward the requirement for the M.S. degree must be completed within 5 years after matriculation.

All Master’s Degree students must present a seminar to the Department of Biology 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.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
PHILOSOPHY

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Philosophy
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Martin Schonfeld
Other Contact: Darlene Corcoran
Phone: 813-974-2447
Fax: 813-974-5914
Email: dcorcora@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/philosophy/index.html

Mailing Address:
University of South Florida
Department of Philosophy
Philosophy Program
4202 E. Fowler Avenue, FAO 226
Tampa, FL 33620

PROGRAM INFORMATION

Contact program for information or visit http://www.cas.usf.edu/philosophy/index.html

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

Major Research Areas:
Aesthetics
Analytic Philosophy
Ancient Greek Philosophy
Continental Philosophy
Epistemology
Ethics & Contemporary Moral Philosophy
Modern Philosophy
Philosophy of Mind
Philosophy of Science
Social & Political Philosophy
19th and 20th Century Philosophy

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus the following documents must be submitted:
1. statement of purpose
2. 3 letters of recommendation
3. A 10 page writing sample

In order to be competitive, applicants should submit GRE general test scores of 1250 and an analytic score of 4.0.

Program Admission Deadlines
U.S. Students
Fall Deadline: April 15
Spring Deadline: October 15
Financial Assistance: February 1

International Students
Fall Deadline: March 1
Spring Deadline: August 1
Financial Assistance: January 2

DEGREE PROGRAM REQUIREMENTS

Once admitted, students must successfully complete at least 30 credit hours in accordance with the following requirements:
1. Proseminar I (6 credit hours) and Proseminar II (6 credit hours)

2. A course in Symbolic Logic (3 credit hours) with a grade of “B” or better

3. Coursework in the History of Philosophy from the list appearing in “Areas of Study and Coursework” (6 credit hours)

4. Coursework in Metaphysics, Epistemology, and Logic from the list appearing in “Areas of Study and Coursework” (3 credit hours)

5. A course in Value Theory from the list appearing in “Areas of Study and Coursework” (3 credit hours)
6. Coursework or an examination demonstrating reading proficiency in one of the following languages: ancient Greek, Latin, French, German, or a substitute approved by the Director of Graduate Studies and the Department Chair

7. Thesis (3 credit hours) OR A comprehensive examination on a required list of readings necessary constructed by the candidate and a committee of examiners

Areas of Study and Coursework
Students will be required to meet the distribution of credit hours described below. While many of the courses could fall into two or more categories, the categories as stated should provide a comprehensive training in philosophy. When there is good reason to approve substitutions for the courses listed, the Director of Graduate Studies has the discretion to approve substitutions on a case-by-case basis. The Department Chair must also approve any substitutions.

History of Philosophy
(A minimum of six credit hours required for the M.A., courses must come from two different categories; a minimum of 12 credit hours required for the Ph.D. with at least one from each of the four categories)

I. Ancient and Medieval
   a. Plato
   b. Aristotle
   c. Topics in Ancient/Medieval Philosophy

II. Early Modern Philosophy
   a. Rationalists
   b. Empiricists
   c. Topics in Early Modern Philosophy

III. Kant

IV. 19th and 20th Century Philosophy
   a. Continental I: Phenomenology to Hermeneutics
   b. Continental II: Political Theory and Continental Social Theory

   e. Continental III: From Structuralism to Deconstruction
   d. Marxism
   e. Analytic Philosophy
   f. Topics in Twentieth Century Philosophy

Metaphysics, Epistemology, and Logic
(A minimum of three credit hours required for the M.A.; a minimum of nine credit hours required for the Ph.D.)

I. Seminar in Metaphysics
II. Seminar in Epistemology
III. Seminar in the Philosophy of Natural Science (including Math)
IV. Seminar in the Philosophy of Social Science
V. Seminar in Logic
VI. Modal Logic
VII. Philosophy of Language
VIII. Philosophy of Mind
IX. Topics in Contemporary Philosophy (if topic is in the area of metaphysics, epistemology, and logic)

Value Theory
A minimum of 3 credit hours required for the M.A.; a minimum of 9 credit hours required for the Ph.D. Only one required value theory class may come from category II

I. General Topics
   a. Seminar in Ethics
   b. Seminar in Social Philosophy
   c. Seminar in Political Philosophy
   d. Seminar in Aesthetics
   e. Topics in Feminist Philosophy

II. Specific Topics
   a. Seminar in the Philosophy of Religion
   b. Seminar in the Philosophy of Law
   c. Seminar in the Philosophy of History

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
PHILOSOPHY

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Philosophy
Concentrations: n/a
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Martin Schonfeld
Other Contact: Darlene Corcoran
Phone: 813-974-2447
Fax: 813-974-5914
Email: dcorcora@chnul1.cas.usf.edu
Web Address: http://www.cas.usf.edu/philosophy/index.html
Mailing Address:
University of South Florida
Department of Philosophy
Philosophy Program
4202 E. Fowler Avenue, FAO 226
Tampa, FL 33620

PROGRAM INFORMATION

Contact program for information or visit http://www.cas.usf.edu/philosophy/index.html

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

Major Research Areas:
- Aesthetics
- Analytic Philosophy
- Ancient Greek Philosophy
- Continental Philosophy
- Epistemology
- Ethics and Contemporary Moral Philosophy
- Modern Philosophy
- Philosophy of Mind
- Philosophy of Science
- Social & Political Philosophy
- 19th and 20th Century Philosophy

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus the following documents must be submitted:
1. statement of purpose
2. three letters of recommendation
3. A ten-page writing sample

In order to be competitive, applicants should submit GRE general test scores of 1250 and an analytic score of 4.0.

DEGREE PROGRAM REQUIREMENTS

Once admitted, students must successfully complete at least 90 credit hours in accordance with the following requirements:
1. Proseminar I (6 credit hours) and Proseminar II (6 credit hours)
2. Course in Symbolic Logic (3 credit hours) with a grade of “B” or better
3. Coursework in the History of Philosophy from the list appearing in “Areas of Study and Coursework” (12 credit hours)
4. Coursework in Metaphysics, Epistemology, and Logic from the list appearing in “Areas of Study and Coursework” (9 credit hours)
5. Coursework in Value Theory from the list appearing in “Areas of Study and Coursework” (9 credit hours)
6. Coursework or an examination demonstrating reading proficiency in two of the following languages: ancient Greek, Latin, French, German. A substitution for one of these languages may be approved by the Director of Graduate Studies and the Department Chair

7. 12 credit hours in area(s) of doctoral research

8. A comprehensive examination on a required list of readings constructed by the candidate and a committee of examiners

9. A written prospectus for the dissertation and an oral defense of this prospectus

10. A written dissertation and an oral defense of this dissertation

Areas of Study and Coursework
Students will be required to meet the distribution of credit hours described below. While many of the courses could fall into two or more categories, the categories as stated should provide a comprehensive training in philosophy. When there is good reason to approve substitutions for the courses listed, the Director of Graduate Studies has the discretion to approve substitutions on a case-by-case basis. The Department Chair must also approve any substitutions.

History of Philosophy
(A minimum of 6 credit hours required for the M.A., courses must come from two different categories; a minimum of 12 credit hours required for the Ph.D. with at least one from each of the four categories)

I. Ancient and Medieval
   a. Plato
   b. Aristotle
   c. Topics in Ancient/Medieval Philosophy

II. Early Modern Philosophy
   a. Rationalists
   b. Empiricists
   c. Topics in Early Modern Philosophy

III. Kant

IV. 19th and 20th Century Philosophy
   a. Continental I: Phenomenology to Hermeneutics
   b. Continental II: Political Theory and Continental Social Theory
   c. Continental III: From Structuralism to Deconstruction
   d. Marxism
   e. Analytic Philosophy
   f. Topics in Twentieth Century Philosophy

Metaphysics, Epistemology, and Logic
(A minimum of three credit hours required for the M.A.; a minimum of nine credit hours required for the Ph.D.)

I. Seminar in Metaphysics
II. Seminar in Epistemology
III. Seminar in the Philosophy of Natural Science (including Math)
IV. Seminar in the Philosophy of Social Science
V. Seminar in Logic
VI. Modal Logic
VII. Philosophy of Language
VIII. Philosophy of Mind
IX. Topics in Contemporary Philosophy (if topic is in the area of metaphysics, epistemology, and logic)

Value Theory
A minimum of three credit hours required for the M.A.; a minimum of nine credit hours required for the Ph.D. Only one required value theory class may come from category II)

I. General Topics
   a. Seminar in Ethics
   b. Seminar in Social Philosophy
   c. Seminar in Political Philosophy
   d. Seminar in Aesthetics
   e. Topics in Feminist Philosophy

II. Specific Topics
   a. Seminar in the Philosophy of Religion
   b. Seminar in the Philosophy of Law
   c. Seminar in the Philosophy of History

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
PHYSICS

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Physics
Concentrations: Atmospheric Physics
Atomic and Molecular Physics
Laser Physics
Materials Physics
Medical Physics
Optical Physics
Semiconductor Physics
Solid State Physics

Also offered as: Joint M.S. Degree – Physics/Engineering Science
Interdisciplinary arrangement - Ph.D. in Engineering Science

Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Dale Johnson
Other Contact: n/a
Phone: 813-974-2789
Fax: 813-974-5813
Email: switanac@cas.usf.edu
Web Address: http://www.cas.usf.edu/physics/

PROGRAM INFORMATION

Contact program for information.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus three letters of recommendation and a statement of purpose.

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

Students admitted to the graduate program 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.

Thesis
The student desiring the M.S. degree with a thesis is required to take a minimum of 30 credits, no more than six (6) of which may be for PHY 6911, PHY 6935, and PHY 6971. Of these 30 credits, 16 must be in physics courses numbered 6000 or above. The student must present a thesis acceptable to the supervisory committee covering research work amounting to a minimum of six (6) units of credit in PHY 6971.

Non-Thesis
The student desiring the M.S. degree without a thesis is required to take a minimum of 30 credits, no more than three of which may be for PHY 6909, PHY 6911, PHY 6935, and PHY 6971. Of these 30 credits, 16 must be in physics courses numbered 6000 or above. The student must pass a comprehensive examination.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
PHYSICS / ENGINEERING SCIENCE

Dual Degree (Joint degree)
Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Physics/Engineering Science
Concentrations: n/a
Also offered as: Joint Ph.D. Degree – Physics/Engineering Science
Interdisciplinary arrangement - Ph.D. in Engineering Science
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Dale Johnson
Phone: 813-974-2789
Fax: 813-974-5813
Email: switanac@cas.usf.edu
Web Address: http://www.cas.usf.edu/physics/

PROGRAM INFORMATION

Under an interdisciplinary arrangement with the College of Arts and Sciences and the College of Engineering, the physics graduate students may obtain a Ph.D. in Engineering under the dissertation direction of a Physics Director of Graduate Studies.

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

ADMISSION INFORMATION

Program Admission Requirements
See listings for Physics and Engineering Science.

Program Admission Deadlines
See deadlines for Physics and for Engineering Science.

DEGREE PROGRAM REQUIREMENTS

Contact the program for information.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
# PHYSICS / ENGINEERING SCIENCE

**Dual Degree (Joint degree)**
Doctor of Philosophy (Ph.D.)

## DEGREE INFORMATION

<table>
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<tr>
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## CONTACT INFORMATION

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<th>Dale Johnson</th>
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<tr>
<td>Other Contact:</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-2789</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-5813</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:switanac@cas.usf.edu">switanac@cas.usf.edu</a></td>
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<tr>
<td>Web Address:</td>
<td><a href="http://www.cas.usf.edu/physics/">http://www.cas.usf.edu/physics/</a></td>
</tr>
</tbody>
</table>

Mailing Address:
University of South Florida
Department of Physics
Physics Program
4202 E. Fowler Avenue, PHY114
Tampa, FL 33620

## PROGRAM INFORMATION

Under an interdisciplinary arrangement with the College of Arts and Sciences and the College of Engineering, the physics graduate students may obtain a Ph.D. in Engineering under the dissertation direction of a Physics Director of Graduate Studies.

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

## ADMISSION INFORMATION

Program Admission Requirements
See listings for Physics and Engineering Science.

Program Admission Deadlines
See deadlines for Physics and for Engineering Science
POLITICAL SCIENCE

Master of Arts (M.A.)

DEGREE INFORMATION

<table>
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<th>Degree Offered:</th>
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<td>Degree Program:</td>
<td>Political Science</td>
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CONTACT INFORMATION

Program Director: Steven Tauber
Other Contact: Phone: 813-974-2384
Fax: 813-974-0832
Email: stauber@cas.usf.edu
Web Address: http://www.cas.usf.edu/political_science
Mailing Address:
University of South Florida
Government and International Affairs
Political Science Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The graduate program 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. For instructional purposes, the graduate curriculum in Political Science has been divided into three fields:

Field 1 Comparative Government and Politics
(courses with a CPO prefix)

Field 2 International Relations
(courses with an INR prefix)

Field 3 Public Policy
(courses with a PUP, POS, POT, URP, or PAD prefix)

Students select one field as a major area and another field as a minor area. They must consult with the graduate coordinator to map out a course plan.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus:
1. three (3) letters of recommendation
2. and a 500 word statement of purpose
3. must have an undergraduate background in political science.

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

A minimum of 36 hours of graduate level course work distributed according to the following five categories:

1. Required Research Methods Sequence (6 hours):
   POS 6735 (3), POS 6736 (3)

2. Major field (15 hours): Core course in major area (either CPO 6901, INR 6007 or PUP 6007, and 4 additional courses.

3. Minor field (9 hours): Core course in major area (either CPO 6991, INR 6007 or PUP 6007, and 2 additional courses.


To earn an MA in Political Science students are required to complete a thesis that provides 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 program 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.
Comprehensive Examination - After finishing course work each student must pass a written comprehensive examination covering his or her major and minor fields. These examinations must be taken before completion of the thesis and thesis defense. Students cannot enroll in thesis hours before the semester they have signed up to take their exams.

Course Listings:

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Students may take a maximum of 3 hours of Independent Study (POS 6909) and 3 hours maximum of Directed Research (POS 6919)

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
PSYCHOLOGY

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Psychology
Concentrations: Clinical Psychology, Cognitive and Neural Sciences, Industrial-Organizational Psychology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Michael T. Brannick
Other Contact: Phone: 813-974-2492
Fax: 813-974-4617
Email: mbrannic@luna.cas.usf.edu
Web Address: http://www.cas.usf.edu/psychology/

Mailing Address:
University of South Florida
Department of Psychology
Psychology Program
4202 E. Fowler Avenue, PCD4118G
Tampa, FL 33620

PROGRAM INFORMATION

The graduate faculty of the Psychology Department is divided into three broad concentrations: Clinical, Cognitive and Neural Sciences, and Industrial-Organizational. Each of these areas offer Ph.D. level training in the following areas of special expertise.


Cognitive and Neural Sciences – Behavioral Neuroscience, Cognition, Judgment and Decision Making, Language Development, Memory, Perception. In addition, with faculty in Communication Sciences and Disorders, the Cognitive and Neural Sciences faculty offer a specialization in Speech/Language/Hearing Sciences.


Accreditation:
Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools; Clinical Program: American Psychological Association, and the Academy of Psychological Clinical Science.

ADMISSION INFORMATION

Program Admission Requirements
Not a terminal MA. See Ph.D. Requirements.

DEGREE PROGRAM REQUIREMENTS

The Department of Psychology does not admit students seeking a terminal M.A. degree in Psychology. The student must complete 30 hours of graduate Psychology courses and all area requirements. All students are required to complete two quantitative methods courses (PSY 6217A, PSY 6217B). In addition, the student must complete core courses required by their program areas. The student must successfully pass an oral examination.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm
PSYCHOLOGY

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Psychology
Concentrations: Clinical Psychology, Cognitive and Neural Sciences, Industrial-Organizational Psychology
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Michael T. Brannick
Other Contact: Phone: 813-974-2492
Fax: 813-974-4617
Email: mbrannic@luna.cas.usf.edu
Web Address: http://www.cas.usf.edu/psychology/

Mailing Address:
University of South Florida
Department of Psychology
Psychology Program
4202 E. Fowler Avenue, PCD4118G
Tampa, FL 33620

PROGRAM INFORMATION

The graduate faculty of the Psychology Department is divided into three broad concentrations: Clinical, Cognitive and Neural Sciences, and Industrial-Organizational. Each of these areas offer Ph.D. level training in the following areas of special expertise.

Clinical –

Cognitive and Neural Sciences –
Behavioral Neuroscience, Cognition, Judgment and Decision Making, Language Development, Memory, Perception. 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 –

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; Clinical Program: American Psychological Association, and the Academy of Psychological Clinical Science.

ADMISSION INFORMATION

Program Admission Requirements
University requirements plus a personal goals statement and three letters of recommendation.

Program Admission Deadlines
Clinical: December 15
Cognitive and Neural Sciences: January 15
Industrial-Organization: January 15

DEGREE PROGRAM REQUIREMENTS

The Ph.D. in Psychology is offered in the fields of Clinical, Cognitive and Neural Sciences, and Industrial/Organizational Psychology.

Advanced doctoral-level requirements are determined by the student and the Ph.D. committee. In addition to the completion of all M.A. requirements in Psychology or its equivalent:

1) The Cognitive and Neural Sciences and Industrial-Organization programs require the student to take a graduate minor. A minor program of study, composed of work done outside the student’s field of concentration and including a minimum of two appropriate graduate level courses, is required by the department for admission to Ph.D. candidacy. The minor must be approved by the student’s Ph.D. committee and the Department of Psychology.

2) Successful completion of a comprehensive examination or major area area paper.
3) A one-year internship in an approved clinical facility for Ph.D. Students in the Clinical Psychology Program.

4) Six months of internship in approved industrial or community agencies as available for Ph.D. Students in the Industrial/Organizational Psychology Program.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
PUBLIC ADMINISTRATION

Master of Public Administration (M.P.A.)

DEGREE INFORMATION

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CONTACT INFORMATION

| Program Director:       | Mohsen Milani                            |
| Other Contact:          |                                          |
| Phone:                  | 813-974-2510                             |
| Fax:                    | 813-974-0804                             |
| Email:                  | Milani@cas.usf.edu                       |
| Web Address:            | http://www.cas.usf.edu/pad/index.html    |

PROGRAM INFORMATION

The Public Administration Program offers a multi-disciplinary course of study leading to the Master of Public Administration (M.P.A.). The M.P.A. degree is designed primarily to prepare students for successful leadership roles and management careers in the public (i.e., governmental and quasi-governmental organizations) and non-profit 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. Additionally the M.P.A. degree prepares individuals for further academic study leading to a doctorate in Public Administration, a Ph.D. in Public Policy and Administration, as well as a variety of other disciplines.

Those employed in public management positions may wish to pursue the M.P.A. in order to broaden educational backgrounds to prepare for increased job responsibilities, or to change career paths. Such in-service students currently make up the majority of the M.P.A. student body.

The Public Administration Program also offers courses of study leading to a Graduate Certificate in Public Management (G.C.P.M.) and Graduate Certificate in Nonprofit Management (G.C.N.M.). These programs are designed for individuals who wish to acquire knowledge of public and nonprofit management theory and practices, but who do not find it necessary or feasible to pursue the M.P.A. degree. The M.P.A. Program also serves pre-service students who have recently completed a bachelor’s degree, who wish to gain entry to a professional career track. Students admitted to the M.P.A. are not eligible for the Graduate Certificate in Public Management.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; the National Association of Schools of Public Affairs and Administration (NASPAA).

ADMISSION INFORMATION

Program Admission Requirements

Admission decisions to the M.P.A. 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), performance as an undergraduate student, life experience/work, and letters of recommendation. Specific criteria are:

1. Completion of a Bachelor's degree from a regionally accredited university.

2. The University of South Florida requires a 3.00 (B) grade point average (calculated using grades earned for all coursework completed during junior and senior years of undergraduate study), and GRE scores of 1000 or better (combined verbal and quantitative sections only; the analytical section is not considered by the M.P.A. Program at the University of South Florida). This provision applies to all applicants, including those who have already completed courses in the MPA curriculum. Regardless of GPA, those who score 850 or below on the GRE, are required to retake the exam.
3. Two letters of recommendation, 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.

4. The submission of a one-page career 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.

5. A statement, if applicable, describing the applicant's current and/or past managerial work experience in the public or non-profit sectors.

6. Approval by the M.P.A. Admissions Committee and, if deemed necessary, an admissions interview. Applicants lacking the background necessary for graduate study in the M.P.A. Program may be asked to take additional undergraduate courses prior to admission.

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS
The M.P.A. required curriculum is 42-51 credit hours. All students must complete a core of nine courses (27 hours) and either four or six courses (12-18 hours) in elective coursework selected in consultation with an advisor. Students with appropriately documented administrative work experience commensurate with their career goals may not be required to complete an internship in a public or nonprofit agency. However, students without practical administrative experience in a public or nonprofit sector must complete an internship (6 hours).

The number of elective courses required depends upon the exit option selected by the student. The Problem Report exit option requires four (4) elective courses, as well as registration for PAD 6909, Problem Report for three (3) hours. The Capstone course exit option requires students to take 6 elective courses, one of which will be PAD 6056, The Practice of Public Management.

At least 24 credit hours must be taken at the 6000 level. A minimum of 27 credit hours must be taken in formal, regularly scheduled classes. Courses at the 5000 level are accepted for credit toward the M.P.A. degree.

Core Courses
PAD 5700 Research Methods in Public Administration
PAD 6060 Public Administration Theory and Practice
PAD 6041 Ethics and Public Service
PAD 6227 Public Budgeting
PAD 6307 Policy Analysis, Implementation, and Program Evaluation
PAD 6417 Human Resources Management
PAD 6703 Quantitative Aids for Public Managers
PAD 6710 Public Information Management
PAD 6275 Political Economy for Public Managers

Electives (12-18 credit hours)
Each student must take 12-18 elective credit hours depending on the exit option chosen. Students should refer to the MPA website http://www.cas.usf.edu/pad/index.html for courses approved by the Program.

Internship (6 credit hours)
Pre-service students are required to complete a supervised internship (PAD 6946, Internship in Public Administration) in a governmental or non-profit organization. Internships provide students the opportunity to gain valuable experience in the public sector, thereby enhancing the academic course of study.

Internship credits must be earned while the student is in residence and before the student has completed regular course work requirements. Exceptions to this rule can only be made by the M.P.A. 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 M.P.A. Director may choose to waive the internship requirement.

Exit Requirements
Capstone Course (3 credit hours)
PAD 6056, The Practice of Public Management, is a final step before graduation. To be eligible to enroll in the capstone course, students must have completed a minimum of 39 credit hours (13 courses). This course is designed to provide the student with an opportunity to apply the knowledge and skills acquired during studies in the Public Administration Program. This course is designed to challenge students to test managerial proficiency, develop capabilities in synthesizing and integrating conceptual frameworks, and to relate these skills to real managerial situations.

OR

PAD 6909 Problem Report (3 credit hours)
The Problem Report focuses on a significant administrative/policy problem confronting a public or nonprofit manager or agency. Upon completion, the student should have demonstrated the ability to identify a problem and a set of solutions, collect and analyze relevant data, and present and defend a recommended course of action intended to solve the problem. The student is
expected to present and be prepared to defend these findings (both verbally and in writing) to a committee. This option is available only after the student has obtained faculty advisors and submitted a written proposal that complies with Problem Report requirements. Copies of Problem Report, the proposal guidelines, and expectations can be obtained from the M.P.A. Program or M.P.A. website. Students selecting this exit option must complete four elective courses. This requirement is to be completed near the end of the student’s course of study. In-service students must select a problem for study that lies outside their immediate work-related responsibilities. The Problem Report Committee shall consist of at least two M.P.A. faculty and, where appropriate, and with permission of the examination committee, a qualified person outside the M.P.A. Program. A minimum grade of “B” must be achieved on the Problem Report. Students must register for PAD 6909 Problem Report, (3 credit hours).

**Doctoral Minor in Public Administration**

Students enrolled in doctoral level courses of study in other programs (e.g., Anthropology, Psychology, Education) can, with their program’s approval, complete a doctoral minor in Public Administration.

Students should complete a minimum of four graduate public administration courses to be determined with the advice and consent of an M.P.A. faculty member or M.P.A. Director.

**COURSES**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
REHABILITATION AND MENTAL HEALTH COUNSELING

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Rehabilitation and Mental Health Counseling
Concentrations: Addictions and Substance Abuse Counseling, Marriage and Family Therapy
Also offered as: 5-year program
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Michael Richard
Other Contact: Charlotte G. Dixon
Phone: 813-974-2855
Fax: 813-974-8080
Email: rehgrad@chuma1.cas.usf.edu
Web Address: http://www.cas.usf.edu/rehab_counseling/index.html

Mailing Address:
University of South Florida
Rehabilitation and Mental Health Counseling Graduate Program
4202 E. Fowler Avenue, SOC107
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Rehabilitation and Mental Health Counseling 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). A Five-Year Program (REF) Five-Year Program (REF) is available to undergraduates with strong academic credentials, and undergraduates interested in this program should contact the department during their sophomore year. The Department offers areas of concentration: one in Addictions and Substance Abuse Counseling and a second in Marriage and Family Therapy. Each student may elect to pursue a program of specialization in either area. The Addictions and Substance Abuse counseling program is approved by the Certification Board for Addictions Professionals of Florida (CBAPF Approved Provider #179A).

The graduate program in Rehabilitation and Mental Health Counseling is fully accredited by the Council of Rehabilitation Education (CORE). Upon completion of the program, graduates are eligible to sit for the national examination to become a Certified Rehabilitation Counselor (CRC). With additional course work and 3 years’ experience, graduates are also eligible to take the examination for state licensure as a Mental Health Counselor. For a complete description of the department and its program, visit the department’s Web page at: http://www.cas.usf.edu/rehab_counseling/index.html

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

ADMISSION INFORMATION

Program Admission Requirements
Same as university requirements plus:
1. three letters of recommendation, and
2. a personal statement

Program Admission Deadlines
Fall Deadline: March 30

DEGREE PROGRAM REQUIREMENTS

The department offers both a thesis and a non-thesis program. There is no language requirement; however, a comprehensive examination is required of all students. The following 54-hour core curriculum is consistent with national certification standards for rehabilitation counselors and must be taken by all students (post-baccalaureate, five-year, thesis, and non-thesis).

RCS 5080 (3)  RCS 5020 (3)  RCS 5780 (3)
RCS 6220 (3)  RCS 6300 (3)  RCS 6407 (3)
RCS 6408(3)  RCS 6440 (3)  RCS 6740 (3)
RCS 6825 (3)  RCS 6803 (6)  RCS 5480 (3)
RCS 5450 (3)  RCS 6510 (3)  RCS 6930 (6)
RCS 5035 (3)
Non-Thesis
Students in the non-thesis program must complete a minimum of 60 hours in the Post-Baccalaureate Program (REH) and 150 hours in the Five-Year Program (REF). Electives may be taken from Rehabilitation and Mental Health Counseling offerings or from offerings outside the department with the consent of an advisor.

Thesis
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 plus a minimum of three (3) hours of RCS 6970), and no less than 150 hours in the

Five-Year Program (including 54-hour core curriculum plus three (3) hours of RCS 6970).

Additional hours to complete the minimum of 150 hours for students in the Five-Year Program may be elected from other Rehabilitation and Mental Health Counseling offerings or from related programs with the consent of the advisor. An oral defense of the thesis is required.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
RELIGIOUS STUDIES

Master of Arts (M.A.)

DEGREE INFORMATION

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CONTACT INFORMATION

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<tr>
<th>Program Director:</th>
<th>James F. Strange</th>
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<tr>
<td>Other Contact:</td>
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</tr>
<tr>
<td>Phone:</td>
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<tr>
<td>Fax:</td>
<td>813-974-1853</td>
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<tr>
<td>Email:</td>
<td><a href="mailto:strange@chuma1.cas.usf.edu">strange@chuma1.cas.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://zulu.cas.usf.edu/Rel/">http://zulu.cas.usf.edu/Rel/</a></td>
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PROGRAM INFORMATION

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, and historical contexts of religion, to develop a greater in-depth knowledge of particular religious traditions, and to acquire proficiency with a wide variety of pertinent methodologies and theoretical perspectives. This degree serves the needs of students interested in teaching or counseling. It will be of special value to those interested in pursuing a doctorate in religious studies. For those interested in pre-collegiate level teaching, a dual degree in the M.A. in Religious Studies and M.A. in Education is available.

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

Major Research Areas:

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus:
1. 3 letters of recommendation, and
2. A writing sample

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

Students select a major professor and develop a plan for completing a minimum of 36 credit hours, including a six (6) credit thesis project. 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. No more than 6 credit hours of 4000-level courses may be counted for graduate credit. There is no uniform language requirement; however, language skills may be required for particular areas of study. All students are required to demonstrate expertise in at least two religious traditions, as well as 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.

COURSES
See http://www.ugs.usf.edu/sah/sabs.cfm
## DEGREE INFORMATION

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## CONTACT INFORMATION

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<td>Other Contact:</td>
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<tr>
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<td>813-974-1845</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-1853</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:strange@chuma1.cas.usf.edu">strange@chuma1.cas.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://zulu.cas.usf.edu/Rel/">http://zulu.cas.usf.edu/Rel/</a></td>
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</tbody>
</table>

**Mailing Address:**

University of South Florida  
Religious Studies/Education  
Dual Degree Program  
4202 E. Fowler Avenue, CPR107  
Tampa, FL 33620

**INACTIVE.** Currently, no students are being admitted to this program
SECOND LANGUAGE ACQUISITION AND INSTRUCTIONAL TECHNOLOGY

Doctor of Philosophy (Ph.D.) in Second Language Acquisition and Instructional Technology

DEGREE INFORMATION

Degree Offered:  Doctor of Philosophy (Ph.D.)
Degree Program:  Second Language Acquisition and Instructional Technology (SLAIT)
Concentrations:  n/a
Program Status:  Active
Program Level:  Doctoral

Cross-listed under the College of Arts and Sciences, the College of Education and the Interdisciplinary Programs Sections.

CONTACT INFORMATION

Program Directors:  Carine Feyten, College of Education and Jeffra Flaitz, College of Arts and Sciences
Phone:  813-974-3533
Email:  feyten@usf.edu
Web Address:  http://www.coedu.usf.edu/slait

Mailing Address:  University of South Florida College of Education SLAIT Program 4202 E. Fowler Avenue, EDU162 Tampa, FL 33620

5. Interview
6. Concept Paper

Program Admission Deadlines
See website:  http://www.coedu.usf.edu/slait

DEGREE PROGRAM REQUIREMENTS

Statement of purpose; evidence demonstrating experience in computer literacy and evidence of scholarly promise; personal interview with graduate faculty; two (2) hour background assessment to assist the graduate faculty in planning your program; Master's degree; minimum GPA of 3.5 (or international equivalent); minimum score of 1000 on GRE (Combined score on Verbal and Quantitative); TOEFL score of 600 (paper-based) and 250 (computer-based) if applicable. Students must demonstrate proficiency in two languages before reaching candidacy.

Program of Study:  75 credit hours - core courses (45-46 semester hours); electives 9-12 semester hours; dissertation (18 semester hours)

COURSES
See  http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

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.
SOCIAL WORK

Master of Social Work (M.S.W.)

DEGREE INFORMATION

Degree Offered: 
Master of Social Work (M.S.W.)

Degree Program: 
Social Work

Concentrations: 
n/a

Also offered as: 
Dual Degree – M.S.W./MPH

Program Status: 
Active

Program Level: 
Masters

CONTACT INFORMATION

Program Director: 
Anne Strozier

Other Contact: 
Marsha Marley

Phone: 
813-974-2063

Fax: 
813-974-4675

Email: 
sokoffic@cas.usf.edu

Web Address: 
http://www.cas.usf.edu/social_work.index.html

Mailing Address: 
University of South Florida
School of Social Work
Social Work Program
4202 E. Fowler Avenue, MGY132
Tampa, FL 33620

PROGRAM INFORMATION

The School of Social Work offers a program leading to a Master of Social Work (M.S.W.) degree. The program is fully accredited by the Council on Social Work Education. A dual-degree program is available with Public Health/Maternal and Child Health.

The primary objective of the program is preparation of the graduate for professional social work practice through acquisition of specialized knowledge and skills necessary for clinical practice with individuals, families, and groups. The secondary objectives of the M.S.W. program are:

1. to prepare students academically for pursuit of doctoral education in social work or related human service disciplines or professions;

2. to contribute to the needed supply of professionally educated clinical social workers in the Tampa Bay area, the state, the region, and the nation.

The M.S.W. program offers a specialized course of study in direct clinical practice. The program offers students a core curriculum, plus electives, and a supervised field experience designed to produce professionals with individual, family, and group practice skills. The M.S.W. program is designed to produce specific competencies for clinical practice. Graduates of the M.S.W. program should demonstrate:

1. practice competency in relationship skills;

2. knowledge of the interrelationships in the biological, psychological, and sociocultural factors in human life, including the impact of disease, injury, and emotional distress and their implications for social work practice;

3. skill in methods of scientific inquiry for the purpose of advancing professional knowledge and practice;

4. basic skill in the application of a range of social work treatment methodologies for the purpose of differential diagnosis and intervention;

5. practice competency in applying a biopsychosocial approach to the assessment of human problems;

6. practice competency in applying a biopsychosocial approach to treatment of human problems through individual, family, and group modalities;

7. a basic knowledge of managerial processes in social services, including program planning, personnel management, finance, and evaluation.

The M.S.W. program places great emphasis on standards of professional behavior and ethics in the practice of social work. Entrance into the M.S.W. program does not guarantee graduation from the program. Students admitted to the M.S.W. program must maintain a minimum GPA of 3.0, in all social work courses, with no grade below “C” 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 program. Courses with grades below “C” must be repeated before progressing to the next sequence. Students must pass the comprehensive
Students may pursue the M.S.W. program on either a full- or part-time basis. Both programs consist of 60 semester hours of study. Students should check directly with the School of Social Work for applications and timelines. The full-time program takes four semesters to complete; the part-time program lasts for 10 semesters. Students with recently earned B.S.W. degrees from programs accredited by the Council on Social Work Education may apply for advanced standing and be exempt from up to 12 hours of foundation coursework, thus enabling them to graduate with 48 credit hours. Both the full- and part-time programs are heavily sequenced and students must stay in sequence. All students must obtain professional liability insurance prior to enrollment in field.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus:
1. School of Social Work Application
2. Three letters of recommendation
3. 750 word biographical sketch
4. Liberal arts pre-requisites
5. Interview may be required; experience in the field preferred.

Program Admission Deadlines
Full-time program:
Fall Deadline: February 15
Fall Admission only

Part-time program:
Tri-ennial admissions cycle. Contact School for further information.

DEGREE PROGRAM REQUIREMENTS

Program Requirements (non-B.S.W. students)
A. Human Behavior and Social Environment Courses -
   SOW 6105 (3)    SOW 6114 (3)
   SOW 6124 (3)    SOW 6126 (2)

B. Social Work Practice Courses -
   SOW 6342 (3)    SOW 6305 (3)
   SOW 6348 (2)    SOW 6362 (4)
   SOW 6368 (3)    SOW 6375 (3)

C. Policy and Services Courses -
   SOW 6235 (3)    SOW 6236 (3)

D. Social Work Research Courses -
   SOW 6405 (3)    SOW 6425 (2)
   SOW 6426 (1)    SOW 6427 (1)

E. Supervised Field Experience
   For full-time students:
   SOW 6534 (4)    SOW 6535 (4)    SOW 6536 (4)
   For part-time students:
   SOW 6553 (1)    SOW 6545 (2)    SOW 6557 (2)
   SOW 6559 (2)    SOW 6554 (1)    SOW 6556 (2)
   SOW 6558 (2)

F. Additional Requirements:
   Elective hours (6)
   All electives must be approved.

Summary
   Foundations Courses  12 hours
   Advanced Courses     29 hours
   Field Courses         12 hours
   Electives             6 hours
   Total                 60 hours

Program Requirements (B.S.W. students eligible for Advanced Standing)
As space is available, students qualifying for admission with advanced standing can elect to begin coursework in either spring or summer semester.

A. Human Behavior and Social Environment Courses -
   SOW 6114 (3)    SOW 6124 (3)    SOW 6126 (2)

B. Social Work Practice Courses -
   SOW 6342 (3)    SOW 6348 (2)    SOW 6368 (3)
   SOW 6375 (3)

C. Policy and Service Courses -
   SOW 6236 (3)

D. Social Work Research Courses -
   SOW 6425 (2)    SOW 6426 (1)    SOW 6427 (1)

E. Supervised Field Experience
   for full-time students:
   SOW 6534 (4)    SOW 6535 (4)    SOW 6536 (4)
   for part-time students:
   SOW 6553 (1)    SOW 6555 (2)    SOW 6557 (2)
   SOW 6559 (2)    SOW 6554 (1)    SOW 6556 (2)
   SOW 6558 (2)

F. Additional Requirements:
   Elective hours (6)
   All electives must be approved.

Summary
   Advanced Courses     30 hours
   Field Courses         12 hours
   Electives             6 hours
   Total                 48 hours

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm
SOCIAL WORK

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Social Work
Concentrations: n/a
Also offered as: M.S.W.
Dual Degree - M.S.W./MPH
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: William Rowe
Other Contact: Marsha Marley
Phone: 813-974-2063
Fax: 813-974-4675
Email: sokoffic@cas.usf.edu
Web Address:
Mailing Address: University of South Florida
Social Work
Ph.D. Social Work Program
4202 E. Fowler Avenue, MGY132
Tampa, FL 33620

PROGRAM INFORMATION:

The School of Social Work offers a program leading to a Ph.D. in Social Work. The program is projected to begin in January 2005.

The Ph.D. 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 clinical practice and to provide leadership in the development of clinical services for diverse, vulnerable and underserved populations.

The Ph.D. program, requiring 60 hours of study, is offered via a nontraditional model of delivery. During the first three years, students complete thirty-six hours of course work in nine semesters. These courses are offered in intensive weekend sessions during the fall and spring semesters and in concentrated three-week summer sessions. Dissertation work (24 hours) is taken during the course of years four and five.

This doctoral program allows students to attend course work while maintaining full-time employment commitments.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus:

1. Bachelor’s degree from an accredited university or college; undergraduate G.P.A. of 3.0 in last two (2) years of undergraduate work;

2. Master’s degree from CSWE accredited social work program; G.P.A. of at least 3.5 (on a 4.0 scale);

3. Graduate Record Examination scores (test taken within five years preceding application): Verbal: 500 and Quantitative: 500

4. School of Social Work Application

5. Three recommendations addressing applicant’s academic and professional capabilities;

6. Candidate’s statement that describes reasons for seeking admission to the Ph.D. in Social Work program, career goals, and research interests;

7. Professional or academic writing sample providing evidence of scholarly abilities such as single-authored journal article, book chapter, technical report, thesis, grant application, or other comparable work.

8. Interview
Program Admission Deadlines
Cyclical admissions; contact the School for further information.

DEGREE PROGRAM REQUIREMENTS

Thirty-six hours (36) of course work
Twenty-four hours (24) of dissertation work

Successful completion of qualifying examinations at the end of Semester 6 admits the student to Candidacy

Successful defense of a dissertation consisting of original Social Work research

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
SOCIOLOGY

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Sociology
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: James Cavendish
Other Contact: Phone: 813-974-2893
Fax: 813-974-6455
Email: pgreene@chuma1.cas.usf.edu
Web Address: 
Mailing Address:
University of South Florida
Department of Sociology
Sociology Program
4202 E. Fowler Avenue, CPR107
Tampa, FL 33620

PROGRAM INFORMATION

The Sociology M.A. 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 thesis research. Many of our M.A. recipients continue in sociology Ph.D. programs. 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.

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

Major Research Areas:
Community and Identity Studies, Cultural Sociology, Social Psychology, Emotions, Family, Sex and Gender, Race/Ethnic/Minority Relations, Religion, Deviant Behavior/Social Disorganization, Science and Technology, Qualitative Methodology

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus:
1. three letters of reference
2. a personal statement, and
3. an example of written work

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

The Sociology department has an option of a thesis or an internship for the capstone course. Both are carried out under the supervision of faculty members. Students electing a thesis option can take six of the required 36 hours as thesis hours. Students electing the internship option choose an appropriate internship site in consultation with their advisors.

Required courses for all students:
SYA 6126 (Sociology Theory)
SYA 6305 (Methods of Research)
SYA 6405 (Statistics)

The remaining 27 hours of electives must include at least 12 hours scheduled graduate courses in Sociology, no more than six (6) hours of advisor-approved 4000 level courses, no more than six (6) hours of SYA 6971 (thesis) or SYA 6912 (directed research) in preparation for thesis or internship. With an advisor’s approval, 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 an advisor’s approval, up to nine (9) hours of elective credit may be taken in a department other than Sociology.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
SPANISH

Master of Arts (M.A.)

DEGREE INFORMATION

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CONTACT INFORMATION

<table>
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<tr>
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<th>Maria Esformes</th>
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<tr>
<td>Other Contact:</td>
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</tr>
<tr>
<td>Phone:</td>
<td>813-974-2548</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-1718</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:esformes@chuma1.cas.usf.edu">esformes@chuma1.cas.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://www.cas.usf.edu/languages/">http://www.cas.usf.edu/languages/</a></td>
</tr>
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</table>

PROGRAM INFORMATION

Contact Program for information.

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

ADMISSION INFORMATION

Program Admission Requirements
Must have:
1. undergraduate 3.0 GPA
2. 2-3 letters of recommendation,
3. a writing sample in Spanish, and
4. an oral interview in Spanish (can be done by phone)

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

1) Proficiency in a second foreign language.
2) Satisfactory completion of a written comprehensive examination on Spanish language, literature, and civilization. This exam is based on a reading list.
3) FOW 6805 Bibliography
4) Course work following one of the plans listed below:
   a) Plan A 36 hours of graduate courses in Spanish. No thesis.
   b) Plan B 36 hours, of which 27-30 graduate hours must be in one language area and 6-9 in another area/department, as approved by the Spanish Graduate Program Director. No thesis.
   c) Plan C 27 semester hours in one language area plus a thesis, with 6 hours of SPW 6971
   d) Plan D 27 semester hours, with 18-21 hours of graduate-level course work in one language area and 6-9 in another area/department, as approved by the Spanish Graduate Program Director. In addition: a thesis, with 6 hours of SPW 6971.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Three Summer M.A. program: Students may also receive the M.A. in Spanish by enrolling in courses at the Tampa campus during the summer. Generally the degree is received after three summers of study. Contact the Graduate Program Director for details.

Special Summer Programs Overseas
The Division of Languages and Linguistics, in cooperation with the International Affairs Center, offers several summer study programs overseas. These include study in Spain, and Costa Rica. For complete details, contact the program advisors or the International Affairs Center.
SPEECH-LANGUAGE PATHOLOGY

Master of Science (M.S.)

DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Degree Offered</th>
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<tbody>
<tr>
<td>Degree Program</td>
<td>Speech-Language Pathology</td>
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<tr>
<td>Concentrations</td>
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<td>Program Level</td>
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</table>

CONTACT INFORMATION

| Program Director        | Jacqueline Hinckley      |
| Other Contact           | n/a                      |
| Phone                   | 813-974-2006             |
| Fax                     | 813-974-0822             |
| Email                   | jharring@chuma1.cas.usf.edu|
| Web Address             | http://www.cas.usf.edu/cs|d/index.htm                  |

Mailing Address:
University of South Florida
Communication Sciences and Disorders
Speech-Language Pathology (post Bacc) Program
4202 E. Fowler Avenue, PCD1017
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Communication Sciences and Disorders is devoted to the study of normal and disordered human communication. Courses and practice provide the student with principles, research methods and application of knowledge about the spectrum of verbal and non-verbal communication. Diagnosis and remediation of communicative problems dominate the clinical component of this course of study.

The Master of Science and Doctor of Audiology degrees offered through the Department are structured to meet the preparation requirements of the American Speech-Language-Hearing Association for the Certificate of Clinical Competence. The Speech-Language Pathology and Audiology programs are accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

Accreditation:

Major Research Areas: n/a

ADMISSION INFORMATION

Program Admission Requirements
Same as university plus:
1. three letters of recommendation
2. a letter of intent, and
3. applicant must also demonstrate competency in communication skills as determined by the chairperson or delegate.

Program Admission Deadlines
Fall Deadline: February 1

DEGREE PROGRAM REQUIREMENTS

All majors must complete the following Core Requirements. (20 Credits)
SP 1510L (3) (Speech-Language majors only)
SPA 1952 (3)
SPA 5408 (3)
SPA 6410 (3)
SPA 6805 (3)
SPA 6571 (2)
SPA 6930 (3)
SPA 6410 (3)

In addition to general University requirements for the master’s degree, candidates must complete at least 34 hours of regularly scheduled academic coursework at the graduate level. Also, students will enroll in sufficient graduate clinical practicum to meet a minimum of 375 clock hours to fulfill the requirements of the American Speech-Language-Hearing Association. Of these hours, at least 250 clock hours must be in the specialization area at the graduate level in which certification is being sought. Also required for graduation are the attainment of a ‘B’ or better in each graduate Speech-Language Pathology course, the attainment of clinical competence determined by a GPA of 3.0 in all clinical practica, satisfactory passage of a comprehensive examination and successful
completion of a thesis or non-thesis option. With the department chairperson’s approval, a student with an existing bachelor’s degree and appropriate prerequisites may plan the degree program from among the following courses. Course selection is based on prescribed content areas within the discipline.

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<tr>
<th>Course</th>
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<tr>
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<td>SPA 6245</td>
<td>(3)</td>
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<tr>
<td>SPA 6410</td>
<td>(3)</td>
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<tr>
<td>SPA 6505</td>
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<tr>
<td>SPA 6971</td>
<td>(var)</td>
</tr>
<tr>
<td>SPA 7931</td>
<td>(3)</td>
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</table>

**Thesis**

Each student must complete at least 1 hour of SPA 6910 (Directed Research) and a minimum of 5 hours of SPA 6971 (Thesis) and submit an approved thesis.

**Non-thesis**

Each student must complete an additional seven (7) hours of coursework. Of these, at least three (3) hours must be from within the department while three (3) hours may be selected from another department. A one (1)-hr. Directed Research experience is required. Prior to initiation of non-thesis option coursework, the student must obtain approval from an advisor, study plan director, and the department chair.

**COURSES**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
WOMEN’S STUDIES

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Women’s Studies
Concentrations Offered: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Marilyn Myerson, Ph.D.
Other Contact: 
Phone: 813-974-3496
Fax: 813-974-0336
Email: myerson@cas.usf.edu
Web Address: http://www.cas.usf.edu/womens_studies/index.html
Mailing Address: University of South Florida
Department of Women’s Studies
Womens Studies Graduate Program
4202 E. Fowler Avenue, FAO153
Tampa, FL 33620

PROGRAM INFORMATION

The M.A. in Women’s Studies requires the completion of 36 credit hours. The program has two tracks: a research option that requires a thesis and an applied option that requires an internship and subsequent analytic report on the internship experience. This format was designed to serve the needs of a variety of different categories of students desiring a graduate degree in Women’s Studies. The thesis option is recommended for students who intend eventually to pursue a doctoral degree. The internship option is recommended for students who seek the M.A. as a terminal degree.

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

Major Research Areas: n/a

ADMISSION INFORMATION

Program Admission Requirements
Same as general university requirements with the exception that applicants without training in Women’s Studies are admitted on a conditional basis. In addition, applicants must submit a personal narrative statement of purpose, a writing sample, and three letters of recommendation.

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

The M.A. in Women’s Studies requires the completion of thirty-six credit hours. These hours are divided as follows:

1. Four required core courses (12 cr. hrs.) chosen from WST 6001, WST 6406, WST 6560, WST 6002 and an additional course currently being offered under WST 5934 Selected Topics: Feminist Challenges to Traditional Paradigms

2. Elective courses (18 cr. hrs.) to be selected from
   1. courses offered by the Department of Women’s Studies, up to six cr. hrs. of which may be 4000-level courses,
   2. graduate courses on women and issues surrounding the intersection of gender/class/race offered by other departments,
   3. no more than one other graduate-level course approved by the graduate director.

Thesis
Six credit hours of thesis research, typically over two semesters, during which the student will develop a thesis prospectus 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.

Non-thesis
Six credit hours of internship experience, typically over two semesters, in a human service agency or other institution or organization that deals primarily with women. The internship will be approved by the student’s internship committee. The student will be required to write a narrative report describing the internship in detail and
analyzing the experience in terms of appropriate theoretical frameworks. The completed narrative and experience must be defended as an oral defense.

**Comprehensive Examinations**
Each student must pass a written comprehensive examination. It is expected that a student will successfully complete the comprehensive examination prior to beginning thesis or internship work.

**COURSES**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
College of Arts and Sciences at USF- St. Petersburg

University of South Florida
St. Petersburg - College of Arts and Sciences
140 Seventh Avenue S
St. Petersburg, FL  33701

Web address:  www.stpt.usf.edu/coas/index.htm
Email:  pewhite@stpt.usf.edu
Phone:  727-553-4156
Fax:  727-553-4526

College Dean:  V. Mark Durand
Associate Dean:  Lisa Starks
Graduate Coordinator:  n/a

Accreditation:
Contact College for Information.

Mission Statement:
The faculty of the College of Arts and Sciences at USF St. Petersburg devotes itself to leading students and the broader community to understand the social and physical environment of the past, the present and the future. Our mission consists in teaching people to think critically by analyzing and synthesizing ideas and information throughout a wide spectrum of disciplines that range from the literacy to the scientific. The college seeks to understand and establish connections among diverse disciplines, cultures, and peoples.

Its members, including faculty, staff and students, seek to nurture learning both within and beyond the classroom in time and space. They do so by acquiring and extending knowledge by honing skills that will serve them and their society throughout their lives: the ability to research, reason, Read, and write. By learning how to learn, our students will provide the intellectual capital needed by society now and in the future.

Major Research Areas:
See individual departments.

Types of Degrees Offered:
Master of Arts (M.A.)
Master of Liberal Arts (M.L.A.)

Name of Programs Offered:
Master of Arts (M.A.) - Mass Communications (concentration in Journalism Studies)
Master of Liberal Arts (M.L.A.) - Liberal Arts (Concentration in Florida Studies)

Concentrations:
Journalism Studies, Florida Studies

Graduate Certificates Offered:  n/a

College Requirements:  n/a
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

MASS COMMUNICATIONS

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Mass Communications
Concentration: Journalism Studies

EXAMPLE OF CONCENTRATION PAGE

ADULT EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Adult Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
LIBERAL ARTS AT USF ST. PETERSBURG

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

DEGREE INFORMATION

Degree Offered: Master of Liberal Arts (M.L.A.)
Degree Program: Liberal Arts
Concentration: Florida Studies
Also offered as: Concentrations in:
- Africana Studies (Offered in Tampa)
- Humanities (Offered in Tampa)
- Liberal Studies (Offered in Tampa)
- Social and Political Thought (Offered in Tampa)
Program Status: Active
Program Level: Masters

PROGRAM INFORMATION

The Master of Liberal Arts offers students an opportunity to study from an interdisciplinary perspective the ideas and works that have shaped world culture. Five program concentrations are available: the Liberal Studies Sequence, though broadly interdisciplinary, focuses on a concept, movement or idea. The Humanities Sequence requires a concentration in the Dept of Humanities and American Studies. The Social and Political Thought Sequence requires a program of study approved by a faculty committee. The Africana studies Sequence requires a concentration in Africana Studies. It is an interdisciplinary program that focuses on the study of African American, African, and African Diasporan culture and society. The Florida Studies Sequence allows students to build a program based on a broad array of Florida-based classes drawing on many programs, including History, English, Marine Science, Political Science, Journalism and Media Studies, Art, and Anthropology. All programs require a minimum of 30 credits of course work and a three credit thesis.

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

ADMISSION INFORMATION

Program Admission Requirements
Upper division undergraduate GPA of 3.0 and a GRE of at least 1000 with a verbal score of 500 or higher and an analytical writing score of not less than 4.5. Contact individual concentration advisors for possible additional requirements (e.g., recommendations, writing samples, etc.)

Program Admission Deadlines
Same as university.

DEGREE PROGRAM REQUIREMENTS

Florida Studies Concentration (St. Petersburg Campus)
Contact Program for information.

Total minimum required hours: (33)
Course - 30 hours of courses from an approved list. At least 20 hours must be at the 6000 level; 4 hours may be at the 4000 level. Satisfactory completion of a written comprehensive examination. Thesis (3); Thesis Defense.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
MASS COMMUNICATIONS AT USF ST. PETERSBURG

Concentration in Journalism Studies
Master of Arts (M.A.)

## DEGREE INFORMATION

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<tr>
<td>Concentration:</td>
<td>Journalism Studies</td>
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<tr>
<td>Also offered as:</td>
<td>Certificate in Converged Media Mass Communication Studies (at USF Tampa) Public Relations Studies (at USF Tampa)</td>
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## CONTACT INFORMATION

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<tr>
<th>Program Director:</th>
<th>Deni Elliott</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Contact:</td>
<td>Robert Dardenne</td>
</tr>
<tr>
<td>Phone:</td>
<td>727-553-4850</td>
</tr>
<tr>
<td>Fax:</td>
<td>727-553-4034</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:elliott@stpt.usf.edu">elliott@stpt.usf.edu</a></td>
</tr>
<tr>
<td>Mailing Address:</td>
<td>University of South Florida, St. Petersburg Department of Journalism and Media Studies 140 Seventh Avenue South, FCT 204 St. Petersburg FL 33701</td>
</tr>
</tbody>
</table>

## PROGRAM INFORMATION

The M.A. degree program in Mass Communications is designed for students who are seeking advanced studies in preparation for professional and academic careers in mass communications.

The journalism concentration (offered at USF - St. Petersburg) emphasizes advanced practice and study in writing, reporting, ethics, and theoretical issues.

### Accreditation:
Accredited in May 2004 by the Commission on Colleges of the Southern Association of College and Schools and the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

### Major Research Areas:
Media, ethics, science communication and visual communications.

## ADMISSION INFORMATION

### Program Admission Requirements
Same as university except that the students are expected to have both a 3.0 upper division GPA and 1000 on the GRE.

In addition, a resume, three letters of recommendation (academic recommendations preferred), a strong letter of intent and an appropriate bachelor's degree from an accredited institution.

### Program Admission Deadlines
Same as university.

## DEGREE PROGRAM REQUIREMENTS

### Journalism Studies
This program, at USF-St. Petersburg, requires 36 hours of course work, including either a thesis for 6 credit hours or a professional project for 3 credit hours. As an option, students may designate an area of specialization and take up to 12 hours through other departments of the university. Students are also eligible to participate for academic credit in certain seminars offered by the Poynter Institute, adjacent to the St. Petersburg campus.

### COURSES
See [http://www.ups.usf.edu/sab/sabs.cfm](http://www.ups.usf.edu/sab/sabs.cfm) and [www.stpt.usf.edu/journalism/](http://www.stpt.usf.edu/journalism/)
Section 14
College of Business Administration

University of South Florida
College of Business Administration
4202 E. Fowler Ave BSN 3403 (loc BSN 103)
Tampa, FL  33620

Web address:  http://www.coba.usf.edu/
Email:  becherok@coba.usf.edu
Phone:  813-974-3335
Fax:  813-974-4518

College Dean:  Robert L. Anderson
Associate Dean:  Richard L. Meyer
Graduate Coordinator:  Wendy E. Baker

Accreditation:
The Ph.D., M.B.A., M.S. in Management Information Systems, M.S. in Management: Leadership and Organizational Effectiveness, Master of Accountancy, and M.A. in Economics programs in the College of Business Administration 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:
In the College of Business Administration, graduate programs are designed to make graduate level professional education available to qualified persons who seek managerial and professional positions in business, government, or education. Programs support research activity so vitally necessary to maintain a quality graduate faculty and program, as well as foster the independent, innovative thinking and action appropriate to a professional individual.

Major Research Areas:  Contact College for information.

Types of Degrees Offered:
Master of Accountancy (M.Acc.), Master of Arts (M.A.), Master of Business Administration (M.B.A.), Master of Science (M.S.), Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Accountancy - M.Acc.
Accountancy

Master of Arts - M.A.
Business Economics

Master of Business Administration - M.B.A.
Business Administration (full-time or part-time)
Executive M.B.A.
Executive M.B.A. for Physicians (Inactive)
Saturday M.B.A. (Inactive)
M.B.A. Program at Sarasota
M.B.A. Program at St Petersburg

Master of Science - M.S.
Management
Management Information Systems

Doctor of Philosophy - Ph.D.
Business Administration

Concentrations:
See Application Tracks below.

Graduate Certificates Offered:  n/a
COLLEGE REQUIREMENTS

Non-Degree Seeking Students
The College of Business Administration will approve, on a space available basis, non-degree seeking student status only 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.

Organizations and Centers:

The Center for International Business (CIB) is a major resource for international business education, community development, and research in the West-Central Florida area. It is committed to:* Ensuring that USF provides its students with excellent preparation for business careers in the global economy. This is done through summer abroad programs, international and exchange opportunities with universities around the world.* Conducting community outreach that enhances international business activity and capability in the West-Central Florida area.* Promoting and facilitating research on important international business and economic issues.

The Center for Entrepreneurship is a multi-disciplinary, campus-wide center focusing on entrepreneurial education, training and research. The vision of the USF Center for Entrepreneurship is to create an internationally recognized Center of Excellence for educating and training entrepreneurial leaders using innovative, interdisciplinary approaches. The Center seeks to create unique learning opportunities through partnerships among students, faculty and community entrepreneurial leaders. These partnerships leverage the strengths of all participants to create a nationally recognized program which enables students, faculty and entrepreneurial leaders to develop the critical skills necessary to (1) identify new opportunities (2) accelerate the commercialization of new technologies and (3) create and grow successful new business ventures.

The Center for Economic Policy Analysis at the University of South Florida is a non-profit, ideologically neutral collection of scholars devoted to the analysis of social policy relevant to the Tampa Bay region, the State of Florida and the Nation. Our unifying theme is a fundamental belief that good decisions concerning social policy are grounded in a thorough understanding of economic principles.

The University of South Florida Leadership Center was founded in 1999, and its primary mission is to be an interactive center, linking businesses, educational institutions, and the community by sharing ideas to aid in the journey for personal leadership development. The vision of the University of South Florida Leadership Center is to become the premier learning community devoted to nurturing and sharing ideas on leadership development for the 21st Century.

The Small Business Development Center offers assistance in facilitating the initiation and growth of entrepreneurial forms of private enterprise. It offers seminars, workshops and individual consultation. A continued support system is provided for its clients to ensure successful implementation. Students under faculty direction provide assistance in developing business, marketing, and financial plans for existing and high growth businesses.

The Center for Economic Development Research (CEDR), conducts applied economic research on regional, statewide, and national issues. The Center’s educational activities cultivate excellence in economic development practice and are bolstered by the annual, week-long Basic Economic Development Course that is accredited by the International Economic Development Council. Through its Internet Data Center, the Center provides a service to all those interested in obtaining national and regional economic/demographic data sets and research reports.

The Institute for Information Systems Management (IISM) was established as a partnership between business, government and higher education. Its mission is to establish a major center for research, education and professional networking that will help firms operate effectively in the information age. From time to time the Institute presents seminars, workshops, and round-table discussions on important issues in Information Systems Management and conducts applied research on topics of interest to its corporate affiliates. IISM resides in the College of Business Administration and can be reached during normal business hours at (813) 974-5524.
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

BUSINESS ADMINISTRATION

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

DEGREE INFORMATION

Degree Offered: Master of Business Administration (M.B.A.)
Degree Program: Business Administration
Concentration: n/a

EXAMPLE OF CONCENTRATION PAGE

ADULT EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Adult Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
# ACCOUNTANCY

## Master of Accountancy (M.Acc.)

### DEGREE INFORMATION

**Degree Offered:** Master of Accountancy (M.Acc.)

**Degree Program:** Accountancy

**Concentrations:** n/a

**Also offered as:** Accounting track under Business Administration (Ph.D.)

**Applications tracks for the M.Acc. include:**
- Accounting and Assurance
- Accounting Information Systems

**Program Status:** Active

**Program Level:** Masters

### CONTACT INFORMATION

**Program Director:** William Parrott

**Other Contact:**

**Phone:** 813-974-6736

**Fax:** 813-974-6528

**Email:** wparrott@coba.usf.edu

**Web Address:** [http://www.usfaccounting.com](http://www.usfaccounting.com)

**Mailing Address:**

University of South Florida

School of Accountancy

Master of Accountancy Program

4202 E. Fowler Ave, BSN 3403

Tampa, FL 33620

### PROGRAM INFORMATION

The objective of the Master of Accountancy (M.Acc.) Program is to provide candidates with greater breadth and depth in accountancy than is possible in the baccalaureate program. The Master of Accountancy Program is designed to meet the increasing needs of business and government, as well as public accounting, for persons who have in-depth professional training in accounting and a background in the areas of quantitative methodology, economic analysis, finance, etc. The M.Acc. Program may also be structured to satisfy the requirements to sit for the Uniform CPA Examination in Florida.

**Accreditation:**

Accredited by the Commission on Colleges of the Southern Association of College and Schools and AACSB International-Association to Advance Collegiate Schools of Business

**Major Research Areas:**

Contact department.

## ADMISSION INFORMATION

**Program Admission Requirements**

Must have a 3.0 upper-level accounting GPA and 3.00 upper-level GPA; 500 or higher GMAT or 1050 (Q&V) GRE

### DEGREE PROGRAM REQUIREMENTS

For the student who has the equivalent of an undergraduate major in accounting at USF (including 27 hours of upper-level accounting coursework taken within the last 5 years), the program consists of 30 hours. Most (21 hours) of the program is devoted to the study of accounting. The remaining 9 hours consist of study in other business areas including economics, entrepreneurship, finance, and information systems/decision sciences. These 9 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. M.Acc. students may select the Accounting and Assurance Track or Accounting Information Systems Track.

**Accounting and Assurance Track** (30 hours)

- ACG 6346 Cost Accounting Theory 3
- ACG 6405 Accounting Systems Theory 3
- ACG 6636 Contemporary Issues in Auditing 3
- ACG 6875 Development of Accounting Thought 3
- ACG 6932 Integrative Accounting Seminar 3

Two of the following:

- ACG 5501 Governmental/Not-for-Profit Accounting 3
- ACG 5201 Advanced Financial Accounting 3
- ACG 5675 Internal and Operational Auditing 3

### Program Admission Deadlines

- **Fall Deadline:** June 1
- **Spring Deadline:** October 15
- **Summer Deadline:** March 15
TAX 5015 Federal Taxation of Business Entities 3
TAX 6065 Tax Research, Planning and Procedure 3
TAX 6445 Estate Planning 3

Other business courses:
Three elective courses (9 hours) outside the field of Accountancy with advance written approval by the M.Acc. Advisor.

**Accounting Information Systems Track** (30 hours)
ACG 6405  Accounting Systems Theory 3
ACG 6457  Accounting Systems Audit, Control, and Security 3
ACG 6476  Contemporary Issues in Accounting Info. Systems 3
ACG 6932  Integrative Accounting Seminar 3

Three of the following:
ACG 6346 Cost Accounting Theory 3
ACG 6636 Contemporary Issues in Auditing 3
ACG 6875 Development of Accounting Thought 3
ACG 5201 Advanced Financial Accounting 3
ACG 5501 Governmental/Not-For-Profit Accounting 3
ACG 5675 Internal and Operational Auditing 3
TAX 5015 Federal Taxation of Business Entities 3
TAX 6065 Tax, Research, Planning and Procedure 3

Other business courses:
Three (3) elective courses (9 hours) outside the field of Accountancy.

ISM 4233 Information System Interface Design 3
ISM 4234 Object-Oriented Design & Development 3
ISM 6218 Advanced Database Management 3
ISM 6225 Distributed Information Systems 3
ISM 6480 Electronic Commerce 3
BUL 5331 Law and the Accountant 3
ISM 6217 Database Administration 3

**Tax Track** (30 hours) *(not currently available)*

**COURSES**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
BUSINESS ADMINISTRATION

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

DEGREE INFORMATION

Degree Offered: Master of Business Administration (M.B.A.)
Degree Program: Business Administration
Concentrations: n/a. See Application Tracks
Application Tracks/Areas of Study:
- Entrepreneurship
- Finance
- Advanced Financial Management
- Advanced International Business
- Government and Business
- Health Care in a Changing Business Environment
- International Business
- Law, Ethics and Sustainability
- Management
- Management Information Systems
- Advanced Management Information Systems
- Marketing Strategy
- Advanced Marketing
Also offered as: Executive MBA
- Executive MBA for Physicians (Inactive)
- Saturday MBA (Not accepting students)
- MBA at Sarasota
- MBA at St. Petersburg

Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Steven Baumgarten
Other Contact: MBA Advisors
Phone: 813-974-3335
Fax: 813-974-4518
Email: mbac@coba.usf.edu
Web Address: http://www.coba.usf.edu/programs/mba/index.html

Mailing Address:
University of South Florida
College of Business Administration
MBA Program
4202 E. Fowler Avenue, BSN3403
Tampa, FL 33620

PROGRAM INFORMATION

The Master of Business Administration (M.B.A.) is a professional degree designed to prepare graduates for managerial roles in business and not-for-profit 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. The program is designed to meet the needs of qualified men and women with undergraduate degrees from accredited universities. The College makes no distinction in the selection process between applicants with experience and those coming directly from academic life. However, experience is a meaningful background and will permit the student to better understand the subject matter to be mastered.

Accreditation:
- Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS);
- AACSB International - Association to Advance Collegiate Schools of Business

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Program Admission Requirements
Upper-level GPA 3.0 or higher and minimum of 500 on GMAT.
Program Admission Deadlines
Fall Deadline: June 1
Spring Deadline: November 1
Summer Deadline: no admit

DEGREE PROGRAM REQUIREMENTS
The M.B.A. degree is a 56 hour program. All M.B.A. candidates must complete all degree requirements within five years of beginning the program. The full-time student without course waivers generally will need 6 semesters to complete the program. Part-time students can complete all work within a reasonable time--approximately three years without course waivers. 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 who have completed undergraduate or graduate courses in business and economics from an AACSB accredited school may receive course waivers and reduce their course loads from the maximum requirement. Courses are scheduled to accommodate both full-time and part-time students. All courses are at the graduate level. Students entering the program are expected to have sufficient competency in mathematics (College Algebra), communication skills (written and verbal), and basic computer skills. The curriculum consists of:

The Common Body of Knowledge
Common Body of Knowledge: (CBK) courses, also known as the "TOOL" Area courses, are designed to provide basic background in the several functional areas in order to prepare for more advanced studies. The courses assume little or no prior knowledge in the field. Students having undergraduate degrees in Business Administration may be eligible for waivers, subject to standards set by the faculty. The conditions for waivers are explained more fully below.

Application Areas (tracks):
The application areas encourage the development of market driven competencies and provide students with distinctive sets of knowledge and skills. Each grouping of courses allows students to position themselves in the marketplace by choosing applications that match their career goals. Students will select 3 areas of competency, each with 9 credit hours (advanced tracks are 6 credit hours).

Competency Certification:
Students will receive a certificate of achievement for the successful completion of each application sequence. Application area courses also include the opportunity to sharpen skills in writing, presentation, teamwork, technology applications, global applications, and communication.

Integrated Business Applications:
Integrated Business Applications is a six credit, two consecutive semester course sequence which emphasizes the integration and utilization of techniques and methods taught in the Tool and Application areas. The sequence involves working in both group and individual projects, with "live" as well as published cases. It utilizes a variety of computer applications, and includes the development of detailed business plans.

M.B.A. Course Structure
Common Body of Knowledge, "Tool" courses 21 credits
ACG 6025 Financial Accounting for Managers 2
ACG 6075 Management Accounting & Control 2
MAN 6055 Human Behavior and Organization 2
ECO 6114 Managerial Economics 2
QMB 6305 Managerial Decision Analysis 2
ECO 6204 Global Econ. Environment of Bus. 2
MAR 6815 Marketing Management 2
FIN 6406 Financial Management 3
ISM 6021 Management Information Systems 2
QMB 6603 Operations Management & Quality 2
Enhancement

Application Areas (Required Electives) 27 credits
Application Track #1 9
Application Track #2 9
Application Track #3 9

Required Courses 8 credits
GEB 6445 Social, Ethical, Legal Systems 2
GEB 6895 Integrated Business Applications I 3
GEB 6896 Integrated Business Applications II 3

Total Semester Credits Required 35-56

Note: Some Application Tracks may not be offered each year. Additional applications tracks may be developed based on students interests and needs.

Constraints
1. The maximum credits required is fifty-six (56). The minimum for a student with a business degree from an AACSB accredited institution within the last seven years is thirty-five (35).

2. Students with an undergraduate degree in Business who are eligible to waive the tool area courses must complete an advanced course in four of the seven areas waived. Students do not need an advanced course in their area of undergraduate major.

Note: Tool/core courses may not be counted as electives.

Thesis - Students may elect a 6 hour thesis in any of the areas of concentration of the college, subject to departmental approval.

Non-Tampa Campus Offerings
The full-time and part-time MBA programs are offered on the Tampa campus and the USF Downtown Center. The MBA at Sarasota is administered separately. For application procedures and additional information see MBA at Sarasota section.

COURSES: See http://www.ugs.usf.edu/sab/sabs.cfm
BUSINESS ADMINISTRATION

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Business Administration
Concentrations: n/a. See Application Tracks
Application Tracks/Areas of Study:
- Accounting
- Economics
- Finance
- Information Systems
- Marketing

Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Richard Meyer
Other Contact: Cathy Slagle
Phone: 813-974-3335
Fax: 813-974-4518
Email: cslagle@coba.usf.edu
Web Address: http://www.coba.usf.edu/programs/phd/index.html

Mailing Address:
University of South Florida
College of Business Administration / Graduate Studies
Ph.D. Program
4202 E. Fowler Avenue, BSN 3403
Tampa, FL 33620

PROGRAM INFORMATION

See M.B.A. program description

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; AACSB International -Association to Advance Collegiate Schools of Business.

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Program Admission Requirements
Competitive based on GPA, GMAT or GRE, personal statement, recommendations.

Program Admission Deadlines
Fall deadline: January 1
Fall Admission only

DEGREE PROGRAM REQUIREMENTS

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
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 program committee, a student may satisfy these requirements in any of the following ways:

A. By completing an undergraduate degree in business at an AACSB accredited institution, with an average of "B" or better in the last 60 hours, no more than 5 years prior to admission to the Ph.D. program.

B. By completing an M.B.A. degree at an AACSB accredited institution, no more than 5 years prior to admission to the Ph.D. program.

C. By completing one approved course with a grade of "B" or better in each of the functional areas: Accounting, Finance, Information Systems, Management, and Marketing. (Economics requirements are described under core requirements.) All graduate level courses at the 6000 level or above, with the exception of specific "tool" courses (e.g. statistics), will count toward this requirement.

D. By successfully petitioning the doctoral Program Committee to accept previous academic work (e.g., specialized Masters programs in business, degrees granted more than 5 years ago, etc.) in fulfillment of all or part of this requirement. Such a petition must be initiated during the first semester of the program.
Core Courses
The core courses are designed to provide a strong background in Economics and to develop the student's quantitative and statistical research skills. These courses are required of all students in the program. 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. The Economics requirement can be met by completing two graduate level courses, one in microeconomics and one in macroeconomics, with a grade of "B" or better. The courses which satisfy this requirement are:

ECO 6114 Managerial Economics
ECO 6204 Global Economic Env. of Business
ECO 6115 Microeconomics*
ECO 6206 Aggregate Economics*
ECO 6936 Economics of Organization*

At least one course must be taken from among those listed above with an asterisk (*).

The quantitative and statistical coursework is to be determined by the student's program committee in consultation with the student. A three course series is required. An appropriate sequence should be chosen from the following:

ECO 6424 Econometrics I
ECO 6425 Econometrics II
ECO 6936 Econometrics III
ECO 6936 Econometrics IV
GEB 6375 Applied Linear Statistical Models
QMB 7565 Introduction to Research Methods
QMB 7566 Applied Multivariate Statistical Methods

Any substitution of coursework should be approved at the time of acceptance, but must be approved before the student takes a substitute course. In addition, students are required to take an additional research elective approved by their advisory committee. Should a student earn a grade of "C" or lower in the core, he/she will be required to retake the course. If the student retakes the course and fails to receive a grade of “B” or better, the case will be reviewed by the Doctoral Program Committee and the student is subject to dismissal.

Major Field
All students will take at least five (5) courses at the 6000 or 7000 level in an area designated as the student's major. Students are encouraged to identify courses in the major 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 as majors: Accounting, Economics, 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 major field.

Support Field
The support area will consist of a minimum of three courses from one of the fields listed under the major fields. In some cases, a customized support area can be constructed to complement the major field. In special cases, that support field may include courses taken outside the 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 discipline 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.

Comprehensive Qualifying Examination
Upon completion of all coursework, students must pass a comprehensive written examination in the major area. The student's performance on this exam should reflect familiarity with the literature, as well as with current issues and problems related to these fields. A student who fails the field exam may retake it within one year. A second failure disqualifies the student from continuing the Ph.D. 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 field examinations are eligible for admission to candidacy for the Ph.D. 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 program 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 major area.

Normally, qualifying examinations will be administered in October and March of each year. A student who anticipates sitting for a field exam should notify the department chair and the Associate Dean in writing during the first week of the semester in which they plan to take the exam. The exams will be a minimum of 8 hours. The Associate Dean's Office will coordinate with the relevant department in scheduling and grading the exam.

Dissertation- 21 hours of dissertation are required for the degree.
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.

COURSES See http://www.ugs.usf.edu/sab/sabs.cfm
BUSINESS ADMINISTRATION (SATURDAY MBA)

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

<table>
<thead>
<tr>
<th>DEGREE INFORMATION</th>
<th>CONTACT INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Degree Offered:</strong> Master of Business Administration (M.B.A.)</td>
<td><strong>Program Director:</strong> Steven Baumgarten</td>
</tr>
<tr>
<td><strong>Degree Program:</strong> Business Administration (Saturday M.B.A. for Professionals)</td>
<td><strong>Other Contact:</strong> n/a</td>
</tr>
<tr>
<td><strong>Concentrations:</strong> n/a</td>
<td><strong>Phone:</strong> 813-974-4876</td>
</tr>
<tr>
<td><strong>Also offered as:</strong> See listing under MBA Program</td>
<td><strong>Fax:</strong> n/a</td>
</tr>
<tr>
<td><strong>Program Status:</strong> INACTIVE</td>
<td><strong>Email:</strong> n/a</td>
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Inactive. Currently, students are not being admitted to this program.
BUSINESS ADMINISTRATION AT SARASOTA-MANATEE

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

DEGREE INFORMATION

Degree Offered: Master of Business Administration (M.B.A.)
Degree Program: Business Administration
Concentrations: n/a
Also offered as: See MBA Program
Program Status: Contact Program
Program Level: Masters

CONTACT INFORMATION

Program Director: Steven Baumgarten
Other Contact: Marianne Harrison
Phone: 941-349-4333
Fax: 941-349-4351
Email: Harrison@sar.usf.edu
Web Address: http://www.sarasota.usf.edu/COBA/MBAHomePage/MBAHomePg.htm
Mailing Address: University of South Florida Sarasota/Manatee Office of Academic Affairs 5700 N. Tamiami Trail, PMC101 Sarasota, FL 34243

PROGRAM INFORMATION

The program consists of 56 credits of course work and is designed to be completed in approximately 2 ½ years. The program offers Sarasota-Manatee students geographical convenience, quality and affordability. The program is a lock-step program with a planned maximum number of students per cohort group. Because of the structured nature of the program, students must take all courses as, and when, they are offered. Program staff will register students each semester.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS); AACSB International -Association to Advance Collegiate Schools of Business.

Major Research Areas: Contact Coordinator for department

ADMISSION INFORMATION

Program Admission Requirements
Must have 3.0 upper-level GPA; 500 or higher GMAT

Program Admission Deadlines
Contact program for starting dates and deadlines.

DEGREE PROGRAM REQUIREMENTS

The program is 56 credits. The curriculum includes:

Managerial Tool Courses (23 credits): These are the basic skills of the MBA program. The techniques and procedures learned in these courses provide the foundation for the specific applications to follow.

Application Area Courses (27 credits): These courses provide the student with specific areas of specialization and competency. The program offers three major application areas: Finance, Management Information Systems, and Management/Marketing. Upon graduation, students will receive a certificate for each major application completed.

Integrated Business Application (6 credits): This is a 2-course sequence which ties together the various individual techniques and methods taught in the Tools and Applications areas. It is a project-based course which involves both individual and group effort.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ECO 6114</td>
<td>Managerial Economics</td>
<td>2</td>
</tr>
<tr>
<td>MAN 6055</td>
<td>Human Behavior and Organization</td>
<td>2</td>
</tr>
<tr>
<td>ACG 6025</td>
<td>Financial Accounting for Managers</td>
<td>2</td>
</tr>
<tr>
<td>ECO 6204</td>
<td>Global Econ. Environment of Business</td>
<td>2</td>
</tr>
<tr>
<td>ACG 6075</td>
<td>Management Accounting &amp; Control</td>
<td>2</td>
</tr>
<tr>
<td>MAR 6815</td>
<td>Marketing Management</td>
<td>2</td>
</tr>
<tr>
<td>QMB 6305</td>
<td>Managerial Decision Analysis</td>
<td>2</td>
</tr>
<tr>
<td>ISM 6021</td>
<td>Management Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>QMB 6603</td>
<td>Operations Management &amp; Quality Enhancement</td>
<td>2</td>
</tr>
<tr>
<td>GEB 6445</td>
<td>Social, Ethical, Legal Systems</td>
<td>2</td>
</tr>
<tr>
<td>FIN 6406</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6123</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6416</td>
<td>Advanced Financial Mgt</td>
<td>3</td>
</tr>
</tbody>
</table>
ISM 6217 Database Administration 3
MAR 6936 Technology Marketing Management 3
MAN 6297 Conflict Resolution in Organizations 3
FIN xxxx Finance Elective TBA 3
ISM 6442 Global Aspects of IS 3
MAR 6936 E-Commerce Marketing 3
GEB 6895 Integrated Business Applications 3
FIN 6815 Investments 3
GEB 6895 Integrated Business Applications I 3
GEB 6896 Integrated Business Applications II 3

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
BUSINESS ECONOMICS

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Business Economics
Concentrations: n/a
Also offered as: Specialization/concentration under Master of Business Administration (2 application areas) and under Doctor of Philosophy (Ph.D.) - Business Administration
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Michael Loewy
Other Contact:
Phone: 813-974-4252
Fax: 813-974-6510
Email: econgrad@coba.usf.edu
Web Address: http://www.coba.usf.edu/departments/economics/programs/master.html
Mailing Address:
University of South Florida
College of Business Administration
Business Economics Program
4202 E. Fowler Avenue, BSN3403
Tampa, FL 33620

PROGRAM INFORMATION

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.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS); AACSB International -Association to Advance Collegiate Schools of Business.

Major Research Areas:
Labor economics, health economics, public economics, urban and regional economics, international trade, and econometrics.

ADMISSION INFORMATION

Program Admission Requirements
Must have a 3.0 upper-level GPA; 500 or higher GMAT or 1000 (Q&V) GRE

Program Admission Deadlines
Fall deadline: May 15
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

All students are required to take courses in advanced economic theory, policy analysis, and econometrics. Undergraduate economics majors at USF may complete the program in one year beyond the B.A. in the 5-Year B.A./M.A. Program. 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.

Students must satisfy all University requirements for the M.A. degree. Departmental requirements include 30 hours of graduate credit selected with the approval of the department's graduate advisor. At least 24 hours must be in Economics not including Independent Study (ECO 6906 and Directed Research (ECO 6917). To graduate, a student must have an overall 3.0 GPA and 3.0 GPA for all economics courses.

Required Courses
ECO 6936 Mathematical Economics 3
ECO 6115 Microeconomics 3
ECO 6206 Aggregate Economics 3
ECO 6424 Econometrics I 3
ECO 6425 Econometrics II 3
ECO 6936 Economic Policy Analysis 3
COBA Electives 6

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
EXECUTIVE M.B.A.

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

DEGREE INFORMATION

Degree Offered: Master of Business Administration (M.B.A.)
Degree Program: Business Administration
Concentrations: Finance, Management
Also offered as: Business Administration (M.B.A.)
Executive MBA for Physicians *
Saturday MBA *
MBA at Sarasota
MBA at St. Petersburg
*Inactive
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Steven Baumgarten
Other Contact: Katie Knoth
Phone: 813-974-4876
Fax: 813-974-4518
Email: emba@coba.usf.edu
Web Address: http://www.emba.usf.edu/

PROGRAM INFORMATION

The weekend Executive M.B.A. is a lock-step, 20-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 program 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: The Commission on Colleges of the Southern Association of College and Schools, AACSB International - Association to Advance Collegiate Schools of Business.

ADMISSION INFORMATION

The weekend Executive MBA Program requires the submission of a preliminary application and personal interview prior to official graduate school application. Please see the program website for application forms or contact the program office.

Program Admission Requirements
Must have a 3.0 upper-level GPA; GMAT (may be waived) 5 years of management/professional experience; interview; statement of corporate approval.

Program Admission Deadlines
Deadline: May 31

DEGREE PROGRAM REQUIREMENTS

Executive MBA Program Curriculum

ACG 6025 Financial Accounting for Managers
MAN 6055 Human Behavior and Organization
GEB 6445 Social, Ethical, Legal Systems
QMB 6305 Managerial Decision Analysis
ECO 6114 Managerial Economics
ACG 6075 Manager Accounting & Control
ECO 6204 Global Economic Environment of Business
FIN 6406 Financial Management
GEB 6930 International Business
MAR 6815 Marketing Management
MAN 6911 Direct Research
FIN 6934 Financial Management II
ACG 6936 Taxation for Managers
MAN 6448 Negotiating Agreement and Resolving Conflict
QMB 6603 Operations Management
ISM 6021 Management Information Systems
FIN 6515 Investments
MAN 6930 Business Problems Analysis
MAN 6305  Human Resource Management
ISM 6305  Managing Information System Function
MAN 6930  Leadership in Organizations

During the interim summer session, each participant, in consultation with a faculty advisor, undertakes an applied research project that focuses on a work-related problem or area of interest. In addition, Executive M.B.A. students have the opportunity to participate in the annual two-week 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, and Beijing, Mexico City, Buenos Aires, Rio de Janeiro, Hong Kong, Milan, and Paris.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
EXECUTIVE M.B.A. FOR PHYSICIANS

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

**DEGREE INFORMATION**

Degree Offered: Master of Business Administration (for Physicians) (M.B.A.)

Degree Program: Business Administration (for Physicians)

Concentrations: n/a

Also offered as: Business Administration (MBA)

Executive MBA

Saturday MBA Inactive

Program Status: Inactive

Program Level: Masters

**CONTACT INFORMATION**

Program Director: Steven Baumgarten

Other Contact: n/a

Phone: 813-974-4876

Fax: n/a

Email: n/a

Web Address: [http://www.coba.usf.edu/](http://www.coba.usf.edu/)

Mailing Address:

University of South Florida
College of Business Administration
Executive M.B.A. for Physicians Program
4202 E. Fowler Avenue, BSN 3403
Tampa, FL 33620

Inactive. Currently, students are not being admitted to this program.
MANAGEMENT

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Management
Concentrations: Leadership and Organizational Effectiveness
Also offered as: A specialization/concentration under Master of Business Administration - 2 application areas (Management and Advanced Management)
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Alan Balfour
Other Contact: Phone: 813-974-1785
Fax: 813-974-1734
Email: abalfour@coba.usf.edu
Web Address: http://www.coba.usf.edu/departments/management/programs/msm/master.html
Mailing Address:
University of South Florida
Department of Management and Organization
College of Business Administration
4202 E. Fowler Avenue, BSN 3403
Tampa, FL 33620

PROGRAM INFORMATION

M.S. in Management: Leadership and Organizational Effectiveness (M.S.M.)
For updated details, please consult our website at www.coba.usf.edu. This program develops the skill to lead 21st century organizations. It is targeted for experienced, successful working managers - people who are already good at their jobs and who can be promoted to higher leadership and executive positions within or outside their present organizations. It is not intended for recent graduates seeking entry-level managerial positions.

The future requires a very different type of leader than the past. The hierarchical model of scientific management is no longer widely accepted. The leaders of the future must be able to empower others and to facilitate teamwork in diverse groups, to recognize and adapt to the constraints and opportunities of a global economy, and to accommodate the ethical and societal needs of the environment within which the organization functions.

Both the profit and not-for-profit communities have recognized these changes and have demanded that business schools provide a modified and improved manager for the future - a manager who succeeds by facilitating the performance of others. This manager must be successful in leadership and organizational effectiveness. The M.S.M. program is founded on two underlying beliefs: 1) that organizations are more than mere collections of individuals; that they are communities of shared concern; and 2) there is a moral imperative to help others when you can. These values lead to organizational behavior that is both effective and ethical. Intrapersonal, interpersonal, and organizational competencies are enhanced. The M.S.M. faculty members blend scholarly activity and applied skills. It is the goal of the faculty to prepare graduates for successful careers as leaders in the real world.

This is an extremely progressive, dynamic, well-focused program. It is designed to help you reach career goals. The M.S.M. is a 30 credit hour program offered in cohort format. The program is designed around the needs of working managers. Classes meet Monday and Tuesday evenings for twenty-one months. All students begin in August. The curriculum proceeds from encompassing perspective to skills development through understanding of interpersonal and organizational dynamics, to planned change and implementation. Sections are limited to thirty students. Course offerings and section availability are guaranteed to cohort members. All majors are eligible and welcome.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS). AACSBC International -The Association to Advance Collegiate Schools of Business.

Major Research Areas:
Leadership, Organizational Effectiveness, Strategic Management

ADMISSION INFORMATION

Program Admission Requirements
Must have a 3.0 upper-level GPA; 500 or higher GMAT or MAT of 400 or higher; leadership ability – work experience and personal statement.
Program Admission Deadlines
Fall Deadline: June 1
Fall Admission only.

DEGREE PROGRAM REQUIREMENTS
Students take the same ten required courses. The cohort format is structured as follows:
each is course is three (3) credit hours

MAN 6107 Leadership Perspective
MAN 6149 Leadership and Teams
MAN 6204 Organizational Design/Structure
MAN 6256 Politics and Control in Organization
MAN 6289 Managing Organizational Change and Development
MAN 6448 Negotiating Agreement and Resolving Conflict
MAN 6305 Human Resources Management
MAN 6607 Managing International Cultural Differences
MAN 6726 Strategic Planning
ACG 6028 Measuring Organizational Effectiveness

Program Total: 30 credits

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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
MANAGEMENT INFORMATION SYSTEMS

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Management Information Systems
Concentrations: n/a
Also offered as: Track under Business Administration (Ph.D.) and application area in Business Administration (M.B.A.)
Program Status: Active

CONTACT INFORMATION

Program Director: Alan R. Hevner
Other Contact: Mike Walters
Phone: 813-974-6776
Fax: 813-974-6749
Email: msmis@coba.usf.edu
Web Address: http://www.coba.usf.edu/departments/isds/programs/master.html
Mailing Address:
University of South Florida
Information Systems and Decision Sciences
Management Information Systems Program
4202 E. Fowler Ave., CIS1048
Tampa, FL 33620

PROGRAM INFORMATION

Management Information Systems (M.S./M.I.S.)

The Master of Science in Management Information Systems (M.S./M.I.S.) meets the needs of the marketplace for expertise in both information technology and management. Highly qualified individuals with motivation for leadership in information systems fields are encouraged to apply for admission to this program. We expect that graduates of the program will be in great demand by firms in the information services sector of the economy, software houses, management consultants, and M.I.S. departments in industry. An Industrial Advisory Board consisting of senior information systems executives and consultants works closely with the department to ensure that the program maintains high standards.

The M.I.S. program is designed for individuals who are challenged by applications other than science or technology and who are willing to undertake a career that demands a broad rather than narrow range of skills. Students who already have considerable background either in academic computer science or in business coursework will make use of the built-in flexibility of the program, designing courses of study that will provide them with the best background for their careers. A faculty advisor will work closely with each student to design and monitor the most effective course sequence and thesis/practicum work.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. AACSB International - The Association to Advance Collegiate Schools of Business.

ADMISSION INFORMATION

Program Admission Requirements
Must have a 3.0 upper-level GPA; 500 or higher GMAT or 1050 (Q&V) GRE; work experience desired.

Program Admission Deadlines
Fall deadline: June 1
Fall Admission only

DEGREE PROGRAM REQUIREMENTS

The program requires 30-32 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 program in one full year (3 semesters) of study. Part-time students and full-time students who need prerequisites will typically need from 1 1/2 to 3 years to complete the degree.

During the first year of the program, a student will complete a formal Program of Study that will define a coherent sequence of courses to satisfy the student’s objectives. A student may have the option to complete a master’s thesis or a Practicum project, depending upon the availability and approval of a faculty sponsor. All students must successfully pass a comprehensive final examination (given in capstone course ISM 6155) for degree completion.

Prerequisites: Incoming students are expected to have the following as prerequisites:* One semester of calculus or equivalent mathematical background* Two semesters of a high-level programming language (e.g., C, C++, Java) or
substantial programming experience* One semester of information systems analysis and design and one semester of database systems or equivalent* Educational background in business fundamentals must include courses in Accounting, Economics, and Statistics. Required prerequisite courses may be taken concurrently with courses in the M.S./M.I.S. program. Prerequisite courses do not count toward the 32 hours of course requirements in the M.S./M.I.S. program.

Management Core
The management core consists of three courses from the Management department. These courses allow students to grow their managerial capabilities for careers in the Information Systems field. Students will take the introductory course, MAN 6055 - Human Behavior in Organizations, plus two additional courses from the list below.

MAN 6289 Organizational Change and Development
MAN 6149 Leadership and Teams
MAN 6305 Human Resource Management
MAN 6107 Leadership Perspectives
MAN 6256 Politics and Control in Organizations
MAN 6448 Management of Conflict Resolution
MAN 6607 Managing International Cultural Differences

Other graduate management-oriented courses from areas such as public health or social sciences may be included as electives with the approval of the student’s advisor.

Electives (12 credits)
Four elective courses may be selected from additional Information Systems courses or other areas of specialization (e.g., Management, Decision Sciences, Computer Science, Logistics, other courses if approved).

Thesis (6 hrs. min.):
The master’s thesis option requires six credits of ISM 6971, which count as six of the 12 elective credits. The thesis must make a well-defined contribution to the research and development in an area of Information Systems.

Practicum
The practicum requires an investigation of a new information technology or application technique. 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. Based upon the magnitude of the project, either three or six hours of credit in ISM 6905 would be taken. The practicum would count for three or six hours of electives.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
Section 15

College of Business Administration at USF- St. Petersburg

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

Web address:  http://www.stpt.usf.edu/cob/index.htm
Email:  mba@stpt.usf.edu
Phone:  727-553-4MBA
Fax:  727-553-4192

College Dean:  n/a
Associate Dean:  R. Mark Wilson
Graduate Coordinator:  Jeannie Gaines

Accreditation:
The M.B.A. in the College of Business is accredited by the American Assembly of Collegiate Schools of Business (AACSB)

Mission Statement:
In the College of Business Administration, graduate programs are designed to make graduate level professional education available to qualified persons who seek managerial and professional positions in business, government, or education. Programs support research activity so vitally necessary to maintain a quality graduate faculty and program, as well as foster the independent, innovative thinking and action appropriate to a professional individual.

Major Research Areas:
See individual departments.

Types of Degrees Offered:
Master of Business Administration (M.B.A.)

Name of Programs Offered:
Master of Business Administration (M.B.A.) - part-time

Concentrations:  n/a

Graduate Certificates Offered:  n/a
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

**EXAMPLE OF PROGRAM PAGE**

**BUSINESS ADMINISTRATION**

*Master of Business Administration (M.B.A.)*

**DEGREE INFORMATION**

- **Degree Offered:** Master of Business Administration (M.B.A.)
- **Degree Program:** Business Administration
- **Concentration:** n/a

**EXAMPLE OF CONCENTRATION PAGE**

**ADULT EDUCATION**

*Doctor of Philosophy (Ph.D.) in Curriculum and Instruction*

**Concentration:** Adult Education

**DEGREE INFORMATION**

- **Degree Offered:** Doctor of Philosophy - Ph.D.
- **Degree Program:** Curriculum and Instruction
- **Concentration:** Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
BUSINESS ADMINISTRATION AT USF - ST. PETERSBURG

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

DEGREE INFORMATION

Degree Offered: Master of Business Administration (M.B.A.)
Degree Program: Business Administration
Concentrations: Corporate Finance (Reporting and Social Responsibility), Finance, International Business, Management, Marketing

Note: Some of these concentrations may no longer be available. For a complete list of concentrations or application tracks offered through USF refer to the USF MBA Program

Also offered through other campuses as:
- Business Administration (M.B.A. at Tampa)
- Executive MBA at Tampa
- Executive MBA for Physicians (Not accepting students)
- Saturday MBA [Not accepting students]
- M.B.A. at Sarasota

Program Status: Active

CONTACT INFORMATION

Program Director: Jeannie Gaines
Other Contact: n/a
Phone: 727-553-4MBA
Fax: 727-553-4192
Email: mba@stpt.usf.edu
Web Address: http://www.stpt.usf.edu/COB/USFSt.PetersburgCollegeofBusinessIndex.htm
Mailing Address:
University of South Florida St. Petersburg
College of Business Administration
140 Seventh Avenue South
St. Petersburg, FL 33701

PROGRAM INFORMATION

The program consists of 56 credits of course work and is designed to be completed in approximately 2 ½ years. The program offers St. Petersburg students geographical convenience, quality and affordability. The program is a lock-step program with a planned maximum number of students per cohort group. Because of the structured nature of the program, students must take all courses as, and when, they are offered. Program staff will register students each semester.

Accreditation:
The M.B.A. is accredited by the American Assembly of Collegiate Schools of Business (AACSB).

Major Research Areas:
Contact Coordinator for department

ADMISSION INFORMATION

Confirm requirements with the Program Director noted above.

Program Admission Requirements
Must have a 3.0 upper-level GPA; 500 or higher GMAT

Program Admission Deadlines
Confirm the following deadlines with the Program Director noted above.

Fall deadline: June 1
Spring deadline: November 1
Summer deadline: no admit

DEGREE PROGRAM REQUIREMENTS

The program is 56 credits. The curriculum includes:

Managerial Tool Courses (23 credits): These are the basic skills of the MBA program. The techniques and procedures learned in these courses provide the foundation for the specific applications to follow.

Application Area Courses (27 credits): These courses provide the student with specific areas of specialization and competency. The program offers three major application areas: Finance, Management Information Systems, and Management/Marketing. Upon graduation, students will receive a certificate for each major application completed.
Integrated Business Application (6 credits): This is a 2-course sequence which ties together the various individual techniques and methods taught in the Tools and Applications areas. It is a project-based course which involves both individual and group effort.

- ECO 6114 Managerial Economics 2
- MAN 6055 Human Behavior and Organization 2
- ACG 6025 Financial Accounting for Managers 2
- ECO 6204 Global Econ. Environment of Bus 2
- ACG 6075 Management Accounting & Control 2
- MAR 6815 Marketing Management 2
- QMB 6305 Managerial Decision Analysis 2
- ISM 6021 Management Information Systems 2
- QMB 6603 Operations Management & Quality Enhancement 2
- GEB 6445 Social, Ethical, Legal Systems 2
- FIN 6406 Financial Management 3
- ISM 6123 Systems Analysis and Design 3
- FIN 6416 Advanced Financial Mgt 3
- ISM 6217 Database Administration 3
- MAR 6936 Technology Marketing Management 3
- MAN 6297 Conflict Resolution in Organizations 3
- FIN xxxx Finance Elective TBA 3
- ISM 6442 Global Aspects of IS 3
- MAR 6936 E-commerce Marketing 3
- GEB 6895 Integrated Business Applications I 3
- FIN 6815 Investments 3
- GEB 6896 Integrated Business Applications II 3

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
Section 16
College of Education

University of South Florida
College of Education
4202 E. Fowler Ave, EDU162
Tampa, FL 33620

Web address: http://www.coedu.usf.edu/college/
Email: briscoe@tempest.coedu.usf.edu
Phone: 813-974-3406
Fax: 813-974-3391

College Dean: Colleen Kennedy
Associate Dean: Carine Feyten
Graduate Coordinator: Diane Briscoe

Accreditation:
In addition to the University’s regional accreditation by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS), 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 K-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.

The College offers a variety of graduate degree programs, including the Master of Arts (M.A.), the Master of Arts in Teaching (M.A.T.), the Master of Education (M.Ed.), the Education Specialist (Ed.S.), the Doctor of Education (Ed.D.) and the Doctor of Philosophy (Ph.D.).

Many concentrations are offered under the umbrella of “Curriculum and Instruction.” Graduate Certificates are also offered in a number of areas. For information about the different degree programs refer to the individual programs. Students seeking initial teacher 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 Studies Office at 813-974-3406, or http://www.coedu.usf.edu
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. Always check with the contact in your program of interest to determine whether or not there are programmatic variations.

**Major Research Areas:**
Contact Department or Program for information.

**Types of Degrees Offered:**
Master of Arts (M.A.), Master of Arts in Teaching (M.A.T.), Master of Education (M.Ed.), Education Specialist (Ed.S.), Doctor of Education (Ed.D.), Doctor of Philosophy (Ph.D.)

**Degree Programs and Concentrations:**
Business and Office Education (M.A.)
Career and Technical Education (M.A.)
College Student Affairs (M.Ed., Ph.D.)
College Teaching (joint program with concentrations) (M.A.)
Counselor Education (M.A., Ed.S., Ph.D.)
Early Childhood Education (M.A., M.Ed., Ph.D.)
Educational Leadership (M.Ed., Ed.S., Ed.D.)
Educational Leadership, College Leadership (Ed.D.)
Elementary Education (M.A., Ed.S., Ed.D., Ph.D.)
Elementary Education/ESOL (M.A., M.A.T.)
English Education (M.A., M.Ed., Ph.D.)
English Education/ESOL (M.A., M.A.T.)
Foreign Language Education French, Spanish or German (M.A., M.Ed.)
Foreign Language Education/ESOL (M.A., M.A.T.)
Higher Education (Ed.S., Ph.D.)
Instructional Technology (M.Ed., Ed.S., Ph.D.)
Interdisciplinary Education (Ed.S., Ph.D.)
Measurement and Evaluation (M.Ed., Ed.S., Ph.D.)
Music Education (contact the College of Visual and Performing Arts)
Physical Education (M.A.)
Reading Education (M.A., Ed.S., Ph.D.)
School Psychology (only available when combined with the Ed.S. or Ph.D. degree) (Ed.S., Ph.D.)
Science Education (M.A.T. in planning process; contact the program)

**Science Education(Biology, Chemistry, or Physics) (M.A., M.Ed., Ed.S., Ph.D.)**
Second Language Acquisition and Instructional Technology (SLAIT) joint program with the College of Arts & Sciences (Ph.D.)
Secondary Education (Ph.D.)
Secondary Education (Social Science Education) (Ph.D.)
Social Science Education (M.A., M.A.T., M.Ed.)
Special Education (Ed.S., Ph.D.)
Special Education, Behavior Disorders (M.A.)
Special Education, Exceptional Student Education Varying Exceptionalities/ESOL (M.A.T.)
Special Education, Gifted Education (M.A.)
Special Education, Mental Retardation (M.A.)
Special Education, Motor Disabilities (currently unavailable)
Special Education, Specific Learning Disabilities (M.A.)
Vocational Education (Ed.S. and Ph.D. programs currently closed to new admissions)

**Graduate Certificates Offered:**
Career Counseling*
College Teaching*
Diversity
Florida Adapted Physical Education*
Gifted Education**
Instructional Technology: Distance Education**
Instructional Technology: Instructional Design*
Instructional Technology: Multimedia Design
Instructional Technology: School Networks
Instructional Technology: Web Design**
Literacy in Elementary Programs
Mental Health Counseling
Play Therapy
Reading Certificate and Endorsement Program
Social Science Education

*Partially online curriculum
**Fully online curriculum

**Degree Programs:**
Master of Arts (M.A.)
Master of Arts in Teaching (M.A.T.)
Master of Education (M.Ed.)
Education Specialist (Ed.S.)
Doctor of Education (Ed.D.)
Doctor of Philosophy (Ph.D.)

**Master’s Degree Programs and Requirements**
The master’s programs offered in the College of Education lead to a Master of Arts degree (M.A.), a Master of Arts in Teaching degree (M.A.T.), or a
Master of Education (M.Ed.) degree. Students pursuing a Master’s degree must have an earned baccalaureate degree from a regionally accredited institution, or an equivalent foreign degree as determined by an evaluation conducted by an agency approved for foreign credential evaluation. Most programs offer through their M.A.T. degrees, a plan of study that leads to initial teacher certification for holders of a non-education baccalaureate degree.

The M.A. degree is primarily designed to increase competence in a teaching specialization or to provide professional preparation in one of the service areas of education. For most programs, three plans of study are available, depending on the student’s background and professional goals.

**College of Education Requirements for the Master of Arts (M.A.) Degree**
A minimum of 30 semester hours is required for the master’s degree, at least 16 hours of which must be 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.

The M.A., Plan I-program of graduate study is for those with appropriate initial teacher certification in the area of concentration who desire to increase their competence in a subject specialization or to receive additional professional preparation in an educational service area. The Plan I program is not available in all concentration areas. Contact the program for information.

**Plan I Degree Requirements**
All Plan I students must take a minimum of one of the following Process Core (Foundation) courses. Additional requirements are described under the Program descriptions.

- Process Core 3-12 hours
- EDF 6211 or EDF 6215
- EDF 6481, EDF 6432
- EDF 6517 or EDF 6544 or EDF 6606
- Current Trends Course in Teaching Specialization - 3 hours
- Concentration - 18 hours minimum
- Comprehensive Examination
- Thesis (Some programs have a Thesis option available)

**Note:** Check with the program of interest for programmatic variations.

The M.A., Plan II - programs are appropriate for students who wish to meet teacher certification requirements in an area of specialization while pursuing a master’s degree program approved for initial certification by the State of Florida. Contact the program for program requirements, and [http://www.coedu.usf.edu/sas](http://www.coedu.usf.edu/sas) for internship and State of Florida testing requirements. Plan II programs are not available in all specialization areas.

- Process Core 15 hours
- EDF 6432 EDF 6481 EDF 4620
- EDF 6211 or EDF 6215
- EDF 6517 or EDF 6544 or EDF 6606
- Current Trends Course in Teaching Specialization - 3 hours
- ESOL 3- 9 hours (depending on concentration area)
- Special Methods Courses 3-12 hours
- Concentration (Content) Coursework -18 hours minimum
- Classroom Management, School Safety, Professional Ethics and Educational Law 3 hrs.
- Reading Process/Methods of Teaching Reading 3-12 hrs.
- Internship - 6 hours (graduate level)
- Planned observation and teaching, supervised by a member of the University faculty and a school staff member. Please refer to [http://www.coedu.usf.edu/sas](http://www.coedu.usf.edu/sas) for specific internship and State of Florida testing requirements. Comprehensive Examinations are required in the College of Education and may be required in the College of Arts and Sciences for joint programs.

**Note:** Check with the program of interest for programmatic variations.

The M.A., Plan III (not available in all areas) This is a program of graduate study for the holder of a non-education baccalaureate degree who does not desire to meet initial certification requirements in the State of Florida. This plan is not available in all specialization areas. Please contact the program for information.

**Plan III Program Requirements:**
- Process Core 12 hours
- EDF 6432, EDF 6481
- EDF 6211 or EDF 6215
- EDF 6517 or EDF 6544 or EDF 6606
Current Trends Course in Teaching Specialization – 3 hrs.
Undergraduate Pre-requisites as necessary
Concentration (Content) – 18 hrs. minimum
Comprehensive Examination

Note: Check with the program of interest for programmatic variations.

The M.A.T. degree is designed for holders of a non-education baccalaureate degree who desire to meet initial teacher certification requirements as part of a graduate program. The baccalaureate degree must be appropriate (as deemed by program faculty) for the teaching field in which certification is sought. See College of Education requirements for the M.A.T. degree.

The M.Ed. degree is designed for individuals who have a minimum of two years of relevant educational or professional experience in the specialization selected, as judged by the program faculty. This degree option is offered to students pursuing graduate study in educational leadership or curriculum and instruction with an associated specialization/concentration.

College of Education Requirements for the Master of Education degree (M.Ed.)
The M.Ed. degree is designed for individuals who have a minimum of two years of relevant educational or professional experience in the concentration selected, as judged by the program faculty. This degree option is offered to students pursuing graduate study in educational leadership or curriculum and instruction with an associated specialization/concentration. Two degree tracks are offered.

1. Educational Leadership
The M.Ed. in Educational Leadership is designed to improved performance in K-12 school leadership. The degree provides coursework that meets Florida Educational Leadership Core Curriculum requirements in public school curriculum and instruction, organizational management and development, human resource management and development, leadership skills, communication skills, technology, educational law, and educational finance. Successful completion of the program fulfills degree and core curriculum requirements for Florida certification in Level I, K-12 Educational Leadership-Administrative Class. See description under the program section for specific requirements.

2. Curriculum and Instruction
The M.Ed. degree in Curriculum and Instruction, with a concentration (specialization) area – This degree is designed for the individual who has a minimum of two years of relevant educational or professional experience in a specialization area who wishes to pursue advanced study in that area. The primary objective is to prepare instructional leaders through courses in curriculum, methods, supervision, learning principles, human interaction, and areas of concentration/specialization. The foundation areas (professional studies) receive greater emphasis in the M.Ed. programs than the M.A. programs. Coursework in the concentration/specialization may include courses in colleges other than the College of Education.

The M.Ed. degree requires a minimum of 33 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.

Program of Study
Process Core 12 hours minimum
EDF 6432  EDF 6481
EDF 6211 or EDF 6215 or equivalent
EDF 6517 or EDF 6544 or
EDF 6606 or equivalent
Curriculum and Instruction 3 hours min.
EDG 6627 (a prerequisite course may be required at the undergraduate level)
Concentration (Content Specialization) 18 hours minimum
Comprehensive Examination

See individual program descriptions and contact the program of interest for programmatic variations.

Advanced Graduate Degree Programs
The advanced graduate degree programs lead to the Education Specialist (Ed.S.) degree, the Doctor of Education (Ed.D.) degree, and the Doctor of Philosophy (Ph.D.) degree. To be considered for admission to any advanced graduate degree program, students must have earned degrees from a regionally accredited institution, or hold equivalent foreign degrees as determined by an evaluation conducted by an agency approved for foreign credential evaluation, meet the college-specified minimum GRE and GPA-requirements and be favorably recommended also by program
faculty or a program admissions committee. Additionally, students must comply with any other college or program requirements specified for the prospective degree program. Note: Please check with the program of interest for programmatic variations.

The Ed.S. and Ph.D. degrees with a concentration in Interdisciplinary Education are administered by the Interdisciplinary Education Program Coordinator, Dr. E.V. Johanneningmeier, EDU 380-S, (813) 974-9495.

Education Specialist Degree Program (Ed.S.)
This degree is offered in the areas of Educational Leadership and in Curriculum and Instruction with a concentration area.

College of Education Requirements for the Education Specialist Degree (Ed.S.)
The Ed.S. degree consists of a minimum of 36 hours beyond the master’s degree and is flexible in its requirements. The degree is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the degree program has few required courses, and each student’s program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

Program of Study
Concentration coursework 27 hours minimum.
Thesis (Project) 9 hours minimum
Comprehensive Examination (oral and/or written)
Oral defense of the project/thesis

Thesis/Project – Ed.S. Degree. 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 program to the resolution of significant needs arising from professional practice. A minimum of 9 semester hours of thesis enrollment is required in the Ed.S. degree program. Students are required to enroll for a minimum of 2 semester hours in the 6971 thesis course each semester while working on the Ed.S. project and for 2 semester hours in the semester during which the student plans to graduate. Students who have not completed the project after enrolling in the required 9 hours must continue to enroll in a minimum of 2 credit hours each semester, including the semester in which the project is submitted to the College Associate Dean for Academic Affairs or Graduate Studies (School Psychology students). Students must have an oral defense of the project/thesis with their project/thesis supervisory committee.

Doctor of Education Degree Program (Ed.D.)
The Doctor of Education degree is available in Educational Leadership and in Educational Program Development with concentrations/specializations in Adult Education, Educational Leadership (K-12 and College Leadership), Elementary Education, Special Education Administration and Supervision, and Vocational Education. The focus of this degree program is on the improvement of educational practice. Although research skills are recognized as being the basis of any doctoral program, the Ed.D. is considered more a practitioner’s than a research degree. Currently, the degrees in Vocational Education, and Special Education Administration and Supervision are closed to new admissions.

College of Education Requirements for the Doctor of Education Degree (Ed.D.)
Program of Study
The Ed.D. requires a minimum of 76 hours beyond the master’s degree.
Concentration
Major Emphasis Area 24 hours
Curriculum and Instruction 6 hours
Statistics/Measurement/ Research Design 11-16 hours
Psychological and Social Foundations 11-12 hours
Dissertation 24 hours min.

Dissertation
Beginning with the semester immediately following admission to candidacy, students must be enrolled for a minimum of 12 dissertation credit hours in each 12-month period for the first two years after being admitted to candidacy. Students may complete the 12 hours in either two or three semesters but must be enrolled for dissertation hours in the Fall and Spring semesters of each year during the two year (24-month) period. Students may elect not to register for dissertation hours during the summer semester if in this two-year period they are not using university facilities or other USF resources, including faculty and staff time.

If such resources are being used, then enrollment in a minimum of two dissertation hours during the Summer semester is required. If the dissertation is
not completed by the time the 24 hours of dissertation credit have been accrued, students must enroll continuously, including Summer semester, for a minimum of two dissertation hours per semester until graduation. (This includes the semester during which the dissertation is defended and the semester in which final deposit of the dissertation is made to the Graduate School).

Exceptions to the continuous enrollment policy may be approved if the major professor writes a letter of petition to the Associate Dean for Academic Affairs, indicating specifically the nature and duration of the exception and the justification. Unless an exception has been approved, failure to enroll as specified will result in dismissal of the student from the program. To be readmitted, the student must secure permission from the major professor and write a letter of petition, co-signed by the major professor, to the Associate Dean for Academic Affairs, outlining in detail a timeline for completing the dissertation. The Associate Dean for Academic Affairs will approve or deny the petition. This process will be independent of, and will not replace, any procedures required for readmission by the University Office of the Graduate School, or the department.

Residency
Ed.D. students must enroll for at least nine hours of graduate work in each of two semesters in a 12-month period. Individual programs may have additional residency requirements.

Doctoral Qualifying Examination
Students must demonstrate satisfactory performance on the Doctoral Qualifying Examination before admission to candidacy. (See current College of Education Graduate Handbook, http://www.coedu.usf.edu; also consult Faculty Program Advisor).

Doctor of Philosophy Degree Program (Ph.D.)
The Doctor of Philosophy degree is available in Curriculum and Instruction with concentrations in the following areas: Adult Education, College Student Affairs, Counselor Education, Early Childhood Education, Elementary Education, English Education, Higher Education, Instructional Technology, Interdisciplinary Education, Mathematics Education, Measurement and Evaluation, Reading/Language Arts Education, Science Education, Secondary Education, Secondary Education (Social Science Emphasis), and Special Education. The degree in Vocational Education is currently closed to new admissions. Contact the College of Visual and Performing Arts for information on the Ph.D. in Music Education.

The Ph.D. degree is also available in School Psychology, and Second Language Acquisition and Instructional Technology (a joint program with the College of Arts and Sciences).

College of Education Requirements for the Doctor of Philosophy Degree Program (Ph.D.) in Curriculum and Instruction.
See individual program requirements for other Ph.D. degrees, (School Psychology and Second Language Acquisition/Instructional Technology).

Program of Study
Ph.D. program requires a minimum of 75 credit hours beyond the master’s degree.
Concentration/Specialization
Major Emphasis Area 18 hours minimum
Curriculum & Instruction 3 hours
Cognate Area 12 hours min.
Statistics/Measurement/Research Design 11-16 hours
Psychological and Social Foundations 7-8 hours min.
Dissertation 24 hours minimum

Dissertation, Residency, Doctoral Qualifying Examination
(Refer to the COE Graduate Handbook, www.coedu.usf.edu, link to Graduate Students. Note that the College of Education Residency section for the Ph.D. degree indicates that half time employment is required in addition to registering for nine graduate hours per semester, two semesters in a 12 month period)
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

Black denotes degree

Green denotes Program (or Major)

Master of Arts (M.A.)

ADULT EDUCATION

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Adult Education
Concentration: n/a

EXAMPLE OF CONCENTRATION PAGE

Black denotes degree

Green denotes Program (or Major)

Blue denotes Concentration (or area of specialization)

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Adult Education

ADULT EDUCATION

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
ADULT EDUCATION

Master of Arts (M.A.) in Adult Education

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Adult Education
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: William H. Young
Other Contact: n/a
Phone: 813-974-1861
Fax: 813-974-3366
Email: wyoung@coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/ache/ade/ad.html
Mailing Address: University of South Florida
               College of Education
               Adult, Career and Higher Education
               4202 E. Fowler Avenue EDU162
               Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Adult Education program provides professional development opportunities to individuals concerned with the learning of adults. It includes courses and experiences for persons employed in or intending to enter adult education as a field of study. This degree is intended to help individuals work with adult learners in a wide variety of school and non-school settings. It is intended for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida. This Adult Education degree is a Plan III, non-certification option.

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

ADMISSION INFORMATION

Program Admission Requirements
In addition to meeting the University and College requirements, applicants must:
1) meet the College of Education specified minimum GPA requirements;
2) have proof of educational or professional experience;
3) submit three letters of recommendation stating that the applicant has the potential to successfully complete a master’s degree program;
4) submit a goals statement indicating the relationship between career plans and educational degree attainment;
5) obtain favorable recommendations for admission at the department and college levels and,
6) satisfy any additional academic requirements or prerequisites identified by the program.
Coursework may be allowed in lieu of the GPA or GRE requirement.

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer Deadline: March 1

DEGREE PROGRAM REQUIREMENTS

A minimum of 36 semester hours is required for the master's degree, at least 16 hours of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are inappropriate for the master's degree program. This program is available as a Plan III non-certification option.

Program of Study (non-thesis option) 36 hours
Process Core 6 hours: EDF 6481 or EDF 6432 and one approved Psychological or Social Foundations course.
General Adult Education (ADE 6080 or approved alternative) 4 hours
Specialization in Adult Education 12 hours, to include: Required Courses ADE 6385, EDG 6931 (prior approval needed). Remaining hours to be selected from
among: ADE 6160  ADE 6197  ADE 6280  ADE 6287  ADE 6370  ADE 6946  ADE 6161  ADE 6360  EDG 6906

Other Courses offered throughout the University may be selected as part of the remaining hours needed for degree completion based upon the student's selection and program advisor's approval. At least one course must be taken outside the program area.

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.

**Adult Education - Training and Staff Development Option**

The Training and Staff Development (TSD) track is designed to develop knowledge and specific competencies required to prepare trainers to function successfully in both profit and non-profit organizations. The coursework is derived from an analysis of theory and skills recognized as essential in improving employee performance. It is intended for holders of a non-education baccalaureate degree who do not wish to meet teacher certification requirements in the State of Florida. Individuals holding an education degree are also encouraged to participate in this program if they desire employment outside the school based environment.

This program is available as a Plan III, non-certification option. A minimum of 36 semester hours is required for the master’s degree, at least 16 hrs. of which must be at the 6000 level. Courses at the 7000 level are advanced graduate level courses and thus are generally inappropriate for the master’s degree program.

**Program of Study** (non-thesis option) - 36 hours

Process Core 6-7 hours: EDF 6432; EDF 6481 and a required Foundations (EDF) course listed in the Area of Concentration.

Concentration 24 hours (Requirements of up to 24 hours include the following, with substitutions to be made appropriate to the individual's background and experience.)

A practicum of 3-6 hours (ADE 6946) is required as part of the Concentration.)

ADE 6385  EDF 6165*  EDF 6166*  ADE 6946*  EDF 6281*  ADE 6370  EDF 6288*
ADE 6360  ADE 6161  MAN 6305 or MAN 6204 or SYO 6545  ADE 6360  EDG 6931  EDG 6906
*electives, or equivalent. 6 hours

Comprehensive Examination

**COURSES**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
# ADULT EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Adult Education

## DEGREE INFORMATION

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<tr>
<th><strong>Degree Offered:</strong></th>
<th>Master of Education - M.Ed.</th>
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<tbody>
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<td><strong>Degree Program:</strong></td>
<td>Curriculum and Instruction</td>
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<td><strong>Concentration:</strong></td>
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<tr>
<td><strong>Program Status:</strong></td>
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## CONTACT INFORMATION

<table>
<thead>
<tr>
<th><strong>Program Coordinator:</strong></th>
<th>William H. Young</th>
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<tbody>
<tr>
<td><strong>Other Contact:</strong></td>
<td>n/a</td>
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<tr>
<td><strong>Phone:</strong></td>
<td>813-974-1861</td>
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<tr>
<td><strong>Fax:</strong></td>
<td>813-974-3366</td>
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<tr>
<td><strong>Email:</strong></td>
<td><a href="mailto:wyuong@coedu.usf.edu">wyuong@coedu.usf.edu</a></td>
</tr>
<tr>
<td><strong>Web Address:</strong></td>
<td><a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
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</tbody>
</table>

Inactive. Currently, students are not being admitted to this program.
ADULT EDUCATION

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Adult Education

DEGREE INFORMATION

Degree Offered: Education Specialist - Ed.S.
Degree Program: Curriculum and Instruction
Concentration: Adult Education
Program Status: Active
Program Level: Specialist

CONTACT INFORMATION

Program Coordinator: William H. Young
Other Contact: n/a
Phone: 813-974-1861
Fax: 813-974-3366
Email: wyoung@coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
This Ed.S. program prepares practitioners and teachers for the broad field of Adult Education, includes public and proprietary schools, public schools, and non-school based settings such as business and industry, the professional associations, community agencies, and governmental units.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.5 Mast.
3. Proof of educational or professional experience
4. Coursework is allowed in lieu of GPA or GRE requirement
5. Letters of recommendation
6. Concept paper

ADMISSION INFORMATION

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Program of Study: 36 hours minimum
Specialization: 18 hours minimum
Electives: 9 hours
Thesis/Project: 9 hours
Comprehensive Examination
Oral defense of the project/thesis.

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.

COURSES

Courses include, but are not limited to:
ADE 7388; ADE 7937; ADE 7931; ADE 7910; ADE 7947; EVT 7168. See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Please check with program before applying
ADULT EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Adult Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: William H. Young
Other Contact: n/a
Phone: 813-974-3455
Fax: 813-974-3366
Email: adulted@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu
Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Prepares leaders, researchers, university faculty, and related personnel to serve in the broad field of adult education.

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

ADMISSION INFORMATION

Program Admission Requirements
1. Meet College minimum GRE requirements and minimum GPA requirements.
2. Submit a personal statement of the applicant’s vision/philosophy for Adult Education and its relationship to the future of Adult Education.
3. Submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence as it relates to the successful completion of doctoral studies.
4. Obtain favorable recommendations from the program faculty.
5. Satisfy any additional academic requirements or prerequisites identified by the program.

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Program of Study: 85-87 hours
Specialization/Concentration: 24 hours min.
Cognate Area (Measurement/Research Cognate Area Required): 12 hours
Curriculum and Instruction: 3 hours
Measurement/Statistics/Research Design: 11 - 16 hours
Psychological and Social Foundations: 7-8 hours
Dissertation (ADE 7980): 24 hours min.

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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
ADULT EDUCATION

Doctor of Education (Ed.D.) in Educational Program Development
Concentration: Adult Education

DEGREE INFORMATION

Degree Offered: Doctor of Education - Ed.D.
Degree Program: Educational Program Development
Concentration: Adult Education
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: William H. Young
Other Contact: n/a
Phone: 813-974-1861
Fax: 813-974-3366
Email: wyoung@coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
 Prepares leaders for adult, continuing education, and human resource development positions in a variety of employment settings. The program is designed to develop the competencies of educational practitioners and to obtain and synthesize knowledge for the solution of educational problems and practices.

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

ADMISSION INFORMATION

Program Admission Requirements

1. Have previous experience or a strong desire to work with adults in meeting their formal or informal education and/or training needs.

2. Meet the College minimum GRE and GPA requirements. GPA Minimum is 3.5. Coursework is allowed in lieu of GPA or GRE requirement.

3. Must provide proof of educational or professional experience.

4. Submit a personal statement of the applicant’s vision/philosophy for Adult Education and its relationship to the future of Adult Education.

5. Submit three letters of recommendation from persons knowledgeable about the applicant’s academic and professional competence as it relates to the successful completion of doctoral studies.

6. Obtain favorable recommendations from the program faculty.

7. Satisfy any additional academic requirements or prerequisites identified by the program.

Program Admission Deadlines
Fall Deadline: June 1
Spring Deadline: October 15
Summer Deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Program of Study: 76-80 hours
Specialization Courses: 24-28 hours
Curriculum and Instruction: 6 hours
Psychological and Social Foundations: 11-12 hours
Dissertation (ADE 7980): 24 hours min.

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.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

Three new courses are currently under review. Other courses include, but are not limited to: ADE 7388; ADE 7937; ADE 7931; ADE 7910; ADE 7947.
BUSINESS AND OFFICE EDUCATION

Master of Arts (M.A.) in Business and Office Education

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Business and Office Education
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Janet Scaglione
Other Contact: n/a
Phone: 813-974-0038
Fax: 813-974-3366
Email: scaglion@coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Contact program coordinator

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Coursework is allowed in lieu of GPA or GRE requirement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

A minimum of 33 hours is required for the master's degree, at least 16 hours of which must be 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. All three plans are available.

Contact program coordinator for more information.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
**BUSINESS AND OFFICE EDUCATION**

Master of Education (M.Ed.) in **Curriculum and Instruction**  
**Concentration:** Business and Office Education

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<td><strong>Degree Program:</strong> Curriculum and Instruction</td>
<td><strong>Other Contact:</strong> n/a</td>
</tr>
<tr>
<td><strong>Concentration:</strong> Business and Office Education</td>
<td><strong>Phone:</strong> 813-974-0038</td>
</tr>
<tr>
<td><strong>Program Status:</strong> Inactive</td>
<td><strong>Fax:</strong> 813-974-3366</td>
</tr>
<tr>
<td><strong>Program Level:</strong> Masters</td>
<td><strong>Email:</strong> <a href="mailto:Scaglion@coedu.usf.edu">Scaglion@coedu.usf.edu</a></td>
</tr>
<tr>
<td></td>
<td><strong>Web Address:</strong> <a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
</tr>
</tbody>
</table>

**Inactive.** Currently, students are not being admitted to this program.
CAREER AND TECHNICAL EDUCATION

Master of Arts (M.A.) in Career and Technical Education

PROGRAM INFORMATION

Program Description
The MA Degree in Career & Technical Education (CTE) is designed for practicing professionals in all areas of CTE including Business, Health Occupations, Industrial, Technology, Agriculture, Marketing and Public Service. The program is designed to assist instructors and current or aspiring leaders to enhance their instructional, program improvement and leadership competencies. This program is available only as a Plan III, non-certification option.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. Proof of at least 2 years of educational or professional experience
3. Proof of initial certification
4. Coursework is allowed in lieu of GPA or GRE requirement
5. An Interview

DEGREE PROGRAM REQUIREMENTS

Plan III - Current Trends (EVT 6661). At least 36-37 semester hours including course requirements in Career and Technical Education, Career Development (MHS 6340), Foundations Of Educational Research (EDF 6481), Microcomputers in Education (EME 5403), and one master’s level Educational Foundations course. This M.A. degree program does not lead to teacher certification. 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.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
COLLEGE STUDENT AFFAIRS

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: College Student Affairs

DEGREE INFORMATION
Degree Offered: Master of Education - M.Ed.
Degree Program: Curriculum and Instruction
Concentration: College Student Affairs
Program Status: Active
Program Level: Masters

CONTACT INFORMATION
Program Coordinator: Wilma J. Henry
Other Contact: Lorie A. Kittendorf
Phone: 813-974-9095
Fax: 813-974-7436
Email: csaprogram@sa.usf.edu
Web Address: http://csa.sa.usf.edu
Mailing Address:
University of South Florida
College of Education
College Student Affairs Program
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION
The College Student Affairs (CSA) M.Ed. Program at the University of South Florida fosters the intellectual and professional development of individuals seeking careers as student affairs administrators in institutions of higher education. Graduates will be prepared for entry level and mid-management positions in student affairs areas such as: residence life, career services, orientation, student activities, admissions, advising, and financial aid.

The CSA Program consists of 42 credit hours and admits 18-25 students each Fall semester. This program is designed for full-time students or individuals who currently hold full-time positions within the field of student affairs.

Program Description
The CSA Program at the University of South Florida emphasizes three major components: Foundational Studies, Professional Studies, and Supervised Practice, as recommended by the Council for the Advancement of Standards in Higher Education. The curriculum includes theories of human growth and development, environmental influences, and social science based interventions as 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.

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

ADMISSION INFORMATION
Program Admission Requirements
Applicants to the College Student Affairs (CSA) program must meet the admission requirements as established by the Graduate School and the College of Education and should have experience relevant to the program. For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Coursework is allowed in lieu of GPA or GRE requirement
5. Letters of recommendation
6. Complete an interview with a program committee. Program interviews take place one day per week from January through May.
7. A personal statement of professional goals, resume, and assistantship application.

An assistantship is required for all admitted students. Applicants are required to interview with assistantship supervisors for the various available positions. This process varies from department to department. Students are encouraged to attend the annual Open House event held every Spring to interview in person for assistantship placements. Applications from qualified candidates received by March 15, will have a better opportunity of securing their first choice of
assistantship. Students will be interviewed as applications arrive, and assistantship placements will be determined as soon as a match is made.

More detailed information about the program, application process, assistantships, and course sequences can be found on the website. http://csa.sa.usf.edu

Program Admission Deadlines
Fall deadline: March 15
Fall Admission only

DEGREE PROGRAM REQUIREMENTS
SDS 6042 Introduction to Student Affairs
SDS 6624 Ecology of Campus Life
SDS 6645 Student Development Theory
SDS 6701 Issues in Diversity
SDS 6703 The Law & Student Affairs
EDF 6165 Group Processes
EDF 6481 Foundations of Educational Research
EDF 6935 Wellness Programming
EDF 6281 Workshop & Conference Design
EDF 6944 Field Experience
EDG 6947 Internship
EDF 6938 Special Topics

A comprehensive examination is also required. Please contact the program for specific information.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
http://csa.sa.usf.edu/information/courseseq.htm
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: Biology

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: Biology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Jim Eison
Other Contact: n/a
Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu
Mailing Address: University of South Florida
                College of Education
                Adult, Career and Higher Education
                Tampa FL 33620

PROGRAM INFORMATION

Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores
Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Biology (BIO 90)
This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
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

OTHER INFORMATION
Please access the program’s website via www.coedu.usf.edu Consult the program coordinator prior to applying.
# COLLEGE TEACHING

**Master of Arts (M.A.) in College Teaching**  
**Concentration:**  **Business**

## DEGREE INFORMATION

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<tr>
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## CONTACT INFORMATION

<table>
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<tr>
<th>Program Coordinator</th>
<th>Jim Eison</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Contact</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone</td>
<td>813-974-4697</td>
</tr>
<tr>
<td>Fax</td>
<td>813-974-3366</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:jeison@tempest.coedu.usf.edu">jeison@tempest.coedu.usf.edu</a></td>
</tr>
<tr>
<td>Web Address</td>
<td><a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
</tr>
</tbody>
</table>

## Mailing Address

University of South Florida  
College of Education  
Adult, Career and Higher Education  
Tampa FL 33620

## PROGRAM INFORMATION

**Program Description**

A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

**Accreditation:** Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

## ADMISSION INFORMATION

Program may have admission requirements in addition to those required by the College. For example, students in this program are required to submit a GMAT score in addition to other requirements. Please check with the program coordinator prior to applying.

**Program Admission Requirements**

For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

## PROGRAM DEGREE REQUIREMENTS

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites.

A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

**COURSES -** [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

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.
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: Chemistry

DEGREE INFORMATION
Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: Chemistry
Program Status: Active
Program Level: Masters

CONTACT INFORMATION
Program Coordinator: Jim Eison
Other Contact: n/a
Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu
Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
Tampa FL 33620

PROGRAM INFORMATION
Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION
Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement.

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS
This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

COURSES
http://www.ugs.usf.edu/sab/sabs.cfm
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.
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: Economics

DEGREE INFORMATION

Degree Offered:          Master of Arts - M.A.
Degree Program:          College Teaching
Concentration:           Economics
Program Status:          Active
Program Level:           Masters

CONTACT INFORMATION

Program Coordinator:     Jim Eison
Other Contact:           Phone: 813-974-4697
                         Fax: 813-974-3366
                         Email: jeison@tempest.coedu.usf.edu
                         Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
Tampa FL 33620

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

COURSES
http://www.ugs.usf.edu/sab/sabs.cfm

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
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: Engineering

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: Engineering
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Jim Eison
Other Contact: 813-974-4697
Phone: 813-974-3366
Fax: jeison@tempest.coedu.usf.edu
Email: http://www.coedu.usf.edu
Web Address: http://www.coedu.usf.edu

ADMISSION INFORMATION

Students admitted to this program must have an engineering degree.

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

PROGRAM INFORMATION

Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Students admitted to this program must have an engineering degree.

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

COURSES - http://www.ugs.usf.edu/sab/sabs.cfm
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.
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: English

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: English
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Jim Eison
Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu

PROGRAM INFORMATION

Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS:

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

COURSES - http://www.ugs.usf.edu/sab/sabs.cfm
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
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: French

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: French
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Jim Eison
Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
Tampa FL 33620

PROGRAM INFORMATION

Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

COURSES - http://www.ugs.usf.edu/sab/sabs.cfm
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.
# COLLEGE TEACHING

**Master of Arts (M.A.) in College Teaching**  
**Concentration: Geography**

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<td><strong>Program Coordinator:</strong> Jim Eison</td>
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<td><strong>Degree Program:</strong> College Teaching</td>
<td><strong>Other Contact:</strong> n/a</td>
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<tr>
<td><strong>Concentration:</strong> Geography</td>
<td><strong>Phone:</strong> 813-974-4697</td>
</tr>
<tr>
<td><strong>Program Status:</strong> Inactive (This concentration is no longer available)</td>
<td><strong>Fax:</strong> 813-974-3366</td>
</tr>
<tr>
<td><strong>Program Level:</strong> Masters</td>
<td><strong>Email:</strong> <a href="mailto:jeison@tempest.coedu.usf.edu">jeison@tempest.coedu.usf.edu</a></td>
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<td><strong>Web Address:</strong> <a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
</tr>
</tbody>
</table>
|                                              | **Mailing Address:** University of South Florida  
|                                               | College of Education  
|                                               | Adult, Career and Higher Education  
|                                               | Tampa FL 33620 |

**Inactive.** Currently, students are not being admitted to this program.
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: Geology

DEGREE INFORMATION
Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: Geology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION
Program Coordinator: Jim Eison
Other Contact: Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu
Mailing Address: University of South Florida
College of Education
Adult, Career and Higher Education
Tampa FL 33620

PROGRAM INFORMATION
Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION
Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS
This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

COURSES - http://www.ugs.usf.edu/sab/sabs.cfm
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.
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: History

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: History
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Jim Eison
Other Contact: n/a
Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu
Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
Tampa FL 33620

PROGRAM INFORMATION

Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

COURSES - http://www.ugs.usf.edu/sab/sabs.cfm
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
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: Mathematics

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: Mathematics
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Jim Eison
Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu
Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
Tampa FL 33620

PROGRAM INFORMATION

Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

This program requires 36-39 hours minimum, including an internship. Program of Study Process Core 3 hours EDF 6432 Current Trends – 3 hours EDH 6061 Professional Education Requirement 12 hours 6 hours EDH 6061 EDH 6938 ADE 6385 EDF 6432 Concentration 21-24 hours minimum The sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a Concentration area that is roughly equivalent to the pattern of the appropriate USF major. Students admitted without such preparation may be required to take additional coursework as prerequisites. A well-prepared student who is well-prepared in the concentration may be permitted to take fewer courses in the Concentration area, substituting approved electives from other fields of study. Internship 3-6 hours Full-time Supervised teaching for one semester or part-time teaching for or two semesters. One-half of the internship must be in the community college, the setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework Comprehensive Examination Please contact program coordinator for specific program requirements.

COURSES - http://www.ugs.usf.edu/sab/sabs.cfm
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.
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: Physics

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: Physics
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Jim Eison
Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu
Mailing Address: University of South Florida
College of Education
Adult, Career and Higher Education
Tampa FL 33620

PROGRAM INFORMATION

Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

COURSES - http://www.ugs.usf.edu/sab/sabs.cfm
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.
# COLLEGE TEACHING

## Master of Arts (M.A.) in College Teaching

**Concentration:** Political Science

### DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Master of Arts - M.A.</th>
</tr>
</thead>
<tbody>
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<td>Degree Program:</td>
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<td>Program Level:</td>
<td>Masters</td>
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</table>

### CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Program Director:</th>
<th>Jim Eison</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Contact:</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-4697</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-3366</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:jeison@tempest.coedu.usf.edu">jeison@tempest.coedu.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
</tr>
</tbody>
</table>

**Mailing Address:**
- University of South Florida
- College of Education
- Adult, Career and Higher Education
- Tampa FL 33620

### PROGRAM INFORMATION

**Program Description**

A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

**Accreditation:** Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

### ADMISSION INFORMATION

**Program Admission Requirements**

For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

**Program Admission Deadlines**

- Fall deadline: June 1
- Spring deadline: October 15
- Summer deadline: March 1

### DEGREE PROGRAM REQUIREMENTS

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

**COURSES** - [http://www.ugs.usf.edu/sah/sabs.cfm](http://www.ugs.usf.edu/sah/sabs.cfm)

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.
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: Sociology

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: Sociology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Jim Eison
Other Contact: n/a
Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
Tampa FL 33620

PROGRAM INFORMATION

Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3- 6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

COURSES - http://www.ugs.usf.edu/sab/sabs.cfm
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.
COLLEGE TEACHING

Master of Arts (M.A.) in College Teaching
Concentration: Spanish

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: College Teaching
Concentration: Spanish
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Jim Eison
Phone: 813-974-4697
Fax: 813-974-3366
Email: jeison@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
Tampa FL 33620

PROGRAM INFORMATION

Program Description
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

Accreditation: Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS:

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

COURSES - http://www.ugs.usf.edu/sab/sabs.cfm
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
**COLLEGE TEACHING**

Master of Arts (M.A.) in College Teaching
Concentration: Speech Communication

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### DEGREE INFORMATION

**Degree Offered:** Master of Arts - M.A.  
**Degree Program:** College Teaching  
**Concentration:** Speech Communication  
**Program Status:** Active  
**Program Level:** Masters

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### CONTACT INFORMATION

**Program Director:** Jim Eison  
**Other Contact:** n/a  
**Phone:** 813-974-4697  
**Fax:** 813-974-3366  
**Email:** jeison@tempest.coedu.usf.edu  
**Web Address:** [http://www.coedu.usf.edu](http://www.coedu.usf.edu)

**Mailing Address:**  
University of South Florida  
College of Education  
Adult, Career and Higher Education  
Tampa FL 33620

---

### PROGRAM INFORMATION

**Program Description**
A program for holders of baccalaureate degrees who wish to teach at the Community College Level. This program does not lead to teacher certification in the State of Florida.

**Accreditation:** Programs in the College of Education are accredited by the Southern Association of Colleges and Schools.

### ADMISSION INFORMATION

**Program Admission Requirements**
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency  
2. Submit passing TOEFL scores  

Requirements for all applicants include:  
1. GRE Required  
2. Minimum GPA of 3.0  
3. Proof of educational or professional experience  
4. Letters of recommendation  
5. Concept Paper or goal statement

**Program Admission Deadlines**
- Fall deadline: June 1  
- Spring deadline: October 15  
- Summer deadline: March 1

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### DEGREE PROGRAM REQUIREMENTS

This program requires 36-39 hours minimum, including an internship. In part, the course sequence to be completed will be designed in consultation with an advisor in the concentration area. This program is based on the assumption that the student has an undergraduate background in a concentration area that is a close equivalent to the concentration being pursued in this degree. Students admitted without such preparation may be required to take additional coursework as prerequisites. A student who is well-prepared in the specialization may be permitted to take fewer courses in the concentration area, substituting approved electives from other fields of study. An internship of 3-6 hours with full-time supervised teaching for one semester or part-time teaching for two semesters is required. One-half of the internship must be in the community college setting. The setting for the other half is left to the discretion of the student’s advisor. The internship follows the completion of professional education coursework. The successful completion of a Comprehensive Examination is also required.

Please consult the program coordinator for specific information on program requirements.

**COURSES** - [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

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.
# Counselor Education (M.A.)

## Degree Information

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Master of Arts - M.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree Program:</td>
<td>Guidance and Counselor Education</td>
</tr>
<tr>
<td>Concentration:</td>
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<tr>
<td>Program Status:</td>
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</tr>
<tr>
<td>Program Level:</td>
<td>Masters</td>
</tr>
</tbody>
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## Program Description

The Counselor Education program 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. All students complete a common core of courses plus additional courses appropriate to their chosen program. Included are courses in communication skills, counseling theory, research, practicum, and internship. In addition to the Master's degree, the Educational Specialist degree, and the Doctoral degree, the program offers Graduate Certificates in Play Therapy, Mental Health Counseling, and Career Counseling. For program requirements for the Educational Specialist degree and the Doctoral degree, refer to the Curriculum and Instruction Degree Program or contact the program coordinator for information. The program offers three plans for a Master of Arts degree.

### School Counseling (Plan II)
Prepares counselors to work in school grades K through 12. Upon completion of this program, students are eligible to be certified by the Florida Department of Education as a School Counselor.

### Community/Mental Health Counseling (Plan III)
Prepares counselors to work in community mental health settings and provides the educational preparation to seek licensure as a Florida Licensed Mental Health Counselor. (Note: A post-master's supervised internship and an examination are required by the state)

## Contact Information

<table>
<thead>
<tr>
<th>Program Coordinator:</th>
<th>Herbert A. Exum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Contact:</td>
<td>Sandy Turner, Prog. Asst.</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-3515</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-5814</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:counseled@coedu.usf.edu">counseled@coedu.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://www.coedu.usf.edu/deptpsysoc/ce/ce.htm">http://www.coedu.usf.edu/deptpsysoc/ce/ce.htm</a></td>
</tr>
</tbody>
</table>

## Mailing Address:
University of South Florida  
College of Education  
Social and Psychological Foundations  
4202 E. Fowler Avenue EDU162  
Tampa FL 33620

## Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required
2. Minimum GPA of 3.0
3. CLAST/GKT Required
4. Proof of educational or professional experience
5. Proof of initial certification
6. Letters of recommendation

## Admissions Information

### Fall Deadline: March 1
Fall Admission only.
DEGREE PROGRAM REQUIREMENTS

Contact the program assistant for detailed information prior to applying.

School Counseling (Plan II) Track
The School Counseling Program prepares counselors for employment in elementary, middle and/or high schools. The program is designed to produce educationally oriented counselors with broadly based, multidisciplinary backgrounds. Graduates are trained to counsel students to consult with parents, teachers, and other school personnel, to coordinate the resources of the family, school, and the community to meet the developmental needs of students. Upon completion of the program, students in this plan are eligible to become a Florida Certified School Counselor. The School Counseling Program Plan is 50 to 53 hours.

Program of Study – 61 hours minimum
Process Core - 8 hours  EDF 6354 (4) EDF 6217 (4)
MHS 6006 Current Trends in Counseling (4)
EDF 6481 Research (3)
MHS 6450 Substance Abuse (4)
MHS 6420 Multicultural Issues (3)
MHC 6480 Human Sexuality (4)
Counseling Core - 23 hours
MHS 6200  MHS 6340  MHS 6400
MHS 6509 MHS 6700 MHS 6800 or SDS 6801
School Counseling Concentration - 9 hours
MHS 6601  SDS 6820 MHS 6930
Comprehensive Examination
Refer to www.coedu.usf.edu/sas for internship and State of Florida testing requirements.

Plan III--Community Counseling
Plan III programs are for students who prefer to work in community based counseling positions rather than in elementary or secondary schools. There are two Plan III program options: (a) Mental Health Counseling and (b) Career Counseling.

A. The Community/Mental Health Counseling concentration prepares students to work in a variety of community settings. This program is relatively broad in scope and focuses on the development of general counseling skills that can be applied to a wide range of clients in diverse settings. The program is designed to meet the curriculum requirements for licensure as a Mental Health Counselor in Florida. Graduates of this plan are eligible to take the state examination and to become a Florida registered intern (a post-master's degree requirement). The Community/Mental Health Counseling plan requires 60 credit hours.

Program of Study  60-62 hours minimum
Process Core  EDF 6354 (4)
Current Trends in Counseling MHS 6006 (4)
Research EDF 6481(3)
Multicultural Issues MHS 6420 (3)
Counseling Core - 23 hours

MHS 6200  MHS 6340  MHS 6400
MHS 6509  MHS 6700  MHS 6800
Mental Health Specialization - 23 hours
MHS 6620  MHS 6700  MHS 6450
MHS 6480  MHS 6885
Comprehensive Examination

B. The Community/Career Counseling specialization (a.k.a.concentration) focuses on the life-career development needs of individuals and groups. Individuals with this specialization typically find employment opportunities in career centers of community colleges and universities, as well as businesses and in individual practice. This specialization provides the curriculum for students to become Nationally Certified Counselors which can be acquired by passing the National Counselor Examination and completion of two years of post-masters supervised counseling experience. The plan is designed to prepare effective career counselors; it does not lead to school counseling certification nor community/mental health licensure (additional course work would be required). The Career Counseling program plan requires a minimum of 52 credit hours.

Program of Study  52-54 hours minimum
Process Core
EDF 6354 (4)
MHS 6006 Current Trends in Counseling (4)
EDF 6481 Research (3)
MHS 6420 Multicultural Issues (3)
Counseling Core 23 hours
MHS 6200  MHS 6340  MHS 6400
MHS 6509  MHS 6700  MHS 6800
Career Counseling Specialization - 12 hours
MHS 6601  MHS 6341  MHS 6885
Elective (Options include the following) - 3 hours
INP 6056  INP 6935  RCS 6300
EVT 6264  EVT 6769  SDS 6042
Comprehensive Examination

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION
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. Graduate Certificates are also available in several areas. More information on the certificate programs can be obtained from the Graduate Certificate website: http://www.outreach.usf.edu/gradcerts/certinfo.asp?certname=GE
COUNSELOR EDUCATION

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Guidance and Counseling

DEGREE INFORMATION

Degree Offered: Education Specialist - Ed.S.
Degree Program: Curriculum and Instruction
Concentration: Guidance and Counseling
Program Status: Active
Program Level: Specialist

CONTACT INFORMATION

Program Coordinator: Herbert A. Exum
Other Contact: Sandy Turner, Prog. Asst.
Phone: 813-974-3515
Fax: 813-974-5814
Email: counseled@coedu.usf.edu
Web Address: http://www.coedu.usf.edu
Mailing Address:
University of South Florida
College of Education
Psychological and Social Foundations
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Ed.S. Degree in Curriculum and Instruction with Concentration in Guidance and Counseling is 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.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum master’s grade point average of 3.5
3. Vita or resume
4. Proof of educational or professional experience
5. Letters of recommendation
6. Interview
7. Personal statement describing the applicant’s professional goals and reasons for applying to the program are required.

DEGREE PROGRAM REQUIREMENTS
Contact Program for information.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION
This program has internal deadlines and is limited access. Please check with program prior to applying.
COUNSELOR EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Guidance and Counseling

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Guidance and Counseling
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: Herbert A. Exum
Other Contact: Sandy Turner, Prog. Asst.
Phone: 813-974-3515
Fax: 813-974-5814
Email: counsel@coedu.usf.edu
Web Address: http://www.coedu.usf.edu

PROGRAM INFORMATION

Program Description
The Ph.D. Degree in Curriculum and Instruction with Concentration in Guidance and Counseling 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 program emphasizes research and theory as opposed to clinical skill development and is designed primarily for students who wish to pursue careers in academic institutions.

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

Major Research Areas: Career development, clinical supervision, mental health counseling, multicultural counseling, and play therapy.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum master’s grade point average of 3.5
3. Vita or resume
4. Proof of educational or professional experience. A 48-semester hour Master’s degree in counseling or a closely related specialty and at least three (3) years of post-master’s professional work experience are required
5. Three (3) letters of recommendation
6. Personal interviews will also be required for all candidates except in situations that would require extensive travel.
7. Personal statement describing the applicant’s professional goals and reasons for applying to the program

Program Admission Deadlines
Fall Deadlines: March 1
Fall Admission only.

DEGREE PROGRAM REQUIREMENTS

Program of Study: 70 hours
Research Core: 28 hours
Theory: 15 hours
Clinical Core: 12-16 hours
Professional Practice: 6 hours
Cognate: 9-12 hours

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION
This is a limited access program that has internal deadlines. Please check with program prior to applying.
CURRICULUM AND INSTRUCTION

Master of Education (M.Ed.) in Curriculum and Instruction

DEGREE INFORMATION

Degree Offered: Master of Education - M.Ed.
Degree Program: Curriculum and Instruction
Concentration: 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.

Program Status: Active
Program Level: Masters
Also see: See individual concentration areas

CONTACT INFORMATION

Web Address: http://www.coedu.usf.edu
Mailing Address: University of South Florida
College of Education
(Here list the name of your concentration area.)
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
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. programs than the M.A. programs. Coursework in the specialization may include courses in college other than the College of Education. The Curriculum and Instruction program is offered with specialization areas. General program requirements are listed below. For specific specialization requirements, contact the appropriate department.

Accreditation: Programs in the College are accredited by the Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Refer to each area of concentration for program admission requirements or contact the program for assistance.

DEGREE PROGRAM REQUIREMENTS

College of Education Program Requirements for the Master of Education degree (M.Ed.)

The M.Ed. degree in Curriculum and Instruction requires a minimum of 33 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.

Program of Study Degree Requirements (minimums)
Process Core - 12 hours minimum
EDF 6432  EDF 6481  EDF 6211 or EDF 6215 or equivalent
EDF 6517 or EDF 6544 or EDF 6606 or equivalent
Curriculum and Instruction (EDG 6627) - 3 hours minimum; a prerequisite may be required at the undergraduate level
Content Concentration/Specialization - 18 hours minimum Comprehensive Examination
Individual areas of specialization may have variations in requirements. For information contact the department/program offering the concentration.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
CURRICULUM AND INSTRUCTION

Education Specialist (Ed.S.) in Curriculum and Instruction

DEGREE INFORMATION

Degree Offered: Education Specialist - Ed.S.
Degree Program: Curriculum and Instruction
Concentration: 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.

Program Status: Active
Program Level: Specialist
Also see: See individual concentration areas listed alphabetically in the catalog.

CONTACT INFORMATION

Web Address: http://www.coedu.usf.edu
Mailing Address: University of South Florida
        College of Education
        (Here list the name of your concentration area.)
        4202 E. Fowler Avenue EDU162
        Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Ed.S. degree consists of a minimum of 36 hours beyond the master's degree and is flexible in its requirements. The degree is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. Consequently, the degree program has few required courses, and each student's program is individually planned in consultation with a faculty program committee. Courses at the 5000 level are inappropriate; and a minimum of 15 hours should be taken at the 7000 level.

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

ADMISSION INFORMATION

Refer to each area of concentration for program admission requirements or contact the program for assistance.

DEGREE PROGRAM REQUIREMENTS

Specialization (Concentration) Coursework - 27 hours minimum
Thesis/Project - 9 hours minimum
Comprehensive Exam (Oral and/or written)
Oral defense of the thesis/project

Thesis/Project - 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 program to the resolution of significant needs arising from professional practice. A minimum of 9 semester hours of thesis enrollment is required in the Ed.S. degree program. Students are required to enroll for a minimum of 2 semester hours in the 6971 thesis course each semester while working on the Ed.S. project and for 2 semester hours in the semester in which the student plans to graduate. Students who have not completed the project after enrolling in the required 9 hours must continue to enroll in a minimum of 2 credit hours of 6971 Thesis each semester, including the semester in which the project is submitted to the College Associate Dean for Academic Affairs or the Graduate School (School Psychology students). Students must have an oral defense of the project/thesis with their project/thesis supervisory committee. Individual areas of specialization may have additional requirements. For information contact the department/program offering the concentration.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm
CURRICULUM AND INSTRUCTION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction

DEGREE INFORMATION
Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: 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.

Program Status: Active
Program Level: Doctoral
Also see: See individual concentration areas

CONTACT INFORMATION
Web Address: [http://www.coedu.usf.edu](http://www.coedu.usf.edu)
Mailing Address:
University of South Florida
College of Education
(Here list the name of your concentration area.)
4202 E. Fowler Avenue EDU162
Tampa, FL 33620

PROGRAM INFORMATION
Program Description
The Doctor of Philosophy degree is available in Curriculum and Instruction with specializations in the following areas: Adult Education, College Student Affairs, Counselor Education, Early Childhood Education, Elementary Education, English Education, Higher Education (includes a specialization in Community College Teaching), Instructional Technology, Interdisciplinary Education, Mathematics Education, Measurement and Evaluation, Music Education (contact the College of Visual and Performing Arts), Reading/Language Arts Education, Science Education, Secondary Education, Secondary Education (Social Science Concentration,) Special Education, and Vocational Education (currently closed).

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

Major Research Areas: Information available by accessing the concentration areas, listed alphabetically in the catalog.

ADMISSION INFORMATION
Refer to each area of concentration for program admission requirements or contact the program for assistance.

PROGRAM DEGREE REQUIREMENTS
General Program Requirements for the C&I degree, (minimum requirements):

Program of Study – 75-81 hours minimum
Concentration - 18 hours minimum
Curriculum and Instruction - 3 hours
Cognate Area - 12 hours minimum
Statistics/Measurement/Research Design - 11-16 hours
Psychological and Social Foundations - 7-8 hours
Dissertation - 24 hours

Dissertation- Beginning with the semester immediately following admission to candidacy, the student must be enrolled for a minimum of 12 dissertation credit hours in each 12-month period for the first two years after being admitted to candidacy. Students may complete the 12 hours in either two or three semesters but must be enrolled for dissertation hours in the Fall and Spring semesters of each year during the two year (24-month) period. Students may elect not to register for dissertation hours during the summer semester if in this two-year period they are not using university facilities or other USF resources, including faculty and staff time. If such resources are being used, then enrollment in a minimum of two dissertation hours during the Summer semester is required. If the dissertation is not completed by the time the 24 hours of dissertation credit have been accrued, students must enroll continuously, including Summer semester, for a minimum of two dissertation
hours per semester until graduation. (This includes the semester during which the dissertation is defended and the semester in which final submission of the dissertation is made to the Graduate School).

Exceptions to the continuous enrollment policy may be approved if the major professor writes a letter of petition to the Associate Dean for Academic Affairs, indicating specifically the nature and duration of the exception and the justification. Unless an exception has been approved, failure to enroll as specified will result in dismissal of the student from the program. To be readmitted, the student must secure permission from the major professor and write a letter of petition, co-signed by the major professor, to the Associate Dean for Academic Affairs, outlining in detail a timeline for completing the dissertation. The Associate Dean for Academic Affairs will approve or deny the petition. This process will be independent of, and will not replace, any procedures required by the University or the Graduate School.

**Residency** - Students must enroll for at least nine hours in each of two semesters in a 12-month period. The Ph.D. program requires that during the residency period, students may be employed no more than half-time. Individual programs may have additional residency requirements.

**Doctoral Qualifying Examination** - Students must demonstrate satisfactory performance on the Doctoral Qualifying Examination before admission to candidacy. (See current College of Education Graduate Handbook, www.coedu.usf.edu, click on information; also consult Faculty Program contact).

Individual areas of specialization may have variations in the requirements. For information contact the department/program offering the specialization of interest.

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.

**COURSES**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
DISTRIBUTIVE AND MARKETING EDUCATION

Master of Arts (M.A.) in Distributive and Marketing Education

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<tr>
<th>DEGREE INFORMATION</th>
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<tbody>
<tr>
<td><strong>Degree Offered:</strong> Master of Arts - M.A.</td>
<td><strong>Program Coordinator:</strong> Janet Scaglione</td>
</tr>
<tr>
<td><strong>Degree Program:</strong> Distributive and Marketing Education</td>
<td><strong>Other Contact:</strong></td>
</tr>
<tr>
<td><strong>Concentration:</strong> n/a</td>
<td><strong>Phone:</strong> 813-974-3455</td>
</tr>
<tr>
<td><strong>Program Status:</strong> Inactive. This program is no longer available. Please contact the department for other available options</td>
<td><strong>Fax:</strong></td>
</tr>
<tr>
<td><strong>Program Level:</strong> Masters</td>
<td><strong>Email:</strong> <a href="mailto:scaglione@coedu.usf.edu">scaglione@coedu.usf.edu</a></td>
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<td></td>
<td><strong>Web Address:</strong> <a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
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<td><strong>Mailing Address:</strong> University of South Florida</td>
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<td>College of Education</td>
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<td>Tampa FL 33620</td>
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**Inactive.** Currently, students are not being admitted to this program.
## DISTRIBUTIVE EDUCATION

**Master of Education (M.Ed.) in Curriculum and Instruction**

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<tr>
<th>DEGREE INFORMATION</th>
<th>CONTACT INFORMATION</th>
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<tbody>
<tr>
<td><strong>Degree Offered:</strong> Master of Education - M.Ed.</td>
<td><strong>Program Coordinator:</strong> Please refer all inquiries to the department</td>
</tr>
<tr>
<td><strong>Degree Program:</strong> Curriculum and Instruction</td>
<td><strong>Phone:</strong> 813-974-3455</td>
</tr>
<tr>
<td><strong>Concentration:</strong> Distributive Education</td>
<td><strong>Web Address:</strong> <a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
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<tr>
<td><strong>Program Status:</strong> Inactive.</td>
<td><strong>Mailing Address:</strong> University of South Florida</td>
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<td><strong>Program Level:</strong> Masters</td>
<td>College of Education</td>
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<td>Adult, Career and Higher Education</td>
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**Inactive.** Currently, students are not being admitted to this program.
EARLY CHILDHOOD EDUCATION

Master of Arts (M.A.) in Early Childhood Education

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Early Childhood Education
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Elizabeth Ethridge
Other Contact: NA
Phone: 813-974-1029
Fax: 813-974-0938
Email: Ethridge@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/

Mailing Address:
University of South Florida
College of Education
Childhood Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Consult the Early Childhood Education program coordinator for more information.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE required for applicants with an upper-division GPA below 3.0.
2. Minimum GPA of 3.5
3. Proof of educational or professional experience
4. Proof of initial certification (M.A.)

Program Admission Deadlines
Fall Deadline: June 1
Spring Deadline: October 15
Summer Deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Contact the Early Childhood Education program coordinator for specific information.

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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
EARLY CHILDHOOD EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Early Childhood Education

DEGREE INFORMATION

Degree Offered: Master of Education - M.Ed.
Degree Program: Curriculum and Instruction
Concentration: Early Childhood Education
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Elizabeth Ethridge
Phone: 813-974-1029
Fax: 813-974-0938
Email: ethridge@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/ce/ce.html

PROGRAM INFORMATION

Program Description
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 a related field and wish to improve their skills in teaching young children. When previous professional preparation does not meet graduate course prerequisites, candidates will be expected to complete undergraduate courses as determined through conference with faculty advisor upon admission to the program. This program is not a teacher certification preparation program.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE required for applicants with an upper-division GPA below 3.0
2. Minimum GPA of 2.5
3. Proof of educational or professional experience

Program Admission Deadlines
Fall Deadline: June 1
Spring Deadline: October 15
Summer Deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Contact the Early Childhood Education program coordinator for specific information.

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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
**EARLY CHILDHOOD EDUCATION**

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Early Childhood Education

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<td>Degree Offered: Education Specialist - Ed.S.</td>
<td>Program Coordinator: N/A</td>
</tr>
<tr>
<td>Degree Program: Curriculum and Instruction</td>
<td>Other Contact: Christine Miranda</td>
</tr>
<tr>
<td>Concentration: Early Childhood Education</td>
<td>Phone: 813-974-3463</td>
</tr>
<tr>
<td>Program Status: Inactive</td>
<td>Mailing Address:University of South Florida</td>
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<tr>
<td>Program Level: Specialist</td>
<td>College of Education</td>
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<td>Childhood Education</td>
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Inactive program. Currently, no students are being admitted to this program.
EARLY CHILDHOOD EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Early Childhood Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy – Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Early Childhood Education
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: Pamela O. Fleege
Other Contact: N/A
Phone: 813-974-3460
Fax: 813-974-0938
Email: Fleege@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/ce/ce.html
Mailing Address:
University of South Florida
College of Education
Childhood Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
This program prepares leaders in the field of Early Childhood Education such as college and university faculty, directors of programs for school systems, directors in private settings, curriculum specialists and advocates for young children and families.

The program is designed to provide expertise in research into learning processes, designing and evaluating instructional materials and teaching techniques, university and college teaching, and the teaching of diverse learners.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.5 Masters
3. Proof of educational or professional experience
4. Proof of initial certification
5. Letters of recommendation
6. Interview
7. Concept Paper or goal statement

Program Admission Deadlines
Fall Deadline: June 1
Spring Deadline: October 15
Summer Deadline: March 1

DEGREE PROGRAM REQUIREMENTS

The program requires a minimum of 75-81 hours beyond the Master’s degree. Each student’s program is individually planned in consultation with a faculty program committee.

For more detailed information see our website at www.coedu.usf.edu/main/

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
EDUCATIONAL LEADERSHIP

Master of Education (M.Ed.) in Educational Leadership

DEGREE INFORMATION

Degree Offered: Master of Education - M.Ed.
Degree Program: Educational Leadership
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Jeff Hall
Phone: 813-974-1344
Fax: 813-974-5423
Email: jhall@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/edlead/edlead.html

Mailing Address:
University of South Florida
College of Education
Educational Leadership and Policy Studies
4202 E. Fowler Avenue EDU162
Tampa FL 33620-5650

PROGRAM INFORMATION

Program Description
The M.Ed. is designed to improve performance in K-12 school leadership. The degree provides coursework that meets Florida Educational Leadership Core Curriculum requirements in public school curriculum and instruction, organizational management and development, human resource management and development, leadership skills, communication skills, technology, educational law, and educational finance. Successful completion of the program fulfills degree and core curriculum requirements for Florida certification in Level I K-12 Educational Leadership– Administrative Class. For complete requirements contact M.Ed. advisor.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS); The National Council for the Accreditation of Teacher Education (NCATE); and the Florida Department of Education.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores
Requirements for all applicants include:
1. Minimum GPA of 3.0
2. CLAST/GKT

3. Proof of educational or professional experience
4. Proof of initial certification
5. Coursework may be allowed in lieu of GPA or GRE requirement
6. Letters of recommendation

Program Admission Deadlines
Fall Deadline: June 1
Spring Deadline: October 15
Summer Deadline: March 1

DEGREE PROGRAM REQUIREMENTS
Program of Study, Comprehensive Examination/Portfolio

Program of Study 36 hours min
Required Courses 36 hours
Area A: Core (9 hours)
EDF 6492, EDG 6627, EME 6425

Area B: Leadership Concentration (24 hours)
EDA 6061, EDA 6106, EDA 6192, EDA 6232, EDA 6242, EDA 6503, EDG 6285, EDS 6050

Area C: Field Experience (3 hours)
EDA 6945

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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
EDUCATIONAL LEADERSHIP

Education Specialist (Ed.S.) in Educational Leadership

DEGREE INFORMATION

Degree Offered: Education Specialist - Ed.S.
Degree Program: Educational Leadership
Concentration: n/a
Program Status: Active
Program Level: Specialist

CONTACT INFORMATION

Program Director: Bill Benjamin
Phone: 813-974-3422
Fax: 813-974-5423
Email: Benjamin@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/edlead/edlead.html
Mailing Address:
University of South Florida
Educational Leadership and Policy Studies
Educational Leadership Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620-5650

PROGRAM INFORMATION

The Ed.S. degree is an advanced graduate degree beyond the master’s degree but below the Ed.D. The Ed.S. is designed to provide professional educators with an opportunity to develop competencies in areas of special needs and interests. The degree consists of a minimum of 36 hours, including 9 hours for the specialist thesis/project. Beyond the required specialization courses, the degree is flexible, and each student’s program is individually planned in consultation with a 3-member faculty program committee.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS); the National Council for the Accreditation of Teacher Education (NCATE); and the Florida Department of Education.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.5 Masters
3. Proof of educational or professional experience
4. Proof of initial certification
5. Letters of recommendation

DEGREE PROGRAM REQUIREMENTS

Program of Study, Comprehensive Examination, specialist thesis/project (including oral defense)

Program of Study: 36 hours min.
Specialization: 27 hours
Required Specialization Courses: 15 hours
EDA 7222, EDA 7233, EDA 7247, EDA 7130, and EDG 7667 or EDG 7692
Specialization Electives: 9 hours
taken at the 6000 or 7000 level
Core Elective: 3 hours
taken from the Department of Educational Measurement/Research
Thesis/Project: 9 hours
EDA 6971, includes written comprehensive examination and oral defense of thesis/project.
Comprehensive Examination

Refer to College listing and Ed.S. Advisor for additional information. 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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
EDUCATIONAL LEADERSHIP

Doctor of Education (Ed.D.) in Educational Leadership

DEGREE INFORMATION

Degree Offered: Doctor of Education - Ed.D.
Degree Program: Educational Leadership
Concentration: n/a
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Bill Benjamin
Other Contact: n/a
Phone: 813-974-3422
Fax: 813-974-5423
Email: Benjamin@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/edlead/edlead.html
Mailing Address:
University of South Florida
Educational Leadership and Policy Studies
Educational Leadership Program
4202 E. Fowler Avenue, EDU162
Tampa, FL 33620-5650

PROGRAM INFORMATION

The Ed.D. degree is designed to improve professional practice by enhancing the ability of professional educators to obtain, analyze, and synthesize information at an advanced level for effective education decision making.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools (SACS); the National Council for the Accreditation of Teacher Education (NCATE); and the Florida Department of Education.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.5 Masters
3. Proof of educational or professional experience
4. Proof of initial certification
5. Letters of recommendation

DEGREE PROGRAM REQUIREMENTS


Program of Study: 76 hours minimum
Required courses (30 hours): EDG 7667, EDG 7692, and EDG 7980 Dissertation (24 hours)

Required Concentration Courses: 24 hours
EDA 7222, EDA 7233, EDA 7247, EDA 7130;
9 hours electives at 7000-level or 6000-level with advanced graduate standing; 3 hours technology course at 6000-level or above.

Measurement/Statistics/Research Design: 11-16 hours
EDF 6407, EDF 7408, and one of the following – EDF 7410, EDF 7437, EDF 7484, EDF 7493, or EDF 7477 and EDF 7478

Psychological and Social Foundations: 11-12 hours
Three courses at the 7000-level or 6000-level with advanced graduate standing, with at least one course required in each of the following areas – Philosophical/Social/Historical Foundations; Educational Psychology.

Refer to College Listing or Ed.D. Advisor for additional information. 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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
EDUCATIONAL LEADERSHIP - COLLEGE LEADERSHIP

Doctor of Education, Ed.D. in Educational Leadership
Concentration: College Leadership

DEGREE INFORMATION

Degree Offered: Doctor of Education - Ed.D.
Degree Program: Educational Leadership
Concentration: College Leadership
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: W. Robert Sullins
Other Contact: n/a
Phone: 813-974-3455
Fax: 813-974-3366
Email: highered@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/ache/he/he.html
Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Educational Leadership (College Leadership) The intent of the College Leadership program is to develop the competencies of educational practitioners in two and four year colleges and universities, and to obtain and synthesize knowledge for the solution of educational problems and practices. The Ed.D. program is designed for individuals who are primarily interested in the application of theory to improve practice in higher education.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.5 masters
3. Proof of educational or professional experience

4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

An undergraduate grade point average of 3.0 minimum on the upper division portion of the baccalaureate degree or a grade point average of 3.5 at the master’s level and a GRE score of 1,000 minimum (quantitative and verbal sections combined) and a Master’s degree from a regionally accredited institution of higher education. Three letters of recommendation, a vita or a resume, and a personal statement describing the applicant's professional goals and reasons for applying to the program are required.

Program of Study: 64-66 credit hrs
Specialization Courses 12-13 credit hrs
Higher Education Core Courses 9 credit hours (includes EDH 6947- Internship)
Curriculum and Instruction: 3 hours
Statistics/Measurement/Research Design: 12 hours
**Psychological and Social Foundations:** 7-8 semester hours. At least one 7000 level course is required in each of the two areas, Psychological and Social Foundations.

**Dissertation (EDH 7980):** 24 hours minimum
Refer to College listing for additional information.

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.

**COURSES**
# EDUCATIONAL PROGRAM DEVELOPMENT

## Doctor of Education (Ed.D.) in Educational Program Development

### DEGREE INFORMATION

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<tr>
<td>Also see:</td>
<td>See individual concentration areas for information.</td>
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### CONTACT INFORMATION

Refer to individual concentrations for contact information.

**Web Address:** [http://www.coedu.usf.edu/main](http://www.coedu.usf.edu/main)

**Mailing Address:**
University of South Florida  
College of Education  
4202 E. Fowler Avenue EDU162  
Tampa FL 33620

### PROGRAM INFORMATION

Refer to individual areas of concentration for information.

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

### ADMISSION INFORMATION

Refer to each area of concentration for program admission requirements or contact department.

### DEGREE PROGRAM REQUIREMENTS

Refer to areas of concentration for individual requirements.

### COURSES

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
ELEMENTARY EDUCATION

Master of Arts (M.A.) in Elementary Education

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Elementary Education
Concentration: n/a
Program Status: Active
Program Level: Masters
Also see: M.A.T. in Elementary Education

CONTACT INFORMATION

Program Coordinator: Kathryn Laframboise
Other Contact: Christine Miranda
Phone: 813-974-3460
Fax: 813-974-0938
Email: Laframboise@tempest.coedu.usf.edu
        Miranda@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/

Mailing Address:
University of South Florida
College of Education
Childhood/Language Arts/Reading Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Offered under Plan III - A program of study designed for those with a bachelor’s degree, but without appropriate initial certification in the specialization area who desire to increase their competence in a subject concentration or to receive professional preparation in one of the service areas. Plan III is a non-certification option.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE required for applicants with an upper-division GPA below 3.0
2. Minimum GPA of 2.5
3. Proof of educational or professional experience

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS
Each area of concentration requires a minimum of 33 hours. Please contact the program coordinator for specific program requirements.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
ELEMENTARY EDUCATION

Master of Arts (M.A.) in Elementary Education
Concentration: Elementary Curriculum

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Elementary Education
Concentration: Elementary Curriculum
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Kathryn Laframboise
Other Contact: Christine Miranda
Phone: 813-974-3460
Fax: 813-974-0938
Email: Laframbo@tempest.coedu.usf.edu
Miranda@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/

Mailing Address:
University of South Florida
College of Education
Childhood Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
A program of study designed for those with a bachelor’s degree and certification in the discipline who desire to increase their competence in elementary education. This program is not designed for those seeking initial certification.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE required if upper division GPA is less than 3.0
2. Minimum GPA of 2.5
3. Proof of educational or professional experience
4. Proof of initial certification

DEGREE PROGRAM REQUIREMENTS

A minimum of 33 hours including 6 hours of process core, 6 hours of program core, and 21 hours of emphasis area courses. Please contact program coordinator for more information.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
ELEMENTARY EDUCATION

Master of Arts (M.A.) in Elementary Education
Concentration: Language Arts

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Elementary Education
Concentration: Language Arts
Program Status: Inactive
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Kathryn Laframboise
Other Contact: Christine Miranda
Phone: 813-974-3460
Fax: 813-974-0938
Email: Laframboise@tempest.coedu.usf.edu
        Miranda@tempest.coedu.usf.edu
Web Address: www.coedu.usf.edu/main/

Mailing Address:
University of South Florida
College of Education
Childhood Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

Inactive program. Currently, no students are being admitted to this program.
ELEMENTARY EDUCATION

Master of Arts in Teaching (M.A.T.) in Elementary Education/ESOL

DEGREE INFORMATION

Degree Offered: Master of Arts in Teaching - M.A.T.
Degree Program: Elementary Education/ESOL
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Roger Brindley
Other Contact: Christine Miranda
Phone: 813-974-3460
Fax: 813-974-0938
Email: Brindley@tempes.coedu.usf.edu
Miranda@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/
Mailing Address:
University of South Florida
College of Education
Childhood Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
This program is designed for students who have a non-elementary bachelor’s degree and who wish to become elementary teachers for grades K-6. Students earn an ESOL endorsement at the same time as a Master’s degree in Elementary Education.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE required if upper-division GPA is less than 3.0
2. Minimum GPA of 2.5
3. CLAST/GKT/Praxis 1

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

A minimum of 53 hours of coursework (including internships). Contact program for specific information, and www.coedu.usf.edu/sas for internship and State of Florida testing requirements. Program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

Plan III
This program track is available for students who do not desire teacher certification (See College listing or contact program for more information.)

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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
ELEMENTARY EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Elementary Education

DEGREE INFORMATION
Degree Offered: Master of Education - M.Ed.
Degree Program: Curriculum and Instruction
Concentration: Elementary Education
Program Status: Inactive
Program Level: Masters

CONTACT INFORMATION
Program Coordinator: Kathryn Laframboise
Other Contact: Christine Miranda
Phone: 813-974-3460
Fax: 813-974-0938
Email: Laframboise@tempest.coedu.usf.edu
      Miranda@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/

Mailing Address:
University of South Florida
College of Education
Childhood Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

Inactive. Currently, no students are being admitted to this program
# ELEMENTARY EDUCATION

**Education Specialist (Ed.S.) in Curriculum and Instruction**  
**Concentration:** Elementary Education

## DEGREE INFORMATION

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## CONTACT INFORMATION

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<th>Susan Homan</th>
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<tr>
<td>Other Contact:</td>
<td>Christine Miranda</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-3460</td>
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<tr>
<td>Fax:</td>
<td>813-974-0938</td>
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<tr>
<td>Email:</td>
<td><a href="mailto:Homan@tempest.coedu.usf.edu">Homan@tempest.coedu.usf.edu</a></td>
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<td><a href="mailto:Miranda@tempest.coedu.usf.edu">Miranda@tempest.coedu.usf.edu</a></td>
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**Mailing Address:**  
University of South Florida  
College of Education  
Childhood Education  
4202 E. Fowler Avenue EDU162  
Tampa FL 33620

## PROGRAM INFORMATION

**Program Description**  
Prepares in-school leaders with expertise in instruction and program development in a variety of educational settings.

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

## ADMISSION INFORMATION

**Program Admission Requirements**  
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency  
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required  
2. Minimum GPA of 3.0 / 3.5 M  
3. Proof of educational or professional experience  
4. Proof of initial certification  
5. Letters of recommendation  
6. Interview  
7. Concept Paper or goal statement

## DEGREE PROGRAM REQUIREMENTS

The program requires a minimum of 36 hours beyond the Master’s degree, including coursework, written comprehensive, and a project. The Ed.S. program is separate from the Ph.D. and is planned as a terminal degree. Ed.S. course work is not necessarily applicable to the Ph.D. degree. Each student’s program is individually planned in consultation with a faculty program committee.

## COURSES

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
# ELEMENTARY EDUCATION

**Doctor of Philosophy (Ph.D.) in Curriculum and Instruction**  
**Concentration:** Elementary Education

## DEGREE INFORMATION

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## CONTACT INFORMATION

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<td>Christine Miranda</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-3460</td>
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<tr>
<td>Fax:</td>
<td>813-974-0938</td>
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<tr>
<td>Email:</td>
<td><a href="mailto:Homan@tempest.coedu.usf.edu">Homan@tempest.coedu.usf.edu</a> or</td>
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<tr>
<td></td>
<td><a href="mailto:Miranda@tempest.coedu.usf.edu">Miranda@tempest.coedu.usf.edu</a></td>
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</tbody>
</table>

**Mailing Address:**  
University of South Florida  
College of Education  
Childhood Education  
4202 E. Fowler Avenue EDU162  
Tampa FL 33620

**Inactive.** Currently, no students are being admitted to this program.
# ELEMENTARY EDUCATION

**Doctor of Education (Ed.D.) in Educational Program Development**

**Concentration: Elementary Education**

## DEGREE INFORMATION

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**Inactive.** Currently, no students are being admitted to this program.
ENGLISH EDUCATION

Master of Arts (M.A.) in English Education

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: English Education
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Pat Daniel
Other Contact: n/a
Phone: 813-974-3533
Fax: 813-974-3837
Email: pdaniel@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
A program of study designed for those with a bachelor’s degree in the field and appropriate initial certification who desire to increase their competence in a subject concentration.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools. National Council of Teachers of English (NCTE) for the MA Plan II.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. CLAST/GKT (Plan II)
3. Proof of educational or professional experience
4. Proof of initial certification (MA Pl I)

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Plan I - Program of Study 33 hours min
Process Core: 3-11 hours min
Current Trends in Teaching Specialization: 3 hours
Professional English Education Courses – 3 hours
Concentration: 18 hours minimum.
Content course selections are based on the prior background of the student and the current certification requirements; please see an advisor.

Electives (may be taken from the following areas: English, English Education, or Process Core)
Comprehensive Examination: Required in both English content and English Education.

Plan II and Plan III programs are also available for those who do not hold teaching certification but have a baccalaureate degree in English. For information on Plan II and III, please consult the program coordinator.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
ENGLISH EDUCATION

Master of Arts in Teaching (M.A.T.) in English Education

DEGREE INFORMATION

Degree Offered: Master of Arts in Teaching - M.A.T.
Degree Program: English Education
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Pat Daniel
Other Contact:
Phone: 813-974-3533
Fax: 813-974-3837
Email: pdaniel@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

A program of study designed to prepare students for initial certification in English education.

Program Description
Students may earn an ESOL endorsement with the degree in English Education. The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) ESOL 1, 2, and 3, 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.

Prepares educators for teaching English language arts in a grade 6-12 environment.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. CLAST/GKT

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

For Master of Arts in Teaching Degree (M.A.T)
Program of Study 41 hours min
English Education methods 14 hours
Current Trends in Teaching Specialization 3 hours
ESOL 9 hours
Core process 9 hours
Internship 6 hours
Comprehensive Examination in English Education.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
ENGLISH EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: English Education

DEGREE INFORMATION
Degree Offered: Master of Education - M.Ed.
Degree Program: Curriculum and Instruction
Concentration: English Education
Program Status: Active
Program Level: Masters

CONTACT INFORMATION
Program Coordinator: Pat Daniel
Other Contact: n/a
Phone: 813-974-3533
Fax: 813-974-3837
Email: pdaniel@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu
Mailing Address:
University of South Florida
College of Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION
Program Description
The M.Ed. degree in Curriculum and Instruction is a flexible program designed for fully certified teachers of English who wish to improve their skills in teaching middle school and/or senior high school English language arts. The program is developed in consultation with an advisor and tailored to the needs of each individual.

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

ADMISSION INFORMATION
Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. CLAST/GKT (Plan II)
3. Proof of educational or professional experience
4. Proof of initial certification (MA, Plan 1)

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS
Program of Study 33 hours min
Process Core 12 hours
EDF 6432 EDF 6481 EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606
Curriculum and Instruction (EDG 6627) 3 hours
Specialization 18 hours in the area of emphasis, to include courses in content and/or the teaching of this content

Comprehensive Examination - The comprehensive examination will consist of a written examination in the major area.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
### ENGLISH EDUCATION

**Doctor of Philosophy (Ph.D.) in Curriculum and Instruction**  
**Concentration:** English Education

### DEGREE INFORMATION

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<td><strong>Degree Program:</strong></td>
<td>Curriculum and Instruction</td>
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<tr>
<td><strong>Concentration:</strong></td>
<td>English Education</td>
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<td><strong>Program Level:</strong></td>
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### CONTACT INFORMATION

<table>
<thead>
<tr>
<th><strong>Program Coordinator:</strong></th>
<th>Jane Applegate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Other Contact:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Phone:</strong></td>
<td>813-974-3533</td>
</tr>
<tr>
<td><strong>Fax:</strong></td>
<td>813-974-3837</td>
</tr>
<tr>
<td><strong>Email:</strong></td>
<td><a href="mailto:applegate@tempest.coedu.usf.edu">applegate@tempest.coedu.usf.edu</a></td>
</tr>
<tr>
<td><strong>Web Address:</strong></td>
<td><a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
</tr>
</tbody>
</table>

**Mailing Address:**  
University of South Florida  
College of Education  
4202 E. Fowler Avenue EDU162  
Tampa FL 33620

### PROGRAM INFORMATION

**Program Description**  
This program is highly individualized. Candidates’ programs are planned (with approval by a faculty committee) based upon previous experience and future goals.

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

### ADMISSION INFORMATION

**Program Admission Requirements**  
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required
2. Minimum GPA of B-3 / M-3.5
3. Proof of educational or professional experience
4. Letters of recommendation

**Program Admission Deadlines**  
- Fall deadline: June 1
- Spring deadline: October 15
- Summer deadline: March 1

### DEGREE PROGRAM REQUIREMENTS

This program requires a minimum of 75 hours beyond the Master’s degree.

<table>
<thead>
<tr>
<th>Program of Study</th>
<th>75 - 81 hours min</th>
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<tr>
<td>Concentration</td>
<td>18 hours minimum</td>
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<td>Curriculum and Instruction</td>
<td>3 hours</td>
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<td>Cognate Area</td>
<td>12 hours</td>
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</table>

Supporting courses outside specialization area
- Statistics/Measurement/Research Design: 11-16 hours
- Foundations (Psychological and Social): 7-8 hours
- Dissertation: 24 hours min

Dissertation, Residency, and Doctoral Qualifying Examination  
Refer to College for information.

**COURSES**  
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
FOREIGN LANGUAGE EDUCATION

Master of Arts (M.A.) in Foreign Language Education

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Foreign Language Education
Concentration: n/a
Program Status: Active
Program Level: Masters
Also see: Foreign Language Ed., French, Foreign Language Ed., German, Foreign Language Ed., Spanish

CONTACT INFORMATION

Program Coordinator: Tony Erben
Phone: 813-974-3533
Fax: 813-974-3837
Email: terben@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/terben
Mailing Address: University of South Florida, College of Education, Secondary Education, 4202 E. Fowler Avenue EDU162, Tampa FL 33620

PROGRAM INFORMATION

Program Description
Prepares educators for teaching foreign language in a K-12 environment.

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

Major Research Areas: German, Spanish, French, Latin, Foreign Language Education.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. Proof of educational or professional experience
3. Proof of initial certification (M.Ed.)
4. Coursework is allowed in lieu of GPA or GRE requirement (Plan I)

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

For M.A. - Plan I
Program of Study 36 hours min
Process Core 3-11 hours
Current Trends in Teaching Specialization 3 hours
Professional Foreign Language Education 3 hours
Concentration 18 hours min
Comprehensive Examination: Required in both Foreign Language and Foreign Language Education.

Plan II for students seeking initial certification. A Plan III, non-certification option is also available for those who do not desire teacher certification. For information on Plan II and III, refer to the College of Education listing, www.coedu.usf.edu.

COURSES
FOREIGN LANGUAGE EDUCATION

Master of Arts (M.A.) in Foreign Language Education
Concentration: French

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A
Degree Program: Foreign Language Education
Concentration: French
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Tony Erben
Other Contact: 
Phone: 813-974-3533
Fax: 813-974-3837
Email: terben@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/terben

Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Prepares educators for teaching French in a K-12 environment.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. Proof of initial certification (Plan I)

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS


COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
FOREIGN LANGUAGE EDUCATION

Master of Arts (M.A.) in Foreign Language Education
Concentration: German

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Foreign Language Education
Concentration: German
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Tony Erben
Other Contact: Phone: 813-974-3533
Fax: 813-974-3837
Email: terben@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/terben
Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Prepares educators for teaching German in a K-12 environment.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. Proof of initial certification (Plan I)

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS


COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
FOREIGN LANGUAGE EDUCATION

Master of Arts (M.A.) in Foreign Language Education
Concentration: Spanish

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Foreign Language Education
Concentration: Spanish
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Tony Erben
Other Contact: Phone: 813-974-3533
Fax: 813-974-3837
Email: terben@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/terben

Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Prepares educators for teaching Spanish in a K-12 environment.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. Proof of initial certification (Plan I)

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS


COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
FOREIGN LANGUAGE EDUCATION

Master of Arts in Teaching (M.A.T.) in Foreign Language Education

DEGREE INFORMATION

Degree Offered: Master of Arts in Teaching - M.A.T.
Degree Program: Foreign Language Education
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Tony Erben
Other Contact: Marcela van Olphen
Phone: 813-974-1652
Fax: 813-974-3837
Email: terben@tempest.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
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 foreign language at the middle or high school level.

Three reasons why the M.A.T. may be your best route to teacher certification:

1) Students can earn ESOL endorsement at the same time as the Master’s degree. (ESOL competencies are infused into the M.A.T. program so that Foreign Language teachers receive ESOL endorsement at the time of graduation.

2) The M.A.T. offers an accelerated Master’s degree.

3) The M.A.T. degree satisfies not only state certification requirements, but also rewards employees with higher pay as well as certification that will be accepted in 38 other states (since the degree is earned from an NCATE-accredited, state-approved College of Education.

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

ADMISSION INFORMATION

Admission Program Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. CLAST/GKT
3. Letters of recommendation
4. Interview
5. Concept Paper or goal statement

Admission Program Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

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. The program requires 42 semester hours, minimum.

Professional Foreign Language Education Courses - 15 hours

Current Trends in Teaching Specialization – 3 hrs.
ESOL – 9 hrs.

**Foreign Language Professional Core** – 9 hrs.

**Internship** - 6 hours  
(The internship is planned observation and teaching, supervised by a member of the University faculty and a school staff member.)

**Comprehensive Examination** required in Foreign Language Education.

Please refer to [www.coedu.usf.edu/sas](http://www.coedu.usf.edu/sas) for specific internship entrance and State of Florida testing requirements.

**COURSES**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
FOREIGN LANGUAGE EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Foreign Language Education

DEGREE INFORMATION

Degree Offered: Master of Education - M.Ed.
Degree Program: Curriculum and Instruction
Concentration: Foreign Language Education (with emphases in French, German or Spanish)
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Tony Erben
Other Contact: Marcela van Olphen
Phone: 813-974-3533
Fax: 813-974-3837
Email: terben@tempest.coedu.usf.edu
Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
This program has a greater emphasis on the field of education and allows students to select courses in their specialization either inside the College of Education or from other colleges. Students who have completed a bachelor’s degree in foreign language education or another education field are eligible to enroll in this M.Ed. degree program. Usually, students in this program are State of Florida certified teachers.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. Proof of initial certification (Plan I)

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

The M.Ed. degree requires a minimum of 33 semester hours with 60 percent or more of the courses at the 6000 level.

Professional Education Courses (12 hours) in educational psychology, foundations, research methods, etc.)

Specialization content (18 hours) are taken at the graduate level in the area of emphasis, to include courses in content and/or the teaching of this content.

Curriculum and Instruction (3 hours) – EDG 6627

Comprehensive Examination
A comprehensive examination must be taken in the College of Education at the completion of the program.

Check with the program coordinator for specific requirements.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
## HIGHER EDUCATION, ADMINISTRATION

**Education Specialist (Ed.S.) in Curriculum and Instruction**
Concentration: **Higher Education, Administration**

<table>
<thead>
<tr>
<th>DEGREE INFORMATION</th>
<th>CONTACT INFORMATION</th>
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<tr>
<td><strong>Degree Offered:</strong> Education Specialist - Ed.S.</td>
<td><strong>Program Coordinator:</strong> W. Robert Sullins</td>
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<td><strong>Degree Program:</strong> Curriculum and Instruction</td>
<td><strong>Other Contact:</strong> n/a</td>
</tr>
<tr>
<td><strong>Concentration:</strong> Higher Education, Administration</td>
<td><strong>Phone:</strong> 813-974-3455</td>
</tr>
<tr>
<td><strong>Program Status:</strong> Inactive</td>
<td><strong>Fax:</strong> 813-974-3366</td>
</tr>
<tr>
<td><strong>Program Level:</strong> Specialist</td>
<td><strong>Email:</strong> <a href="mailto:highered@tempest.coedu.usf.edu">highered@tempest.coedu.usf.edu</a></td>
</tr>
<tr>
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<td><strong>Web Address:</strong> <a href="http://www.coedu.usf.edu/main/departments/ache/he/he.html">http://www.coedu.usf.edu/main/departments/ache/he/he.html</a></td>
</tr>
</tbody>
</table>

**Inactive.** Currently, students are not being admitted to this program.
HIGHER EDUCATION, COMMUNITY COLLEGE TEACHING

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Higher Education, Community College Teaching

DEGREE INFORMATION
Degree Offered: Education Specialist - Ed.S.
Degree Program: Curriculum and Instruction
Concentration: Higher Education, Community College Teaching
Program Status: Inactive
Program Level: Specialist

CONTACT INFORMATION
Program Coordinator: W. Robert Sullins
Other Contact: n/a
Phone: 813-974-3455
Fax: 813-974-3366
Email: highered@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/ache/he/he.html
Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

Inactive. Currently, students are not being admitted to this program.
HIGHER EDUCATION, ADMINISTRATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Higher Education, Administration

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Curriculum and Instruction
Concentration: Higher Education, Administration
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: W. Robert Sullins
Other Contact: n/a
Phone: 813-974-3455
Fax: 813-974-3366
Email: highered@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/ache/he/he.htm
Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Higher Education Administration program is a research degree that prepares individuals interested in teaching, research, and policy positions in both community colleges and universities.

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

ADMISSION INFORMATION

Admission Program Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. a GRE score of 1000 minimum (quantitative and verbal)
2. a Master’s degree from a regionally accredited institution of higher education
3. An undergraduate grade point average of 3.0 minimum on the upper division portion of the baccalaureate degree or a grade point average of 3.5 at the Master’s level

In addition, students need to submit the following information directly to the Department of Adult Career and Higher Education:
1. a vita or a resume
2. three letters of recommendation from references familiar with the student’s academic and/or professional abilities a personal statement describing the student’s professional goals and why he or she is applying to the program

Admission Program Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Students in the Ph.D. program in the College of Education must complete a residency requirement during which time the student must enroll for at least nine semester hours during any two semesters within a 12-month time frame. During the semesters of residency, the student should not be employed more than 50% of the time.

Program of Study: 82 credit hours minimum
Concentration/Specialization Courses 18 credit hours

Higher Education Core Courses 9 credit hours

Statistics/Measurement/Research Design: 12 credit hours

Psychological and Social Foundations 6-8 credit hours

Cognate Area: 12 credit hours

Dissertation (EDH 7980): 24 credit hours
Refer to College listing for additional information.

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

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
http://www.coedu.usf.edu/main/departments/ache/courses.html
HIGHER EDUCATION, COMMUNITY COLLEGE TEACHING

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Higher Education, Community College Teaching

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Curriculum and Instruction
Concentration: Higher Education, Community College Teaching
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: W. Robert Sullins
Phone: 813-974-3455
Fax: 813-974-3366
Email: highered@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/ache/he/he.html
Mailing Address:
University of South Florida
College of Education
Adult, Career and Higher Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Higher Education Administration program is a research degree that prepares individuals interested in teaching, research, and policy positions in both community colleges and universities.

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

ADMISSION INFORMATION

Admission Program Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. a GRE score of 1000 minimum (quantitative and verbal)
2. a Master’s degree from a regionally accredited institution of higher education
3. An undergraduate grade point average of 3.0 minimum on the upper division portion of the baccalaureate degree or a grade point average of 3.5 at the Master’s level

In addition, students need to submit the following information directly to the Department of Adult Career and Higher Education:
1. a vita or a resume
2. three letters of recommendation from references familiar with the student’s academic and/or professional abilities a personal statement describing the student’s professional goals and why he or she is applying to the program

Admission Program Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Students in the Ph.D. program in the College of Education must complete a residency requirement during which time the student must enroll for at least nine semester hours during any two semesters within a 12-month time frame. During the semesters of residency, the student should not be employed more than 50% of the time.

Program of Study: 82 credit hours minimum
Concentration/Specialization Courses 18 credit hours
Higher Education Core Courses 9 credit hours
Statistics/Measurement/Research Design: 12 credit hours
Psychological and Social Foundations: 6-8 credit hours
Cognate Area: 12 credit hours
Dissertation (EDH 7980): 24 credit hours
Refer to College listing for additional information.

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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
http://www.coedu.usf.edu/main/departments/ache/course.s.html
INDUSTRIAL ARTS - TECHNOLOGY EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Industrial Arts-Technology Education

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<td>University of South Florida</td>
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<td>4202 E. Fowler Avenue EDU162</td>
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<td></td>
<td>Tampa FL 33620</td>
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</table>

Inactive. Currently, students are not being admitted to this program.
INSTRUCTIONAL TECHNOLOGY

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Instructional Technology

DEGREE INFORMATION

Degree Offered: Master of Education - M.Ed.
Degree Program: Curriculum and Instruction
Concentration: Instructional Technology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Frank Breit
Other Contact:
Phone: 813-974-1632
Fax: 813-974-3837
Email: Breit@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/it/curriculum/M.Ed/section1.html
Mailing Address: University of South Florida
College of Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The M.Ed. in Instructional Technology is intended for students interested in working as instructional designers/developers in industry or academic environments.

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

ADMISSION INFORMATION

Admission Program Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. OR, Successful completion of Grad Certificate in Instructional Technology with GPA of 3.5 or better

ADMISSION PROGRAM DEADLINES
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS
The M.Ed. in Instructional Technology is 37-38 semester hours in length and consists of 12 courses; 7 courses in the major area of Instructional Technology and 5 courses in Educational Foundations.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm and http://www.coedu.usf.edu/it/curriculum/M_Ed/section1.html#courses_description
INSTRUCTIONAL TECHNOLOGY

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Instructional Technology

DEGREE INFORMATION

Degree Offered: Education Specialist (Ed.S.)
Degree Program: Curriculum and Instruction
Concentration: Instructional Technology
Program Status: Active
Program Level: Specialist

CONTACT INFORMATION

Program Coordinator: Ann Barron
Other Contact: n/a
Phone: 813-974-1631
Fax: 813-974-3837
Email: Barron@usf.edu
Web Address: http://www.coedu.usf.edu/IT/

PROGRAM INFORMATION

This program is 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.

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

ADMISSION INFORMATION

Program Admission Requirements
Program may have additional admission requirements. Check with the program coordinator before applying.

Program Admission Deadlines
Contact Program for information.

DEGREE PROGRAM REQUIREMENTS

The Ed.S. in Curriculum and Instruction with a concentration in Instructional Technology is 36 semester hours in length. Entering students must hold a Master’s degree from a regionally accredited institution of higher education. See http://www.coedu.usf.edu/IT for more details.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
INSTRUCTIONAL TECHNOLOGY

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Instructional Technology

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Curriculum and Instruction
Concentration: Instructional Technology
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: James. A. White
Other Contact: n/a
Phone: 813-974-1629
Fax: 813-974-3837
Email: jwhite@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/it/
Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Instructional Technology is the theory and practice of design, development, utilization, management and evaluation processes and resources for learning.” (Seels&Richey, 1994, p.9). The USF Ph.D. in Instructional Technology is designed to prepare scholars for leadership roles in colleges, universities, corporations, the military, and other venues where research, development, and implementation of technology-based instructional methods and materials take place.


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

Major Research Areas: See http://www.coedu.usf.edu/it/

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores
Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0 Bachelor’s / 3.5 Masters
3. Letters of recommendation
4. Interview
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS
See http://www.coedu.usf.edu/it/PhD/

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
# INTERDISCIPLINARY EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction  
Concentration: Interdisciplinary Education

### DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Master of Education (M.Ed.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree Program:</td>
<td>Curriculum and Instruction</td>
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<td>Concentration:</td>
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<td>Program Level:</td>
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### CONTACT INFORMATION

| Program Coordinator: | n/a                           |
| Other Contact:       | n/a                           |
| Phone:               | n/a                           |
| Fax:                 | n/a                           |
| Email:               | n/a                           |
| Web Address:         | [http://www.coedu.usf.edu](http://www.coedu.usf.edu) |

**Mailing Address:**  
University of South Florida  
College of Education  
Department of Psychological and Social Foundations  
4202 E. Fowler Avenue EDU162  
Tampa FL 33620

*Inactive.* Currently, no students are being admitted to this program.
INTERDISCIPLINARY EDUCATION

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Interdisciplinary Education

DEGREE INFORMATION

Degree Offered: Education Specialist (Ed.S.)
Degree Program: Curriculum and Instruction
Concentration: Interdisciplinary Education
Program Status: Active
Program Level: Specialist

CONTACT INFORMATION

Program Coordinator: Erwin Johanningermeier
Other Contact: 813-974-3246
Phone: 813-974-9495
Fax: 813-974-5814
Email: Johannin@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
4202 E. Fowler Avenue EDU162
Department of Psychological and Social Foundations
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The purpose of the Interdisciplinary track is to provide opportunities for those students who have educational backgrounds and interests that span a variety of disciplines that may include work outside as well as inside the College of Education. Students who have the ability and desire to integrate study and research among several departments/programs are encouraged to apply to the Interdisciplinary track.

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

Major Research Areas: consult program coordinator

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0 Bachelor’s / 3.5 Masters
3. Official Transcripts
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS
Consult with the program coordinator prior to applying.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
INTERDISCIPLINARY EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Interdisciplinary Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Curriculum and Instruction
Concentration: Interdisciplinary Education
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: Erwin Johanningmeier
Other Contact: 813-974-3246
Phone: 813-974-9495
Fax: 813-974-5814
Email: Johannin@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
4202 E. Fowler Avenue EDU162
Department of Psychological and Social Foundations
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The purpose of the Interdisciplinary track in the Ph.D. degree is to provide opportunities for those students who have educational backgrounds and interests that span a variety of disciplines that may include work outside as well as inside the College of Education. Students who have the ability and desire to integrate study and research among several departments/programs are encouraged to apply to the Interdisciplinary track.

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

Major Research Areas: consult program coordinator

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0 Bachelor’s / 3.5 Masters
3. Official Transcripts
4. Letters of recommendation
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS
Consult with the program coordinator prior to applying.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
# INTERDISCIPLINARY EDUCATION, SECOND LANGUAGE ACQUISITION

**Doctor of Philosophy (Ph.D.) in Curriculum and Instruction**  
Concentration: **Interdisciplinary Education, Second Language Acquisition**

## DEGREE INFORMATION

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Doctor of Philosophy (Ph.D.)</th>
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<tbody>
<tr>
<td>Degree Program:</td>
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<tr>
<td>Concentration:</td>
<td>Interdisciplinary Education, Second Language Acquisition</td>
</tr>
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<td>Program Status:</td>
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<td>Program Level:</td>
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<tr>
<td>Also see:</td>
<td>Second Language Acquisition/ Instructional Technology (SLAIT) listing</td>
</tr>
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</table>

## CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Program Coordinator:</th>
<th>n/a</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Contact:</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone:</td>
<td>n/a</td>
</tr>
<tr>
<td>Fax:</td>
<td>n/a</td>
</tr>
<tr>
<td>Email:</td>
<td>n/a</td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
</tr>
</tbody>
</table>

**Inactive.** This degree program is available under Second Language Acquisition (Ph.D.) It is no longer available as a part of the Interdisciplinary track.
MATHEMATICS EDUCATION

Master of Arts (M.A.) in Mathematics Education

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Mathematics Education
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Richard Austin
Other Contact: Denisse Thompson
Phone: 813-974-2852
Fax: 813-974-3837
Email: Austin@tempest.coedu.usf.edu
                     Thompson@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/mathed/default.htm
Mailing Address: University of South Florida
                 College of Education
                 Secondary Education
                 4202 E. Fowler Avenue EDU162
                 Tampa FL 33620

PROGRAM INFORMATION

Program Description
This degree is designed primarily for secondary school teachers desiring to improve their skills in the teaching of mathematics to secondary students.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Proof of initial certification

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Plan I Option
Process Core: (minimum of 9 hours)
EDF 6432
EDF 6481
EDF 6211 or EDF 6215

Current Trends:
MAE 6136 Current Trends in Secondary School Mathematics

Elective: 3 hours of mathematics education

Specialization: 18 hours minimum
Graduate level mathematics courses to be approved by the student’s advisor.

Comprehensive Examination
The comprehensive examination will consist of a written and/or oral examination in the concentration area.

Plan II Option is available for individuals seeking initial teacher certification. In addition to the requirements for Plan I, individuals pursuing Plan II will need the following courses

ESE 5344 Classroom Management
MAE 6166 Communication Skills in Mathematics
MAE 6356 Teaching Pre-Secondary School Mathematics
MAE 4330 Teaching High School Mathematics

A semester-long internship in a middle or high school setting is also required.
A Plan III option is available for individuals who are neither certified nor desire certification.

The Master of Arts in Teaching (M.A.T.) in Mathematics Education Degree program is currently available at the middle grades (5-9) level and under development for secondary grades (6-12). Please check the Mathematics Education website for an update as well as other sections of this catalog.

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.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
MATHEMATICS EDUCATION

Master of Arts in Teaching (M.A.T.) in Mathematics Education
Concentration: Middle Grades Mathematics (5-9)

DEGREE INFORMATION

Degree Offered: Master of Arts in Teaching - M.A.T.
Degree Program: Mathematics Education
Concentration: Middle Grades Mathematics (5-9)
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Richard Austin
Other Contact: Denisse Thompson
Phone: 813-974-2852
Fax: 813-974-3837
Email: Austin@tempest.coedu.usf.edu
       Thompson@tempest.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

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 Commission on Colleges of the Southern Association of College and Schools.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required
2. Minimum GPA of 3.0 in upper division courses
3. CLAST/GKT

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Professional Core:
EDF 4430 Measurement for Teachers
ESE 5344 Classroom Management for a Diverse School and Society
ESE 5342 Teaching the Adolescent Learner
FLE 5365 ESOL Education in Content Areas

Mathematics:
MAE 6137 Probability and Statistics for Middle Grades Teachers
MAE 6332 Advanced Mathematics Topics for Middle Grades Teachers
MAE 6333 Algebra for Middle Grades Teachers
MAE 6334 Geometry and Measurement for Middle Grades Teachers
MAE 6335 Number Theory for Middle Grades Teachers

Mathematics Education:
MAE 6134 Current Trends for Middle Grades Mathematics
MAE 6166 Communication Skills in Mathematics
MAE 6356 Teaching of Pre-Secondary School Mathematics
MAE 6945 Practicum in Mathematics Education
MAE 6947 Graduate Internship: Mathematics Education (6 hours)
MAE 6899 Internship Seminar in Mathematics Education (1 hour)
The internship requires a semester of placement in a middle school mathematics classroom.

A comprehensive exam/final project is also 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.

COURSES
See http://www.ugs.usf.sab/sabs.cfm

OTHER INFORMATION
For further information about the program, check the website
http://www.coedu.usf.edu/MathEd/default.htm
MATHEMATICS EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Mathematics Education

DEGREE INFORMATION

Degree Offered: Master of Education (M.Ed.)
Degree Program: Curriculum and Instruction
Concentration: Mathematics Education
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Richard Austin
Other Contact: Denisse Thompson
Phone: 813-974-2852
Fax: 813-974-3837
Email: Austin@tempest.coedu.usf.edu
Thompson@tempest.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student’s advisor. At least 60 percent of the program hours must be at the 6000 level.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Proof of initial certification

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Process Core (12 hours minimum):
EDF 6432
EDF 6481
EDF 6211 or EDF 6215
EDF 6517 or EDF 6544 or EDF 6606

Curriculum and Instruction: EDG 6627

Concentration/Specialization: At least 18 hours to include courses in content and/or the teaching of this content to be planned with the student's advisor. MAE 6136, Curriculum Trends in Secondary Education, must be included within the 18 hours of specialization.

A comprehensive examination is required at the end of the program.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
MATHEMATICS EDUCATION

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Mathematics Education

DEGREE INFORMATION

Degree Offered: Education Specialist (Ed.S.)
Degree Program: Curriculum and Instruction
Concentration: Mathematics Education
Program Status: Active
Program Level: Specialist

CONTACT INFORMATION

Program Coordinator: Gladis Kersaint
Other Contact: Denisse Thompson
Phone: 813-974-1644 or 813-974-2687
Fax: 813-974-3837
Email: Kersaint@tempest.coedu.usf.edu or Thompson@tempest.coedu.usf.edu
Web Address: www.coedu.usf.edu/MathEd/default.htm
Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Ed.S. Degree in Curriculum and Instruction prepares specialists for classroom instruction or leadership/supervisory roles.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0 Bachelors and 3.5 Masters
3. Proof of educational or professional experience

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

The Ed.S. program is highly individualized. Within the program structure, candidates’ programs are planned on the basis of previous educational and professional experience and future goals. The program of study must be approved by a faculty committee.

The program of study requires a minimum of 15 hours of specialization in mathematics education and/or mathematics., 12 hours in professional education, and a minimum of nine (9) hours towards a thesis/project.

A comprehensive exam is also required.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
MATHEMATICS EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Mathematics Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Curriculum and Instruction
Concentration: Mathematics Education
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: Gladis Kersaint
Phone: 813-974-1644
Fax: 813-974-3837
Email: Kersaint@tempest.coedu.usf.edu
Web Address: www.coedu.usf.edu/MathEd/default.htm
Mailing Address: University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

The doctoral program with emphasis in curriculum and instruction, mathematics education, is a research degree that prepares individuals interested in research, teacher education, and leadership roles. Specifically, the program aims to prepare individuals who are able to do the following: be leaders in mathematics education at the local, state, and national levels; conduct sound research on issues related to the teaching and learning of mathematics and to disseminate that research in appropriate forums; employ sound teaching contribute to standards-based mathematics education reform; support practicing K-12 professionals in their innovations in mathematics education; and support the preparation of future mathematics educators at all levels, but particularly at the K-12 levels.

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

Major Research Areas: Curriculum development and research, teaching and teacher development, assessment, technology.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency

2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0 Bachelor’s / 3.5 Master’s
3. Proof of educational or professional experience
4. Letters of recommendation

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Mathematics Education Concentration
MAE 7655 Research Issues in Technology
MAE 7146 Curriculum History and Research
MAE 7794 Preparing K-12 Math Teachers
MAE 7796 Research Issues
MAE 7138 Assessment Issues
MAE 7945 Practicum (must be taken twice)

Research Core
EDF 6407 Statistical Analysis for Research I
EDF 7408 Statistical Analysis for Research II
EDF 7477 Qualitative Research I
EDF 7478 Qualitative Research II
EDF 7410 Research Design

Education Core
ESE XXXX Teaching and Learning in the Content Area (being developed)
EEX 7743 Philosophies of Scholarly Inquiry
EDF 7146 Cognitive Issues in Instruction
Cognate (12 hours)
These courses are based on individual student interests, and should be taken at the 6000 level.

Doctoral Qualifying Exam (must be passed to be admitted to candidacy)

Residency Requirement (2 consecutive semesters of fulltime study)

Dissertation (Minimum 24 hours)

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
MEASUREMENT AND EVALUATION

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Measurement and Evaluation

DEGREE INFORMATION

Degree Offered: Master of Education - M.Ed.
Degree Program: Curriculum and Instruction
Concentration: Measurement and Evaluation
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Jeffrey D. Kromey
Other Contact: N/A
Phone: 813-974-3220
Fax: 813-974-4495
Email: Kromrey@tempest.coedu.usf.edu
Web Address: www.coedu.usf.edu
Mailing Address:
University of South Florida
College of Education
Educational Measurement and Research
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
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 program prepares personnel with specialized skills in test construction, data analysis, program evaluation, and research design.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores
Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Letters of recommendation
5. Interview
6. Concept Paper or goal statement

DEGREE PROGRAM REQUIREMENTS

Program of Study (42 hours)
Process Core (14 hours)
EDF 6432 (3)  EDF 6481 (3)
EDF 6215 (4)  EDF 6606 (4)
Concentration (9 hours)
EDG 6627 (3)  EDF 6492 (3)
EDF 6288 (3)
Specialization (19 hours)
EDF 6407 (4)  EDF 7408 (4)
EDF 7488 (2)  EME 6930 (3)
EDF 6446 (3)
EME Computer Elective (3)
Comprehensive Examination

EDUCATIONAL MEASUREMENT AND RESEARCH COURSES

EDF 6407 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH I (4)
Theory and application of statistical procedures to problems in education: (1) Descriptive statistics, (2) Probability-sampling distributions, (3) Inferential statistics-interval estimation, tests of significance (z, t,
F-one way ANOVA). Coordinated use of computer included.

EDF 6432 FOUNDATIONS OF MEASUREMENT (3)
Basic measurement concepts, role of measurement in education, construction of teacher-made objective tests and performance assessments, fundamental descriptive statistics for use in test interpretation, evaluation of standardized tests, and interpretation of standardized test score reports.

EDF 6446 DEVELOPMENT AND VALIDATION OF TESTS IN EDUCATION (3)
Design, construction, and validation of state-wide tests. Special emphasis on domain sampling, item response theory, item scaling, item fit, and constructing, maintaining, and updating item banks. (PR: EDF 6432, EDF 6407 or CI)

EDF 6481 FOUNDATIONS OF EDUCATIONAL RESEARCH (3)
Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies. (PR: EDF 6432 or CI)

EDF 6492 APPLIED EDUCATIONAL PROGRAM EVALUATION (3)
Interpretation, and evaluation of standardized tests; survey development and use; program evaluation; personnel evaluation; attitude assessment; and strategic planning.

EDF 7408 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH II (4)
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. (PR: EDF 6407 or equiv. or CI)

EDF 7488 PROBLEMS IN EDUCATIONAL DATA ANALYSIS (2)
Strategies and techniques for data processing and quantitative analysis using statistical software, including data screening, transformation, diagnostic indices, and interpretation. (PR: EDF 7408 or CI)

Courses Required from Other Departments

EDF 6215 LEARNING PRINCIPLES APPLIED TO INSTRUCTION (4)
Learning principles and their application to classroom instruction. (PR:CI)

EDF 6288 INSTRUCTIONAL DESIGN I (3)
Instructional design models/theories and their systematic application to instructional goals. (PR: EDF 6215 or CI)

EDF 6606 SOCIO-ECONOMIC FOUNDATIONS OF AMERICAN EDUCATION (4)
Socio-economic factors as they relate to the work of professional educators and the role of public education in American society.

EDG 6627 FOUNDATIONS OF CURRICULUM AND INSTRUCTION (3)
Introductory course in curriculum and instruction at the graduate level, basic to all specialized courses in the field. Emphasis on foundations, design, basic concepts, theory, and trends of curriculum from early childhood through secondary levels. Open to all graduate students. (PR: EDG 4620)

EME 6930 PROGRAMMING LANGUAGES FOR EDUCATION (3)
Development of concepts, strategies, and materials for using programming languages in educational settings. Separate sections will focus on different programming languages such as LOGO, BASIC, Hyperscripting, Pascal, Advanced Pascal. (PR: Computer literacy)

Courses
See http://www.ugs.usf.edu/sab/sabs.cfm

Other Information:
Program may have additional requirements. Please check with program before applying.
MEASUREMENT AND EVALUATION

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Measurement and Evaluation

DEGREE INFORMATION

Degree Offered: Education Specialist - Ed.S.
Degree Program: Curriculum and Instruction
Concentration: Measurement and Evaluation
Program Status: Active
Program Level: Specialist

CONTACT INFORMATION

Program Coordinator: Jeffrey D. Kromrey
Other Contact: N/A
Phone: 813-974-3220
Fax: 813-974-4495
Email: Kromrey@tempest.coedu.usf.edu
Web Address: www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Measurement and Research
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Ed. S. program prepares specialists for work in school districts, government agencies, commercial test development companies, and program research and evaluation enterprises.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.5 Master’s
3. CLAST/GKT
4. Proof of educational or professional experience
5. Proof of initial certification
6. Coursework is allowed in lieu of GPA or GRE requirement
7. Letters of recommendation
8. Interview
9. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

This program requires 36 hours beyond the Master's Degree. The program is individually planned with an advisor to include coursework in systematic planning, test development, program evaluation, research design, and statistical analysis. Nine (9) of the 36 hours are to be taken as thesis hours. A comprehensive examination and oral defense of the thesis/thesis project are required.

EDUCATIONAL MEASUREMENT & RESEARCH COURSES

EDF 6407 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH I (4)
Theory and application of statistical procedures to problems in education: (1) Descriptive statistics, (2) Probability-sampling distributions, (3) Inferential statistics-interval estimation, tests of significance (z, t, F-one way ANOVA). Coordinated use of computer included.

EDF 6432 FOUNDATIONS OF MEASUREMENT (3)
Basic measurement concepts, role of measurement in education, construction of teacher-made objective tests and performance assessments, fundamental descriptive statistics for use in test interpretation, evaluation of standardized tests, and interpretation of standardized test score reports.
EDF 6446 DEVELOPMENT AND VALIDATION OF TESTS IN EDUCATION (3)
Design, construction, and validation of state-wide tests. Special emphasis on domain sampling, item response theory, item scaling, item fit, and constructing, maintaining, and updating item banks. (PR: EDF 6432, EDF 6407 or CI)

EDF 6481 FOUNDATIONS OF EDUCATIONAL RESEARCH (3)
Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies. (PR: EDF 6432, or CI)

EDF 6492 APPLIED EDUCATIONAL PROGRAM EVALUATION (3)
Design, interpretation, and evaluation of standardized tests; survey development and use; program evaluation; personnel evaluation; attitude assessment; and strategic planning.

EDF 6971 THESIS: MASTERS/EDUCATIONAL SPECIALIST (2-19 Var.) Rpt. S/U

EDF 7408 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH II (4)
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. (PR: EDF 6407 or equiv. or CI)

EDF 7410 DESIGN OF SYSTEMATIC STUDIES IN EDUCATION (4)
Theory and application of major design models to systematic inquiry, from experimental to naturalistic models. Nature and role of sampling in systematic studies. (PR: EDF 6407, EDF 7408 or equiv. or CI)

EDF 7437 ADVANCED EDUCATIONAL MEASUREMENT I (3).
Logical, empirical, and statistical models of measurement processes. Examination of scaling issues with a focus on reliability and validity. Critique of available instruments in education and the social sciences. (PR: EDF 6432 or equiv.; EDF 6407 or equiv.)

EDF 7438 ADVANCED EDUCATIONAL MEASUREMENT II (4).
Scaling techniques in educational and psychological measurement. Item analytic theories and practices. Application of psychometric theory to the construction and score validation of measurement instruments in education and the social sciences. (PR: EDF 7437 or equiv.; CI)

EDF 7484 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH III (4)
Theory and application of selected multivariate statistical procedures, including Canonical Correlation, Discriminant Analysis, Multivariate Analysis of Variance, and Factor Analysis. (PR: EDF 7408 or CI)

EDF 7485 THEORY AND PRACTICE OF EDUCATION EVALUATION (3)
Comparative analysis of contemporary evaluation models; model building based on theory and professional standards; ethics in internal and external evaluation; social and political impact of evaluation on decision making; and the design, implementation and dissemination of evaluation studies. (PR: EDF 7493 or CI).

EDF 7488 PROBLEMS IN EDUCATIONAL DATA ANALYSIS (2)
Strategies and techniques for data processing and quantitative analysis using statistical software, including data screening, transformation, diagnostic indices, and interpretation. (PR: EDF 7408 or CI)

EDF 7493 SYSTEMS APPROACHES FOR PROGRAM PLANNING, EVALUATION AND DEVELOPMENT (4)
An introduction to General Systems Theory and its applications in education, including educational theories and research. Special emphasis is placed on planning, developing, and evaluating educational programs. (PR: Advanced GS or CI)

EDF 7940 PRACTICUM IN EDUCATIONAL PLANNING, EVALUATION, AND DEVELOPMENT (1-8)
Supervised practicum in which the student assumes major responsibility for significant planning, evaluation, research, or development activity. Rpt. up to 8 hours. S/U. (PR: EDF 7408, EDF 7493)


COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

Other Information:
Please check with program before applying.
MEASUREMENT AND EVALUATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Measurement and Evaluation

DEGREE INFORMATION
Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Curriculum and Instruction
Concentration: Measurement and Evaluation
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION
Program Coordinator: Jeffrey D. Kromrey
Other Contact: N/A
Phone: 813-974-3220
Fax: 813-974-4495
Email: Kromrey@tempest.coedu.usf.edu
Web Address: www.coedu.usf.edu
Mailing Address:
University of South Florida
College of Education
Measurement and Research
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION
Program Description
The Ph.D. in Measurement and Evaluation focuses on the development of systematic inquiry skills essential to the study and evaluation of education processes and outcomes. The intent of the program is to develop personnel to work in universities, school districts, government agencies, commercial test publishing and program evaluation enterprises.

The doctoral program emphasizes research in inquiry methodology and applies problems in education and the behavioral sciences. A supervised practicum provides opportunities to apply methods in systematic inquiry in various settings. In sum, methodological skills are developed within a programmatic context that encourages growth of knowledge about education, considers important principles of research, and provides a clinical setting in which these elements can be fused into professional applications.

Emphasis is placed on those aspects of research and evaluation design, measurement, statistical analysis, and systems approaches that are relevant to both decision-oriented and conclusion-oriented research. Inquiry methods include traditional experimental and quasi-experimental designs as well as survey, policy analysis, historical, ethnographic, case study, and naturalistic approaches. The intent of the program is to develop instructional and research personnel who can strengthen the training, research and development capabilities of agencies and institutions concerned with education.

While the doctoral program in measurement, research, and evaluation emphasizes methodology, concentration in substantive disciplines within education and/or the social sciences is possible. Concentration in a cognate provides a context within which the methods of systematic inquiry may be applied.

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

ADMISSION INFORMATION
Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.5 Masters
3. Letters of recommendation
4. Interview
5. Concept Paper or goal statement

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1
DEGREE PROGRAM REQUIREMENTS

Program of Study:

Concentration/Specialization/Emphasis Area (28 hrs. minimum):
EDF 7940 (8) EDF 7488 (2) EDF 7493 (4)
EDF 7410 (4) EDF 7655 (4) EDG 7910 (3)

Curriculum and Instruction Elective (3 hrs. minimum):
EDG 7667 (3), EDG 7692 (3) or EDH ____ (waiting for course number)

Dissertation (24 hrs. minimum): 7980

Cognate Area (12 hrs. minimum):
Elective courses

Statistics/Measurement/Research Design (19 hrs. minimum, incl Tool requirement):
EDF 6407 (4) EDF 7408 (4) EDF 7484 (4)
EDF 7437 (3) EDF 7438 (4)

Foundations (7-8 hrs. minimum):
To be selected from offerings in Psychological Foundations and Sociological Foundations

EDUCATIONAL MEASUREMENT & RESEARCH COURSES

EDF 6407 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH I (4)
Theory and application of statistical procedures to problems in education: (1) Descriptive statistics, (2) Probability-sampling distributions, (3) Inferential statistics-interval estimation, tests of significance (z, t, F-one way ANOVA). Coordinated use of computer included.

EDF 6432 FOUNDATIONS OF MEASUREMENT (3)
Basic measurement concepts, role of measurement in education, construction of teacher-made objective tests and performance assessments, fundamental descriptive statistics for use in test interpretation, evaluation of standardized tests, and interpretation of standardized test score reports.

EDF 6446 DEVELOPMENT AND VALIDATION OF TESTS IN EDUCATION (3)
Design, construction, and validation of state-wide tests. Special emphasis on domain sampling, item response theory, item scaling, item fit, and constructing, maintaining, and updating item banks. (PR: EDF 6432, EDF 6407 or CI)

EDF 6481 FOUNDATIONS OF EDUCATIONAL RESEARCH (3)
Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies. (PR: EDF 6432, or CI)

EDF 6492 APPLIED EDUCATIONAL PROGRAM EVALUATION (3)
Design, interpretation, and evaluation of standardized tests; survey development and use; program evaluation; personnel evaluation; attitude assessment; and strategic planning.

EDF 6971 THESIS: MASTERS/EDUCATIONAL SPECIALIST (2-19 Var.) Rpt. S/U

EDF 7408 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH II (4)
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. (PR: EDF 6407 or equiv. or CI)

EDF 7410 DESIGN OF SYSTEMATIC STUDIES IN EDUCATION (4)
Theory and application of major design models to systematic inquiry, from experimental to naturalistic models. Nature and role of sampling in systematic studies. (PR: EDF 6407, EDF 7408 or equiv. or CI)

EDF 7437 ADVANCED EDUCATIONAL MEASUREMENT I (3)
Logical, empirical, and statistical models of measurement processes. Examination of scaling issues with a focus on reliability and validity. Critique of available instruments in education and the social sciences. (PR: EDF 6432 or equiv.; EDF 6407 or equiv.)

EDF 7438 ADVANCED EDUCATIONAL MEASUREMENT II (4)
Scaling techniques in educational and psychological measurement. Item analytic theories and practices. Application of psychometric theory to the construction and score validation of measurement instruments in education and the social sciences. (PR: EDF 7437 or equiv.; CI)

EDF 7484 STATISTICAL ANALYSIS FOR EDUCATIONAL RESEARCH III (4)
Theory and application of selected multivariate statistical procedures, including Canonical Correlation, Discriminant Analysis, Multivariate Analysis of Variance, and Factor Analysis. (PR: EDF 7408 or CI)
EDF 7485 THEORY AND PRACTICE OF EDUCATION EVALUATION (3)
Comparative analysis of contemporary evaluation models; model building based on theory and professional standards; ethics in internal and external evaluation; social and political impact of evaluation on decision making; and the design, implementation and dissemination of evaluation studies. (PR: EDF 7493 or CI).

EDF 7488 PROBLEMS IN EDUCATIONAL DATA ANALYSIS (2)
Strategies and techniques for data processing and quantitative analysis using statistical software, including data screening, transformation, diagnostic indices, and interpretation. (PR: EDF 7408 or CI)

EDF 7493 SYSTEMS APPROACHES FOR PROGRAM PLANNING, EVALUATION AND DEVELOPMENT (4)
An introduction to General Systems Theory and its applications in education, including educational theories and research. Special emphasis is placed on planning, developing, and evaluating educational programs. (PR: Advanced GS or CI)

EDF 7940 PRACTICUM IN EDUCATIONAL PLANNING, EVALUATION, AND DEVELOPMENT (1-8)
Supervised practicum in which the student assumes major responsibility for significant planning, evaluation, research, or development activity. Rpt. up to 8 hours. S/U. (PR: EDF 7408, EDF 7493)

EDF 7980 DISSERTATION (2-30 Var.) Rpt. (PR: Admission to Candidacy)


Required Courses From Other Departments

EDF 7655 ORGANIZATION DEVELOPMENT IN EDUCATIONAL INSTITUTIONS (4)
Application of social and behavioral science theory to the organizational and developmental problems of schools and school systems (PR: CI)

EDG 7667 ANALYSIS OF CURRICULUM AND INSTRUCTION (3)
Various theoretical frameworks for analyzing curriculum and instruction. Emphasis on rational models of curriculum inquiry. (PR: EDG 6627)

EDG 7692 ISSUES IN CURRICULUM AND INSTRUCTION (3)
Identification and analysis of major problems and issues in curriculum and instruction. Critical examination of efforts to deal with these issues. (PR: EDG 6627)

EDH ____ (waiting for course number and description)

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION
Please check with program before applying
# MIDDLE SCHOOL EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction  
Concentration: Middle School Education, English Education

<table>
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<th>DEGREE INFORMATION</th>
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<td>4202 E. Fowler Avenue EDU162</td>
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<td>Tampa FL 33620</td>
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**Inactive.** Currently, students are not being admitted to this program.
# MIDDLE SCHOOL EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction  
Concentration: Middle School Education, Mathematics Education

## DEGREE INFORMATION

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**Inactive.** Currently, students are not being admitted to this program.
# MIDDLE SCHOOL EDUCATION

Master of Education (M.Ed.) in *Curriculum and Instruction*  
Concentration: *Middle School Education, Science Education*

<table>
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<td>Tampa FL 33620</td>
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Inactive. Currently, students are not being admitted to this program.
MIDDLE SCHOOL EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Middle School Education, Social Studies Education

DEGREE INFORMATION

Degree Offered: Master of Education
Degree Program: Curriculum and Instruction
Concentration: Middle School Education, Social Studies Education
Program Status: Inactive
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: n/a
Other Contact: n/a
Phone: n/a
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu

Inactive. Currently, students are not being admitted to this program.
MUSIC EDUCATION

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Music Education

DEGREE INFORMATION

Degree Offered: Education Specialist (Ed.S.)
Degree Program: Curriculum and Instruction
Concentration: Music Education
Program Status: Inactive
Program Level: Specialist

CONTACT INFORMATION

Program Coordinator: n/a
Other Contact: n/a
Phone: n/a
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu
http://www.arts.usf.edu/

Mailing Address:
University of South Florida
College of Education
4202 E. Fowler Avenue EDU162
Tampa, FL 33620

Inactive. Currently, students are not being admitted to this program.
# MUSIC EDUCATION

**Doctor of Philosophy (Ph.D.) in Curriculum and Instruction**  
**Concentration: Music Education**

## DEGREE INFORMATION

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<td>Also see:</td>
<td>Concentration in Music Education offered under the Ph.D. in Music</td>
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## CONTACT INFORMATION

- **Program Coordinator:** n/a  
- **Other Contact:** n/a  
- **Phone:** n/a  
- **Fax:** n/a  
- **Email:** n/a  
- **Web Address:**
  - [http://www.coedu.usf.edu](http://www.coedu.usf.edu)  
  - [http://www.arts.usf.edu/](http://www.arts.usf.edu/)  
- **Mailing Address:**
  - University of South Florida  
  - College of Education  
  - 4202 E. Fowler Avenue EDU162  
  - Tampa FL 33620

## PROGRAM INFORMATION

Contact the School of Music for information.
PHYSICAL EDUCATION

Master of Arts (M.A.) in Physical Education

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Physical Education
Concentrations: Exercise Science
See separate listing for Physical Education – Exercise Science
Program Status: Active
Program Level: Masters
Also see: Physical Education, Exercise Science

CONTACT INFORMATION

Program Director: TBA
Other Contact: n/a
Phone: 813-974-3443
Fax: 813-974-4979
Email: n/a
Web Address: http://pe.usf.edu/grad/pe/

Mailing Address:
University of South Florida
College of Education
School of Physical Education
4202 E. Fowler Avenue PED214
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Contact program for information

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools, National Council for Accreditation of Teacher Education, National Association for Sport and Physical Education.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of initial certification (Plan I)

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Physical Education K-12
Two plans are available (Plan I, Plan III).

Plan I –
Program of Study 30 hours minimum

Process Core
EDF 6432 3 hours, EDF 6481 – 3 hours.

Current Trends in Physical Education 3 hours
PET 6535C 3 hours.

Elective (3 hours)
Select from the following or others approved by advisor
24 hours
PET 6205       PET 6645       PET 6906
PET 6695C      PET 6425       PET 6910L
PET 6496       PET 6346       PET 6419

Comprehensive Examination - A written comprehensive examination is required during the semester in which the student completes the requirements for the master’s degree.

Plan III –
Program of Study 30 hours minimum

Process Core
EDF 6432 EDF 6481 6 hours

Current Trends in Physical Education 3 hours.
PET 6535C 3 hours.
This is an individually planned program. The student will select 21 hours of coursework in consultation with an advisor.

Comprehensive Exam - A written comprehensive examination is required during the semester in which the student completes the requirements for the master’s degree

COURSES
http://www.ugs.usf.edu/sab/sabs.cfm
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
PHYSICAL EDUCATION

Master of Arts (M.A.) in Physical Education
Concentration: Exercise Science

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Physical Education
Concentration: Exercise Science
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: TBA
Other Contact: n/a
Phone: 813-974-3443
Fax: 813-974-4979
Email: n/a
Web Address: http://pe.usf.edu/grad/pe/
Mailing Address:
University of South Florida
College of Education
School of Physical Education
4202 E. Fowler Avenue PED214
Tampa FL 33620

PROGRAM INFORMATION

Contact program for information.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools, National Council for Accreditation of Teacher Education, National Association for Sport and Physical Education.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE of 1000 OR
2. Minimum GPA of 3.0

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Exercise Science Concentration
Process Core
EDF 6432, EDF 6481
18 hours selected from Program of Study Listing:
http://www.pe.usf.edu

PET 6971 – Thesis: Physical Education

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
READING EDUCATION

Master of Arts (M.A.) in Reading Education

DEGREE INFORMATION

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CONTACT INFORMATION

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<tr>
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<th>Nancy Williams</th>
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<tr>
<td>Other Contact:</td>
<td>Christine Miranda</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-3460</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-0938</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:Nwilliam@tempest.coedu.usf.edu">Nwilliam@tempest.coedu.usf.edu</a></td>
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<td><a href="mailto:Miranda@tempest.coedu.usf.edu">Miranda@tempest.coedu.usf.edu</a></td>
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<tr>
<td>Web Address:</td>
<td><a href="http://www.coedu.usf.edu/main/">http://www.coedu.usf.edu/main/</a></td>
</tr>
</tbody>
</table>

Mailing Address:
University of South Florida
College of Education
Childhood Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
This degree is designed to prepare special reading teachers, clinicians, supervisors, directors, and coordinators of reading for school systems.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE required if upper-division GPA is less than 3.0
2. Minimum GPA of 2.5
3. CLAST/GKT/Praxis 1

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

30-33 hours minimum.
Please contact program for more information.

Program and/or course requirements are subject to change, per state legislative mandates, Florida State Department of Education program approval standards, and accreditation criteria.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
READING EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Reading Education

DEGREE INFORMATION

Degree Offered: Master of Education - M.Ed.
Degree Program: Curriculum and Instruction
Concentration: Reading Education
Program Status: Inactive
Program Level: Masters
Also See: M.A. in Reading Education

CONTACT INFORMATION

Program Coordinator: Susan Homan
Other Contact: Christine Miranda
Phone: 813-974-3460
Fax: 813-974-0938
Email: Homan@tempest.coedu.usf.edu
Email: Miranda@tempest.coedu.usf.edu
Web Address: www.coedu.usf.edu/main/

Inactive. Currently, no students are being admitted to this program.
READING-LANGUAGE ARTS EDUCATION

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Reading-Language Arts Education

DEGREE INFORMATION

Degree Offered: Education Specialist (Ed.S.)
Degree Program: Curriculum and Instruction
Concentration: Reading-Language Arts Education
Program Status: Active
Program Level: Specialist

CONTACT INFORMATION

Program Coordinator: Susan Homan
Other Contact: Christine Miranda
Phone: 813-974-3460
Fax: 813-974-0938
Email: Homan@tempest.coedu.usf.edu
       Miranda@tempest.coedu.usf.edu
Web Address: www.coedu.usf.edu/main/

PROGRAM INFORMATION

Program Description
This degree prepares in-school leaders in the field (directors of R/LA programs for school systems, clinical directors in private or public settings, or curriculum supervisors.) Through program experiences, students acquire expertise in reading/language arts processes, design and evaluation of instructional materials and techniques, and treatment of reading/language arts problems. A student may elect to acquire more depth in certain areas, but a basic knowledge in all is required.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores
3. GRE Required
4. Minimum GPA of 3.5 Masters
5. Proof of educational or professional experience
6. Proof of initial certification
7. Letters of recommendation
8. Interview
9. Concept Paper or goal statement

Requirements for all applicants include:

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

The program requires a minimum of 36 hours beyond the Master’s degree, including coursework, written comprehensive examination, and a project. The Ed.S. program is separate from the Ph.D. and is planned as a terminal degree. Ed.S. coursework is not necessarily applicable to the Ph.D. degree. Each student’s program is individually planned in consultation with a faculty program committee.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
# READING AND LANGUAGE ARTS EDUCATION

**Doctor of Philosophy (Ph.D.) in Curriculum and Instruction**  
**Concentration:** Reading and Language Arts Education

## DEGREE INFORMATION

<table>
<thead>
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<th>Doctor of Philosophy (Ph.D.)</th>
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<td>Program Level:</td>
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</tr>
</tbody>
</table>

## CONTACT INFORMATION

| Program Coordinator:     | Susan Homan                  |
| Other Contact:           | Christine Miranda            |
| Phone:                   | 813-974-3460                 |
| Fax:                     | 813-974-0938                 |
| Email:                   | Homan@tempest.coedu.usf.edu  |
|                          | Miranda@tempest.coedu.usf.edu|
| Web Address:             | www.coedu.usf.edu/main/      |
| Mailing Address:         | University of South Florida  |
|                          | College of Education         |
|                          | Childhood Education          |
|                          | 4202 E. Fowler Avenue EDU162 |
|                          | Tampa FL 33620               |

## PROGRAM INFORMATION

**Program Description**  
The program has been designed primarily to prepare professionals in the area of literacy who will work as teacher educators and researchers at the university level, and leaders and researchers at the district level. The philosophical underpinnings of the program lie in the identification of the roles of teacher educators working in the university settings.

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

## ADMISSION INFORMATION

**Program Admission Requirements**  
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency  
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required  
2. Minimum GPA of 3.5 Masters  
3. Proof of educational or professional experience  
4. Proof of initial certification  
5. Letters of recommendation  
6. Interview  
7. Concept Paper or goal statement

**Program Admission Deadlines**  
- Fall deadline: June 1  
- Spring deadline: October 15  
- Summer deadline: March 1

## DEGREE PROGRAM REQUIREMENTS

The program requires a minimum of 75-81 hours beyond the Master’s degree. Each student’s program is individually planned in consultation with a faculty program committee.

**COURSES**  
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
SCHOOL PSYCHOLOGY

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

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: School Psychology
Concentrations: n/a
Program Status: Active
Program Level: Masters

- only available when combined with the Ed.S. or Ph.D. degree

CONTACT INFORMATION

Program Director: Kathy Bradley-Klug
Program Assistant, 813-974-3246
Phone: 813-974-9486
Fax: 813-974-5814
Email: Kbradley@tempest.coedu.usf.edu
Web Address: www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Psychological and Soc. Foundations
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The M.A. degree in School Psychology is offered only when combined with the Ed.S. and/or Ph.D. degrees. The M.A. in School Psychology is not a terminal degree and can not be used for certification or licensure as a school psychologist in the State of Florida. Please see the Ed.S. and Ph.D. program descriptions for information about the School Psychology Program.

ADMISSION INFORMATION

Refer to the admission information on the Ed.S. and/or Ph.D. Degree listings.

DEGREE PROGRAM REQUIREMENTS

Contact program for specific information.
http://www.coedu.usf.edu/schoolpsych

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm
SCHOOL PSYCHOLOGY

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: School Psychology

DEGREE INFORMATION

Degree Offered: Education Specialist (Ed.S.)
Degree Program: Curriculum and Instruction
Concentration: School Psychology
Program Status: Active
Program Level: Specialist

CONTACT INFORMATION

Program Director: Kathy Bradley-Klug
Other Contact: Program Assistant,
Phone: 813-974-3246
Fax: 813-974-5814
Email: Kbradley@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/schoolpsych/

Mailing Address:
University of South Florida
College of Education
Psychological and Soc. Foundations
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
School Psychology is offered as a concentration under the Ed.S. Curriculum and Instruction degree program. The Educational Specialist (Ed.S.) degree consists of approximately 95 graduate semester hours beyond the bachelor’s degree, and includes two years of practica experiences and then a full-year, 1,500 clock hour internship and a thesis or Research Project. Completion of the Ed.S. degree requires three (3) years of full-time study, including summer semesters.

The Ed.S. Program is 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.)

For additional information on the Ed.S. in Curriculum and Instruction (with a Concentration Specialization in School Psychology), contact the program.
http://coedu.usf.edu/schoolpsych

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools, NCATE and Approved by the National Association of School Psychologists.

ADMISSION INFORMATION

Admission occurs once each year for the Fall class. The School Psychology program is a limited access program. This means that only a limited number of students are able to be accepted each year. It is also a direct receipt program. Please check with the program for specific information.

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required
2. Minimum GPA of 3.5 Masters
3. Proof of educational or professional experience
4. Letters of recommendation
5. Interview
6. Concept Paper or goal statement

Program Admission Deadlines
Visit website for current deadlines.
DEGREE PROGRAM REQUIREMENTS

Problem Solving/Assessment/Intervention
24 Semester Hours

Psychological Foundations
19 Semester Hours

Educational Foundations
11 Semester Hours

Professional Practice
5 Semester Hours

Statistics/Research Design/Thesis
17 Semester Hours

Practicum/Internship
20 Semester Hours

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
www.coedu.usf.edu/schoolpsych
SCHOOL PSYCHOLOGY

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: School Psychology

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Curriculum and Instruction
Concentration: School Psychology
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Kathy Bradley-Klug
Other Contact: Program Assistant, Program Assistant, 813-974-3246
Phone: 813-974-9486
Fax: 813-974-5814
Email: Kbradley@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/schoolpsych/
Mailing Address:
University of South Florida
College of Education
Psychological and Soc. Foundations
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Doctor of Philosophy (Ph.D.) degree consists of approximately 64 semester hours beyond the Ed.S. degree in School Psychology and includes advanced leadership coursework and practica experiences, concentration and area of emphasis courses in school psychology, a 2,000 clock hour internship, and the dissertation. A Master of Arts (M.A.) degree is earned by most students during the first year of their Ph.D. program. However, the M.A. is not considered a terminal degree and is not sufficient for state certification in school psychology.

The Ph.D. program in School Psychology at the University of South Florida is offered through the College of Education’s Department of Psychological and Social Foundations. 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 trainers 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 Commission on Colleges of the Southern Association of College and Schools, NCATE, Approved by the National Association of School Psychologists and Accredited by the American Psychological Association.

Major Research Areas:

ADMISSION INFORMATION
Admission occurs once each year for the Fall class. The School Psychology program is a limited access program. This means that only a limited number of students are able to be accepted each year. It is also a direct receipt...
Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.5 Masters
3. Proof of educational or professional experience
4. Letters of recommendation
5. Interview
6. Concept Paper or goal statement

Program Admission Deadlines
Visit website for current deadlines.

DEGREE PROGRAM REQUIREMENTS
The Ph.D. program consists of a minimum of 62 credit hours beyond the Ed.S. program. The Ph.D. program requires advanced course work in leadership, interventions, professional practices, statistics/research methods, and an area of emphasis (e.g. pediatric school psychology, policy development/analysis, research concentration) within the broader school psychology curriculum, and additional practica experiences, all allowing for more in-depth study of content and issues in the field. A doctoral level internship (2000 hours) must be completed by all doctoral students.

In addition to admitting students at the Post-Baccalaureate Level, the USF School Psychology program admits Ph.D. students who have already earned an Ed.S. or the equivalent and are certified as school psychologists and/or who are looking for advanced doctoral study in the field

Full-time study is required of most Ph.D. students at least until they complete all coursework and Qualifying Exams and have only the dissertation to complete. Minimally, this will involve three years of full-time study after the M.A. degree. Full-time study involves a minimum of 9 semester hours of coursework per semester. Residency involves consecutive academic years of full-time study; students are allowed assistantship work or a part-time job up to 20 hours per week during residency. A part-time Ph.D. option is available for selected students; more information on this option is available from the Program Coordinator.

Program Requirements:
1. Completion of all coursework for the Ed.S. Program
2. Advanced Course Work in the Following Areas:
   a. Statistics/Design-8 sh
   b. Professional Practice-6 sh
   c. Problem Solving/Intervention-8 sh
   d. Practicum/Internship-18 sh
   e. Area of Emphasis-12 sh

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION
http://www.coedu.usf.edu/schoolpsych
# SCIENCE EDUCATION

## Master of Arts (M.A.) in Science Education

### DEGREE INFORMATION

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### CONTACT INFORMATION

<table>
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<tr>
<th>Program Coordinator:</th>
<th>Elaine Howes</th>
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<tbody>
<tr>
<td>Other Contact:</td>
<td>Dana L. Zeidler</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-2816</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-3837</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:Ehowes@coedu.usf.edu">Ehowes@coedu.usf.edu</a></td>
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<tr>
<td>Web Address:</td>
<td><a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
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<td>Mailing Address:</td>
<td>University of South Florida</td>
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<td>Secondary Education</td>
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<td>4202 E. Fowler Avenue EDU162</td>
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<td></td>
<td>Tampa FL 33620</td>
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### PROGRAM INFORMATION

**Program Description**

Plan I – The Plan I track is a program of graduate study designed for those with initial certification in the area of concentration (typically with a baccalaureate degree from a college of education) who desire to increase their competence in the subject specialization. It is an individually planned program of study in consultation with a departmental advisor.

Plan II – The MA Plan II track is for individuals with a bachelor’s degree in a field other than education who wish to become certified teachers in science education at the middle or senior high school level. Three areas of concentration are available. This program leads to teaching certification in grade 6-12 science education as part of the master’s degree program. For the general program structure, admission and program requirements, refer to the College of Education listing or contact the program.

**Accreditation:** Accredited by the Commission on Colleges of the Southern Association of College and Schools, the National Council for Accreditation of Teacher Education, and the Department of Education.

### ADMISSION INFORMATION

**Program Admission Requirements**

For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE, CLAST, GKT, or Praxis I Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Proof of initial certification (Plan I)

**Program Admission Deadlines**

- Fall deadline: June 1
- Spring deadline: October 15
- Summer deadline: March 1

### DEGREE PROGRAM REQUIREMENTS

**Plan I**

Program of Study: 33 hours minimum

A. Process Core 12 hours
   - EDF 6432
   - EDF 6211 or EDF 6215
   - EDF 6517 or EDF 6544 or EDF 6606
   - EDF 6481 or an equivalent research methods course.

B. Current Trends in Science Education (SCE 6634) 3 hours

C. Specialization: 18 hours minimum – courses to be taken in the College of Arts and Sciences based on the prior background and interests of the student.

D. Comprehensive Examination
Plan II
Program Requirements:
Program of Study: 60 hours minimum

A. Process Core 15-16 hrs.
   EDF 6432
   EDF 6211 or EDF 6215
   EDF 6481
   EDF 6517 or EDF 6544 or EDF 6606
   EDG 6627*
   *(Students may take EDG 4620 in lieu of EDG 6627)

B. ESE 5344 Classroom Management 3 hours

C. FLE 5365 ESOL Competencies & Strategies 3 hours

D. Professional Science Education Courses (15 hours)
   SCE 4305 Reading and Communication in Science Education (3)
   SCE 4320 Methods Middle School Science (3)
   SCE 4330 Methods Secondary School Science (3)
   SCE 6737 STS (3)
   SCE 6634 Current Trends in Science Education (3)
   *(Any course substitutions must be approved by the Program Coordinator)

E. Specialization 18 hours minimum (Courses taken in the College of Arts and Sciences)

F. Internship 6 hours. For further information, access www.coedu.usf.edu/sas

G. Comprehensive examination

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

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
SCIENCE EDUCATION

Master of Arts in Teaching (M.A.T.) in Science Education

DEGREE INFORMATION

Degree Offered: Master of Arts in Teaching - M.A.T.
Program Name: Science Education
Concentration: n/a
Program Status: Check with program for status
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Elaine Howes
Other Contact: Dana L. Zeidler
Phone: 813-974-2816
Fax: 813-974-3837
Email: Ehowes@coedu.usf.edu
Web Address: http://www.coedu.usf.edu

PROGRAM INFORMATION

Program Description
The Masters of Arts in Teaching (M.A.T.) in Science Education is designed for individuals with a bachelor's degree in science (or equivalent) who wish to become certified teachers in science education at the middle or senior high school level. This program leads to teaching certification in grade 6-12 science education as part of the master’s degree program. For the general program structure, admission and program requirements, please see http://web.usf.edu/~sl/MASTRACI/MATScience.htm

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. CLAST/GKT

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
SCIENCE EDUCATION, BIOLOGY

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Science Education, Biology

DEGREE INFORMATION

Degree Offered: Master of Education - M.Ed
Program Name: Curriculum and Instruction
Concentration: Science Education, Biology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Elaine Howes
Other Contact: Dana L. Zeidler
Phone: 813-974-2816
Fax: 813-974-3837
Email: Ehowes@coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student’s advisory committee. At least 60 percent of the program hours must be at the 6000 level.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE, GKT, CLAST or Praxis I Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Program of Study 33 hours minimum

A. Process Core (15 hours)
EDF 6432 (3) Foundations of Measurement
EDF 6481 (3) Foundations of Educational Research
EDF 6211 or EDF 6215 (3) Psy. Foundations or Learning Principles
EDF 6517, EDF 6544, or EDF6606 (3) Foundations of Education
EDG 6627 (3)

B. Science Education Specialization 18 hours minimum, to include:
SCE 6634 Trends in Science Education 3 hours
Specialization (content) Coursework 15 hours from the College of Arts and Sciences and/or the College of Education as determined by the program advisor.

C. Electives
(6 hours in COE courses approved by program faculty)

D. Comprehensive Examination

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
SCIENCE EDUCATION, CHEMISTRY

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Science Education, Chemistry

DEGREE INFORMATION

Degree Offered: Master of Education - M.Ed
Program Name: Curriculum and Instruction
Concentration: Science Education, Chemistry
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Elaine Howes
Other Contact: Dana L. Zeidler
Phone: 813-974-2816
Fax: 813-974-3837
Email: Ehowes@coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
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College of Education
Secondary Education
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Tampa FL 33620

PROGRAM INFORMATION

Program Description
The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student’s advisory committee. At least 60 percent of the program hours must be at the 6000 level.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Program of Study 33 hours minimum

A. Process Core (15 hours)
EDF 6432 (3) Foundations of Measurement
EDF 6481 (3) Foundations of Educational Research
EDF 6211 or EDF 6215 (3) Psy. Foundations or Learning Principles
EDF 6517, EDF 6544, or EDF6606 (3) Foundations of Education
EDG 6627 (3)

B. Science Education Specialization 18 hours minimum, to include:
SCE 6634 Trends in Science Education 3 hours
Concentration (content) Coursework 15 hours from the College of Arts and Sciences and/or the College of Education as determined by the program advisor.

C. Electives
(6 hours in COE courses approved by program faculty)

D. Comprehensive Examination

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
## SCIENCE EDUCATION, PHYSICS

**Master of Education (M.Ed.) in Curriculum and Instruction**  
**Concentration: Science Education, Physics**

### DEGREE INFORMATION

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### CONTACT INFORMATION

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</tbody>
</table>

### PROGRAM INFORMATION

**Program Description**

The M.Ed. degree in Curriculum and Instruction is a flexible program intended to improve the skills of the classroom teacher. The program will be planned with the student’s advisory committee. At least 60 percent of the program hours must be at the 6000 level.

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

### ADMISSION INFORMATION

**Program Admission Requirements**

For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience

### DEGREE PROGRAM REQUIREMENTS

**Program of Study** 33 hours minimum

**A. Process Core** (15 hours)

- EDF 6432 (3) Foundations of Measurement
- EDF 6481 (3) Foundations of Educational Research
- EDF 6211 or EDF 6215 (3) Psy. Foundations or Learning Principles
- EDF 6517, EDF 6544, or EDF6606 (3) Foundations of Education
- EDG 6627 (3)

**B. Science Education Concentration** 18 hours minimum, to include:

- SCE 6634 Trends in Science Education 3 hours
- Specialization (content) Coursework 15 hours from the College of Arts and Sciences and/or the College of Education as determined by the program advisor.

**C. Electives**

(6 hours in COE courses approved by program faculty)

**D. Comprehensive Examination**

COURSES

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
SCIENCE EDUCATION

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Science Education

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<tr>
<th>DEGREE INFORMATION</th>
<th>CONTACT INFORMATION</th>
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<tbody>
<tr>
<td>Degree Offered:</td>
<td>Program Coordinator: Dana L. Zeidler</td>
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<td>Other Contact:</td>
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<td>Program Name:</td>
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Inactive. Currently, no students are being admitted to this program.
SCIENCE EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Science Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Program Name: Curriculum and Instruction
Concentration: Science Education
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: Dana L. Zeidler
Other Contact: n/a
Phone: 813-974-7305
Fax: 813-974-3837
Email: Zeidler@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

The Science Education doctoral program in the College of Education is committed to providing students with opportunities to examine and expand their pedagogical content knowledge and immerses them in the research process. In doing so, the program is able to graduate exceptional leaders to the field. The collective philosophy of the Science Education program, therefore, is to foster a vision of science literacy that encourages: constructing theoretical and practical knowledge of the natures of science, developing habits of mind open to multiple scientific perspectives, stressing skepticism and critical thinking, developing conceptual understanding of epistemology applied to pedagogical content knowledge, embedding science in cultural, moral and historical contexts, and providing opportunities for students to generate their own meaningful questions and design approaches to investigate original issues relevant to the science education community.

The exploration of past, present, and future practices, and understanding how current decisions affect future trends is approached through a close professional and personal relationship between faculty and graduate students. This relationship includes advising and working together in directed studies and seminars, professional associations, and informal gatherings as well as discussions about issues in education in general, and science education in particular. The fact that graduate students are regarded as professional colleagues with unique areas of expertise from the beginning of their association with the department contributes substantially to their development as science educators.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.5 Masters
3. Letters of recommendation

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

The program is 75-81 hours in length, minimum:

Curriculum 3 hrs.

Concentration/Specialization Course Work 18 hrs., of which at least 12 hrs. must be at the 7000 level, or 6000 level with advanced graduate standing.
In the specialization, students may select from any science content courses offered at the time of study. Course titles and offerings may change as they are updated or added. Courses taught over the last two years are listed below. Courses may include, but are not limited to:

- Epistemology and Nature of Science
- Cognition and Reasoning in Science Education
- Moral and Ethical Issues in Science and Society
- Cultural Diversity in Science Education
- Current Trends in Science Education
- Technology: Solving Societal Problems
- Marine Science Education: Building Communities I, and II.

Other courses from related program areas may be used in this area with permission of the program coordinator, and approval from the College.

**Cognate Area 12 hrs.**
Courses in this area may be thought of as either a “minor” or a collection of courses that best compliments students’ coursework and future research interests.

**Measurement/Statistics/Research Design 11-16 hrs.**
Required: EDF 6407 and EDF 7408

Selection of one qualitative course with the approval of the program committee. Selection of an additional 7000 level quantitative, qualitative and/or methodological course(s) approved by the program committee strongly recommended.

**Foundations 7-8 hrs. minimum**
At least one course each must be selected from the Psychological Foundations area and the Philosophical/Social/Historical Foundations area.

**Dissertation – 24 hrs. minimum**

**COURSES**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
SECOND LANGUAGE ACQUISITION AND INSTRUCTIONAL TECHNOLOGY

Doctor of Philosophy (Ph.D.) in Second Language Acquisition and Instructional Technology

**DEGREE INFORMATION**

- **Degree Offered:** Doctor of Philosophy (Ph.D.)
- **Degree Program:** Second Language Acquisition and Instructional Technology (SLAIT)
- **Concentrations:** n/a
- **Program Status:** Active
- **Program Level:** Doctoral

Cross-listed under the College of Arts and Sciences, the College of Education and the Interdisciplinary Programs Sections.

**CONTACT INFORMATION**

- **Program Directors:** Carine Feyten, College of Education and Jeffra Flaitz, College of Arts and Sciences
- **Phone:** 813-974-3533
- **Email:** feyten@usf.edu
- **Web Address:** [http://www.coedu.usf.edu/slait](http://www.coedu.usf.edu/slait)
- **Mailing Address:**
  University of South Florida
  College of Education
  SLAIT Program
  4202 E. Fowler Avenue, EDU162
  Tampa, FL 33620

**PROGRAM INFORMATION**

This is an interdisciplinary program between the College of Education and the College of Arts and Sciences and combines the expertise of both faculties to provide a curriculum in pedagogy, world language education, second language acquisition, sociolinguistics, sociocultural theory, instructional technology, and statistics, research design. The goal of the program is to prepare students for careers in academia.

**Accreditation:**

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

**Major Research Areas:**

Second Language Acquisition, Instructional Technology, Foreign Language Education, Distance Learning.

**ADMISSION INFORMATION**

**Program Admission Requirements**

For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE score
2. 3.5 Mast.

3. Proof of educational experience
4. Letters of recommendation
5. Interview
6. Concept Paper

**Program Admission Deadlines**

See website: [http://www.coedu.usf.edu/slait](http://www.coedu.usf.edu/slait)

**DEGREE PROGRAM REQUIREMENTS**

Statement of purpose; evidence demonstrating experience in computer literacy and evidence of scholarly promise; personal interview with graduate faculty; two (2) hour background assessment to assist the graduate faculty in planning your program; Master's degree; minimum GPA of 3.5 (or international equivalent); minimum score of 1000 on GRE (Combined score on Verbal and Quantitative); TOEFL score of 600 (paper-based) and 250 (computer-based) if applicable. Students must demonstrate proficiency in two languages before reaching candidacy.

**Program of Study:** 75 credit hours - core courses (45-46 semester hours); electives 9-12 semester hours; dissertation (18 semester hours)

**COURSES** - See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION**

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.
SECONDARY EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration:  Secondary Education

DEGREE INFORMATION

Degree Offered:  Doctor of Philosophy (Ph.D.)
Program Name:  Curriculum and Instruction
Concentration:  Secondary Education
Program Status:  Active
Program Level:  Doctoral

CONTACT INFORMATION

Program Coordinator:  Michael J. Berson
(Secondary, Social Science Education Concentration)
Other Contact:  Jane Applegate
(Information on general Secondary Concentration, call 813-974-0383)
Phone:  813-974-7917
Fax:  813-974-3837
Email:  Berson@tempest.coedu.usf.edu
Web Address:  http://www.coedu.usf.edu/main/departments/seced/ssePhD choices.html
Mailing Address:  University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Ph.D. in Curriculum and Instruction, with a concentration in Secondary Education, is granted on evidence of distinctive academic achievement and by the demonstration of ability to do original, independent investigation culminating in a dissertation. This program is highly individualized. The student's program of study is planned (with the approval of a faculty committee) based upon previous experience and future goals.

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

Major Research Areas:  an emphasis in Social Science Education is available.

ADMISSION INFORMATION

Program Admission Requirements
For admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. GRE
2. Minimum GPA of 3.5 in Master’s Program
3. Three letters of recommendation
4. Personal Statement

Program Admission Deadlines
Students are admitted every two years as part of a cohort.

DEGREE PROGRAM REQUIREMENTS
The highly individualized focus of this concentration requires that students make contact with a faculty advisor to determine program requirements.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
SOCIAL SCIENCE EDUCATION

Master of Arts (M.A.) in Social Science Education

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Program Name: Social Science Education
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Barbara Cruz
Phone: 813-974-3533
Fax: 813-974-3837
Email: cruz@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/deptseced/socscied
Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
Plan I. This program is designed for teachers certified in social science education, typically with a baccalaureate degree from a college of education. It is an individually planned program based on a student’s background and professional goals.

Plan II. The MA Plan II degree is for individuals with a bachelor's degree in a field other than education who wish to become a certified teacher in social science at the middle or senior high school level. This program leads to teaching certification in grade 6-12 social sciences as part of the master’s degree program. For the general program structure, admission and program requirements, refer to the College of Education listing or contact the program.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools and by the National Council for the Social Studies.

PROGRAM INFORMATION

Requirements for all applicants include:
1. Minimum GPA of 3.0 in last 60 hours of bachelor’s program.
2. Proof of educational or professional experience
3. Proof of initial certification
4. Coursework is allowed in lieu of GPA

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Plan I
Program of Study 30 hours minimum
Process Core 3 hrs.
Current Trends in Social Science Education (SSE 6636) 3 hours
Social Science Education
Special Topics (SSE 6932) 6 hours
Concentration 18 hours minimum (Courses taken in the College of Arts and Sciences)
Comprehensive examination

Plan II
In addition to the graduate coursework listed below, students must take the following social science methods courses to satisfy teacher certification requirements:
SSE 5331, SSE 5332, SSE 5641, ESE 5322,
ESE 5344, FLE 5366 and SSE 4335.

Program of Study 57 hours minimum
Process Core 15-16 hrs.
EDF 6432 EDF 6211 or EDF 6215 EDF 6481 EDF 6517
or EDF 6544 or EDF 6606 EDG 6627
Current Trends in Social Science Education (SSE 6636)
3 hours
Concentration 18 hours minimum (Courses taken in the
College of Arts and Sciences)
Internship 6 hours
Comprehensive examination

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
SOCIAL SCIENCE EDUCATION

Master of Arts in Teaching (M.A.T.) in Social Science Education

DEGREE INFORMATION

Degree Offered: Master of Arts in Teaching (M.A.T.)
Program Name: Social Science Education
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Barbara Cruz
Phone: 813-974-3533
Fax: 813-974-3837
Email: cruz@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/deptseced/socscied

Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

The MAT 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 program leads to teaching certification in grade 6-12 social sciences as part of the master's degree program. For the general program structure, admission and program requirements, refer to the College of Education listing or contact the program.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of College and Schools and the National Council for the Social Studies.

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0 in last 60 hours of bachelor’s program
2. CLAST/GKT
3. Coursework is allowed in lieu of GPA

DEGREE PROGRAM REQUIREMENTS

Consult the Program website, www.coedu.usf.edu/deptseced/socscied, or the program’s coordinator for specific requirements.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
# SOCIAL SCIENCE EDUCATION

## Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Social Science Education

### DEGREE INFORMATION

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<td><strong>Program Name:</strong></td>
<td>Curriculum and Instruction</td>
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### CONTACT INFORMATION

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<th><strong>Program Coordinator:</strong></th>
<th>Barbara Cruz</th>
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<td><strong>Other Contact:</strong></td>
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### Mailing Address:
University of South Florida
College of Education
Secondary Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

### PROGRAM INFORMATION

**Program Description**
This program 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 program based on a student’s background and professional goals. Contact the program coordinator for more information.

**Accreditation:** Accredited by the Commission on Colleges of the Southern Association of College and Schools and the National Council for the Social Studies.

### ADMISSION INFORMATION

**Program Admission Requirements**
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. Minimum GPA of 3.0
2. Proof of educational or professional experience
3. Proof of initial certification
4. Coursework is allowed in lieu of GPA or GRE requirement

### DEGREE PROGRAM REQUIREMENTS

Consult the Program website, www.coedu.usf.edu/deptseced/socscied, or the program’s coordinator for specific requirements.

### COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm

### Other Information:
Please check with program prior to applying.
SPECIAL EDUCATION, BEHAVIOR DISORDERS

Master of Arts (M.A.) in Special Education, Behavior Disorders

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Program Name: Special Education, Behavior Disorders
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Tanice Knopp
Other Contact: Dept. Student Advisor
Phone: 813-974-9452 or 813-974-9941
Fax: 813-974-5542
Email: Tknopp@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/sped/MastersDegree.html
Mailing Address:
University of South Florida
College of Education
Special Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Master’s Programs in the Department of Special Education prepare special education teacher leaders for work in public and private schools and in state, federal, or community settings. Specific areas of education and training include behavior disorders, mental retardation, specific learning disabilities, and varying exceptionalities (exceptional student education.) The program 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, and are knowledgeable of theory research and skilled in the best practices of special education. Graduates of this program will have advanced clinical and pedagogical skills in working with children with disabilities and their families. The program is structured so that students can maintain full-time employment while pursuing their degrees through non-traditional scheduling, including web-based and accelerated course delivery.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field-based practica. Students provide their own transportation to practicum and internship sites.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required
2. Minimum GPA of 3.0
3. Proof of educational or professional experience
4. Proof of initial certification
5. Coursework is allowed in lieu of GPA or GRE requirement
6. Letters of recommendation

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.
Plan I - The M.A. program in special education is a 36-hour program, designed for students with an undergraduate degree in special education. A minimum core of 24 hours is taken in special education with field work and coursework required in certification areas.

This program is delivered through a number of formats. Evening and on-line courses are offered during the Fall, Spring and Summer semesters. Daytime courses are sometimes offered during the summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study: (36 hour minimum)

Process Core: (3 hours)
EDF 6481 Foundations of Educational Research

Current Trends in Special Education: (3 hours)
EEX 6939

Concentration: (27 hours minimum)
Special Education Program Core: (21 hours)
EEX 6025 EEX 6612 EEX 6222
EEX 6245 EEX 6732 EEX 5752
EEX 6248
* Not required, if equivalent course taken in undergraduate program.

Behavior Disorder Courses (6 hours)
EED 6215 EEX 6943

Electives: (3-6 hours)
Elective coursework relevant to the student’s program of study are required and must be approved by the faculty advisor.

Comprehensive Examination: A project is required to fulfill the comprehensive examination requirement.

Plan II – This program is no longer offered. See the M.A.T. in Varying Exceptionalities (Exceptional Student Education-ESE) to earn a graduate degree and certification in ESE and ESOL.

Plan III - This option is also available for students who are not certified in special education. An interview is required for all students seeking admission to the Plan III Program.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
SPECIAL EDUCATION, GIFTED

Master of Arts (M.A.) in Special Education, Gifted

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Program Name: Special Education, Gifted
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Elizabeth Shaunessy
Other Contact: Dept. Student Advisor
Phone: 813-974-7007 or 813-974-9941
Fax: 813-974-5542
Email: Shaunessy@coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
Special Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Master’s Program in Gifted Education provides advanced training for certified teachers to work with gifted and talented students and with other teachers on a consultant or collaborative basis. Emphasis is placed on characteristics and needs of special populations, assessing individual student’s cognitive and affective strengths and weaknesses, modifying educational programs to develop gifted student’s potential, and consulting with gifted students, their families and teachers. This program qualifies students for the State of Florida endorsement in Gifted Education.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field based experiences: practica and internships. Students provide their own transportation to practicum and internship sites.

Plan I - The Gifted Child Teacher Preparation program provides advanced training for certified teachers to work with gifted and talented children and to work with other teachers on a consultant or collaborative basis. The majority of the required courses for this program are delivered through an on-line format. 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 and weaknesses, modifying educational programs to develop gifted students’ potential, and consulting with gifted students, their families, and teachers. This program qualifies students for the State of Florida endorsement in Gifted Education.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:
1. Minimum GPA of 3.0
2. Proof of educational or professional experience
3. Proof of initial certification
4. Coursework is allowed in lieu of GPA or GRE requirement
5. Letters of recommendation

Program Admission Deadlines
Fall deadline: March 1
Spring deadline: October 15
DEGREE PROGRAM REQUIREMENTS

Program of Study: 36 hours
Process Core: (3 hours)– EDF 6481

Current Trends in Special Education: (3 hours)–
EEX 6939

Concentration: (24 hours)
Special Education Program Core: (6 hours)
EEX 6025 or EEX 4011
EEX 6222

Concentration/Specialization Courses (18 hours)
EGI 5051   EGI 5325   EGI 6232   EGI 6936   EGI 6416
EGI 6943

Electives: (6 hours)
Comprehensive Examination

A Plan III option is currently not available.
For information contact the program.

A Graduate Certificate in Gifted Education is also available. More information on this certificate program can be obtained in the certificate area of the catalog at:

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
SPECIAL EDUCATION, MENTAL RETARDATION

Master of Arts (M.A.) in Special Education, Mental Retardation

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Program Name: Special Education, Mental Retardation
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Tanice Knopp
Other Contact: Dept. Student Advisor
Phone: 813-974-9452 or 813-974-9941
Fax: 813-974-5542
Email: Tknopp@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/sped/Masters Degree.html
Mailing Address:
University of South Florida
College of Education
Special Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Master’s Programs in the Department of Special Education prepare special education leaders for work in public and private schools and in state, federal, or community settings. Specific areas of education and training include behavior disorders, mental retardation, specific learning disabilities, and varying exceptionalities (exceptional student education.) The program 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, and are knowledgeable of theory, research, and skilled in the best practices of special education. Graduates of this program will have advanced clinical and pedagogical skills in working with children with disabilities and their families. The program is structured so students can maintain full-time employment while pursuing their degrees through non-traditional scheduling, including web-based and accelerated course delivery.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field-based practica. Students provide their own transportation to practicum and internship sites.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores
Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.0
3. CLAST/GKT (Plan II)
4. Proof of educational or professional experience
5. Proof of initial certification
6. Coursework is allowed in lieu of GPA or GRE requirement
7. Letters of recommendation

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS
All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.

**Plan I** - The M.A. program in special education is a 36-hour program, designed for students with an undergraduate degree in special education. A minimum core of 24 hours is taken in special education with field work and coursework required in certification areas.

This program is delivered through a number of formats. Evening and online courses are offered during the Fall, Spring and Summer semesters. Daytime courses are sometimes offered during the summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

**Program of Study:** 36 hour minimum

**Process Core:** (3 hours)
EDF 6481 Foundations of Educational Research

**Current Trends in Special Education:** (3 hours)
EEX 6939

**Concentration:** (27 hours minimum)
Special Education Program Core: (21 hours)
EEX 6025* EEX 6612 EEX 6222
EEX 6245 EEX 6732 EEX 5752

EEX 6248
* Not required, if equivalent course taken in undergraduate program.

Mental Retardation courses (6 hours)
EMR 6053 EEX 6943

**Electives:** (3-6 hours)
Elective coursework relevant to the student’s program of study are required and must be approved by the faculty advisor.

**Comprehensive Examination:** A project is required to fulfill the comprehensive examination requirement.

**Plan II** - This program is no longer offered. See the M.A.T. in Varying Exceptionalities (Exceptional Student Education-ESE) to earn a graduate degree and certification in ESE and ESOL.

**Plan III** - This option is also available for students who are not certified in special education. An interview is required for all students seeking admission to the Plan III Program. Check with the program coordinator for more information.

**COURSES**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
SPECIAL EDUCATION, MOTOR DISABILITIES

Master of Arts (M.A.) in Special Education, Motor Disabilities

<table>
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<th>DEGREE INFORMATION</th>
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<td>Master of Arts (M.A.)</td>
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<td>Special Education, Motor Disabilities</td>
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<td>Masters</td>
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Inactive. Currently, no students are being admitted to this program.
SPECIAL EDUCATION, SPECIFIC LEARNING DISABILITIES

Master of Arts (M.A.) in Special Education, Specific Learning Disabilities

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)

Program Name: Special Education, Specific Learning Disabilities

Program Status: Active

Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Tanice Knopp
Other Contact: Dept. Student Advisor
Phone: 813-974-9452 or 813-974-9941
Fax: 813-974-5542
Email: Tknopp@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/sped/MastersDegree.html

Mailing Address:
University of South Florida
College of Education
Special Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Master’s Program in Special Education prepares special education teacher leaders for work in public and private schools and in state, federal, or community settings. Specific areas of education and training include behavior disorders, mental retardation, specific learning disabilities, and varying exceptionalities (exceptional student education.) The program 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, and are knowledgeable of theory, research, and skilled in the best practices of special education. Graduates of this program will have advanced clinical and pedagogical skills in working with children with disabilities and their families. The program is structured so students can maintain full-time employment while pursuing their degrees through non-traditional scheduling, including web-based and accelerated course delivery.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field-based practica. Students provide their own transportation to practicum and internship sites.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required
2. Minimum GPA of 3.0
3. CLAST/GKT (Plan II)
4. Proof of educational or professional experience
5. Proof of initial certification
6. Coursework is allowed in lieu of GPA or GRE requirement
7. Letters of recommendation

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.
Plan I - The M.A. program in special education is a 36-hour program, designed for students with an undergraduate degree in special education. A minimum core of 24 hours is taken in special education with field work and coursework required in certification areas.

This program is delivered through a number of formats. Evening and online courses are offered during the Fall, Spring and Summer semesters. Daytime courses are sometimes offered during the summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study: 36 hour minimum

Process Core: (3 hours)
EDF 6481 Foundations of Educational Research

Current Trends in Special Education: (3 hours)
EEX 6939

Concentration: (27 hours minimum)
Special Education Program Core: (21 hours)
EEX 6025* EEX 6612 EEX 6222
EEX 6245 EEX 6732 EEX 5752
EEX 6248
* Not required, if equivalent course taken in undergraduate program.

Specific Learning Disorders COURSES (6 hours)
ELD 6015 EEX 6943

Electives: (3-6 hours)
Elective coursework relevant to the student’s program of study are required and must be approved by the faculty advisor.

Comprehensive Examination: A project is required to fulfill the comprehensive examination requirement.

Plan II - This program is no longer offered. See the M.A.T. in Varying Exceptionalities (Exceptional Student Education-ESE) to earn a graduate degree and certification in ESE and ESOL.

Plan III – This option is also available for students who are not certified in special education. An interview is required for all students seeking admission to the Plan III Program. Contact Student Advisor to schedule.

COURSES
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
SPECIAL EDUCATION, VARYING EXCEPTIONALITIES (ESE)

Master of Arts (M.A.) in Special Education, Varying Exceptionalities

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Program Name: Special Education, Varying Exceptionalities
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Tanice Knopp
Other Contact: Dept. Student Advisor
Phone: 813-974-9452 or 813-974-9941
Fax: 813-974-5542
Email: Tknopp@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/sped/Masters Degree.html
Mailing Address:
University of South Florida
College of Education
Special Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Master’s Program in Special Education prepares special education teacher leaders for work in public and private schools and in state, federal, or community settings. Specific areas of education and training include behavior disorders, mental retardation, specific learning disabilities, and varying exceptionalities (exceptional student education.) The program 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, and are knowledgeable of theory, research, and skilled in the best practices of special education. Graduates of this program will have advanced clinical and pedagogical skills in working with children with disabilities and their families. The program is structured so that students can maintain full-time employment while pursuing their degrees through non-traditional scheduling, including web-based and accelerated course delivery.

After admission to a program, the candidate and the department advisor together chart a program of study incorporating both core requirements and courses of specific interest to the student. All programs stress field-based practica. Students provide their own transportation to practicum and internship sites.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE Required
2. Minimum GPA of 3.0
3. CLAST/GKT (Plan II)
4. Proof of educational or professional experience
5. Proof of initial certification
6. Coursework is allowed in lieu of GPA or GRE requirement
7. Letters of recommendation

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.
Plan I - The M.A. program in special education is a 36-hour program, designed for students with an undergraduate degree in special education. A minimum core of 24 hours is taken in special education with field work and coursework required in certification areas. This program is delivered through a number of formats. Evening and online courses are offered during the Fall, Spring and Summer semesters. Daytime courses are sometimes offered during the summer. Students usually take one or two courses a semester and complete their program of study within two to four years. Students are required to take courses two of the three semesters each calendar year and they must complete their program of study within 7 years of their admission date.

Program of Study:

36 hour minimum

Process Core: (3 hours)
EDF 6481 Foundations of Educational Research

Current Trends in Special Education: (3 hours)
EEX 6939

Concentration: (27 hours minimum)
Special Education Program Core: (21 hours)
EEX 6025* EEX 6612 EEX 6222
EEX 6245 EEX 6732 EEX 5752
EEX 6248
* Not required, if equivalent course taken in undergraduate program.

Varying Exceptionalities courses (12 hours)
EED 6215 ELD 6015 EMR 6052
EEX 6943

Comprehensive Examination: A project is required to fulfill the comprehensive examination requirement.

Plan II - This program is no longer offered. See the M.A.T. in Varying Exceptionalities (Exceptional Student Education-ESE) to earn a graduate degree and certification in ESE and ESOL.

Plan III – This option is also available for students who are not certified in special education. An interview is required for all students seeking admission to the Plan III Program. Contact Student Advisor to schedule.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
SPECIAL EDUCATION, VARYING EXCEPTIONALITIES (ESE)

Master of Arts in Teaching (M.A.T.) in Special Education, Varying Exceptionalities

DEGREE INFORMATION

Degree Offered: Master of Arts in Teaching (M.A.T.)
Program Name: Special Education, Varying Exceptionalities
Concentration: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Coordinator: Karen Colucci
Other Contact: Betsy Doone
Phone: 813-974-1398 or 813-974-9929
Fax: 813-974-5542
Email: Colucci@tempest.coedu.usf.edu
Edoone@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/sped/MATprogram/html

Mailing Address:
University of South Florida
College of Education
Special Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The Master of Arts in Teaching/ESOL (M.A.T.) is a new graduate program in special education at the University of South Florida. This program will lead to an M.A.T. in Varying Exceptionalities (ESE)/ESOL and teacher certification. This program requires 36-48 credit hours. Although this program is specifically designed for employed out-of-field teachers in special education who do not hold a professional certificate in teaching, this program of studies can be adjusted to allow students who are certified in elementary and secondary education to participate in the program. Preference will be given to those students who do not hold a professional teaching certificate. Students will be admitted each semester and matriculate as members of a cohort. A new M.A.T. cohort is seated each June.

The special requirements for ESOL endorsement through infusion are as follows: Successful completion of (1) ESOL 1, 2, and 3, 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.

Students in the M.A.T. Program benefit from an Integrated Curriculum taught in six-hour blocks; on-site mentors who are master teachers within the district that provide one-on-one mentoring for each program participant; and accelerated delivery of course content which allows for completion of the degree in two summers and three academic semesters. The program also utilizes intensive summer and weekend course formats. All students are required to conduct research in their classrooms, investigating how they may use more effectively research-based interventions. This requires that students link theory and practice and encourages an inquiring approach to teaching.

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

ADMISSION INFORMATION
Program may have additional requirements; check before applying.

DEGREE PROGRAM REQUIREMENTS

EEX 6051 Creating Positive Learning Environments for Students with Disabilities (6)
RED 6510 The Reading Process in the Elementary School (3)
EDF 6122 Psychological Foundations of Education (3)
FLE 5430 Theory and Practice of Teaching English Language Learners (3)

EEX 6225 Developing Individualized Educational Programs for students with Disabilities (6)

MAE 4310 Teach Elementary Math (3)

EDG 6931 (EEX 6253) Implementing and Evaluating Programs for Students with Disabilities (6)

RED 6544 Remediation of Comprehension Problems (3)

EDF 6432 Foundations of Measurement (3)

FLE 5431 Second Language Acquisition and Literacy in Children and Adolescents (3)

EDG 6947 (EEX 6947) Internship and Classroom Research (6)

FLE 5432 Language Principles, Acquisition, and Assessment for Teaching English Language Learners (3)

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.

COURSES
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
**SPECIAL EDUCATION, BEHAVIOR DISORDERS**

Master of Education (M.Ed.) in **Curriculum and Instruction**
Concentration: **Special Education, Behavior Disorders**

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<tr>
<td></td>
<td>Tanice Knopp</td>
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<td>4202 E. Fowler Avenue EDU162</td>
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<td>Tampa FL 33620</td>
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*Inactive*. Currently, no students are being admitted to this program.
### SPECIAL EDUCATION, GIFTED

**Master of Education (M.Ed.) in Curriculum and Instruction**  
Concentration:  **Special Education, Gifted**

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<td><strong>Concentration:</strong> Special Education, Gifted</td>
<td>Phone: 813-974-7007 or 813-974-9941</td>
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| **Program Status:** Inactive  
This program is not currently accepting students. | Fax: 813-974-5274 |
| **Program Level:** Masters | Email: Shaunessy@coedu.usf.edu |

**Inactive.** Currently, no students are being admitted to this program.

- University of South Florida
- College of Education
- Special Education
- 4202 E. Fowler Avenue EDU162
- Tampa FL 33620
# SPECIAL EDUCATION, MENTAL RETARDATION

**Master of Education (M.Ed.) in Curriculum and Instruction**  
**Concentration:** Special Education, Mental Retardation

## DEGREE INFORMATION

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| Program Level: | Masters |

## CONTACT INFORMATION

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<td>Phone:</td>
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<tr>
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## Mailing Address:

University of South Florida  
College of Education  
Special Education  
4202 E. Fowler Avenue EDU162  
Tampa FL 33620

*Inactive.* Currently, no students are being admitted to this program.
# SPECIAL EDUCATION, MOTOR DISABILITIES

Master of Education (M.Ed.) in Curriculum and Instruction  
Concentration: Special Education, Motor Disabilities

## DEGREE INFORMATION

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<td>Special Education, Motor Disabilities</td>
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</table>
| Program Status: | Inactive  
This program is not currently accepting students |
| Program Level: | Masters |

## CONTACT INFORMATION

| Program Coordinator: | Daphne Thomas |
| Other Contact:       | Dept. Student Advisor |
| Phone:               | 813-974-1383 or 813-974-9941 |
| Fax:                 | 813-974-5542 |
| Email:               | Dthomas@tempest.coedu.usf.edu |
| Web Address:         | http://www.coedu.usf.edu |

Mailing Address:  
University of South Florida  
College of Education  
Special Education  
4202 E. Fowler Avenue EDU162  
Tampa FL 33620

**Inactive.** Currently, no students are being admitted to this program.
SPECIAL EDUCATION, SPECIFIC LEARNING DISABILITIES

Master of Education (M.Ed.) in Curriculum and Instruction
Concentration: Special Education, Specific Learning Disabilities

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Inactive. Currently, no students are being admitted to this program.
**SPECIAL EDUCATION**

**Education Specialist (Ed.S.) in Curriculum and Instruction**

**Concentration:**  Special Education

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<td>Email: <a href="mailto:Dthomas@tempest.coedu.usf.edu">Dthomas@tempest.coedu.usf.edu</a></td>
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<td></td>
<td>Web Address: <a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
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**Inactive.** Currently, no students are being admitted to this program.
SPECIAL EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Special Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Program Name: Curriculum and Instruction
Concentration: Special Education
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: James Paul
Other Contact: Dept. Student Advisor
Phone: 813-974-4160 or 813-974-9941
Fax: 813-974-5542
Email: JPaul@tempest.coedu.usf.edu
Web Address: http://www.coedu.usf.edu/main/departments/sped/doctoralprogram.html
Mailing Address:
University of South Florida
College of Education
Special Education
4202 E. Fowler Avenue EDU162
Tampa FL 33620

PROGRAM INFORMATION

Program Description
The doctoral program in special education focuses on urban special education and university-school partnerships in preparing researchers, teacher educators, and school leaders. Graduates of the program will have knowledge of the research and philosophical foundations of special education policies and practices; an informed perspective on the ethical issues in the interactions of race, ethnicity, social class and gender with the nature and quality of special education policies, research, teacher education and services; 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 values 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.

After admission to a program, the student will be assigned a doctoral program advisor who will assist in identifying a major professor.

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

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores
Requirements for all applicants include:
1. GRE Required
2. Minimum GPA of 3.5 Masters
3. Proof of educational or professional experience
4. Letters of recommendation
5. Interview

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS
All Special Education programs are currently under review. Students are advised to work closely with program advisors in the department when developing their program of study.

COURSES: See http://www.ugs.usf.edu/sab/sabs.cfm
### SPECIAL EDUCATION

**Doctor of Education (Ed.D.) in Educational Program Development**  
**Concentration:** Administration of Special Education

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<th>DEGREE INFORMATION</th>
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<tr>
<td>Degree Offered: Doctor of Education (Ed.D.)</td>
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<tr>
<td>Program Name: Educational Program Development</td>
<td>Other Contact: Jim Paul</td>
</tr>
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<td>Phone: 813-974-4160</td>
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<td>Program Status: Inactive</td>
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<td>Program Level: Doctoral</td>
<td>Email: <a href="mailto:Jpaul@tempest.coedu.usf.edu">Jpaul@tempest.coedu.usf.edu</a></td>
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</tbody>
</table>

**Inactive.** Currently, no students are being admitted to this program.
STUDENT AFFAIRS ADMINISTRATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Student Affairs Administration

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy
Program Name: Curriculum and Instruction
Concentration: Student Affairs Administration
Program Status: Inactive
Program Level: Doctoral

CONTACT INFORMATION

Program Coordinator: Wilma Henry
Other Contact: Lorie Kittendorf
Phone: 813-974-9095
Fax: n/a
Email: n/a
Web Address: http://www.coedu.usf.edu

Mailing Address:
University of South Florida
College of Education
College Student Affairs Program
4202 E. Fowler Avenue EDU162
Tampa FL 33620

Inactive. Currently, no students are being admitted to this program.
## THEATRE EDUCATION

Master of Education (M.Ed.) in Curriculum and Instruction  
Concentration: Theatre Education

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<td>Tampa FL 33620</td>
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**Inactive.** Currently, no students are being admitted to this program.
VOCATIONAL EDUCATION

Education Specialist (Ed.S.) in Curriculum and Instruction
Concentration: Vocational Education

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<td><a href="mailto:blank@coedu.usf.edu">blank@coedu.usf.edu</a></td>
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<td><a href="http://www.coedu.usf.edu">http://www.coedu.usf.edu</a></td>
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Inactive. Currently, no students are being admitted to this program.
## VOCATIONAL EDUCATION

**Doctor of Philosophy (Ph.D.) in Curriculum and Instruction**  
**Concentration: Vocational Education**

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<tr>
<td><strong>Concentration:</strong> Vocational Education</td>
<td><strong>Phone:</strong> 813-974-0314</td>
</tr>
</tbody>
</table>
| **Program Status:** Inactive  
This program is not currently accepting students. | **Fax:** 813-974-3366 |
| **Program Level:** Doctoral | **Email:** blank@coedu.usf.edu |
| | **Web Address:** [http://www.coedu.usf.edu](http://www.coedu.usf.edu) |
| | **Mailing Address:**  
University of South Florida  
College of Education  
4202 E. Fowler Avenue EDU162  
Tampa FL 33620 |

*Inactive. Currently, no students are being admitted to this program.*
### VOCATIONAL EDUCATION

**Doctor of Education (Ed.D.) in** Educational Program Development  
**Concentration:** Vocational Education

#### DEGREE INFORMATION
- **Degree Offered:** Doctor of Education (Ed.D.)
- **Program Name:** Educational Program Development
- **Concentration:** Vocational Education
- **Program Status:** *Inactive*  
  This program is not currently accepting students.
- **Program Level:** Doctoral

#### CONTACT INFORMATION
- **Program Coordinator:** Bill Blank  
  - **Other Contact:** n/a  
  - **Phone:** 813-974-0314  
  - **Fax:** 813-974-3366  
  - **Email:** blank@coedu.usf.edu  
  - **Web Address:** [http://www.coedu.usf.edu](http://www.coedu.usf.edu)

**Mailing Address:**  
University of South Florida  
College of Education  
4202 E. Fowler Avenue EDU162  
Tampa FL 33620

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*Inactive.* Currently, no students are being admitted to this program.
Section 17

College of Education at USF-St. Petersburg

University of South Florida
St. Petersburg - College of Education
140 Seventh Avenue South
St. Petersburg, FL 33701

Web address:  http://www.stpt.usf.edu/coe/index.htm

Phone: 727-553-4155
Fax: 727-553-4191
Email: www@stpt.usf.edu

College Dean:  Vivian Fueyo
Associate Dean:  Stephen Micklo
Graduate Coordinator:  n/a

Accreditation:
Commission on Colleges, Southern Association of Colleges and Schools, National Council for Accreditation of Teacher Education.

Mission Statement:
The USF St. Petersburg College of Education embraces the dual mission of supporting the schools of today and aiding in the creation of the schools of tomorrow; creates and extends knowledge by supporting research and the pursuit of scholarship; seeks to prepare exemplary teachers and other personnel for roles in a diverse and changing society; promotes life long learning; is committed to stewardship that reflects the ethics of community responsibility; and continually strives to meet educational needs of all learners.

Major Research Areas:
Teacher Education

Types of Degrees Offered:
Master of Arts (M.A.)

Name of Programs Offered:
Elementary Education

Concentrations:
Science and Mathematics

Graduate Certificates Offered:
Reading

COLLEGE REQUIREMENTS
Contact college for information.
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

[Diagram showing Adult Education: Master of Arts (M.A.)]

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Adult Education
Concentration: n/a

EXAMPLE OF CONCENTRATION PAGE

[Diagram showing Adult Education: Doctor of Philosophy (Ph.D.) in Curriculum and Instruction]

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
ELEMENTARY EDUCATION AT USF-ST. PETERSBURG

Master of Arts (M.A.)
Concentration: Science and Mathematics

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Program Name: Elementary Education
Concentration: Science and Mathematics
Program Status: This concentration is only offered on at the University of South Florida, St. Petersburg Campus. Contact the USF, St. Petersburg Campus for information.

CONTACT INFORMATION

Program Coordinator: Stephen Micklo
Other Contact: Phone: 727-553-4149
Fax: n/a
Email: n/a
Web Address: www.coedu.usf.edu/main/
Mailing Address: University of South Florida, St. Petersburg College of Education 140 Seventh Avenue South St. Petersburg, FL 33701

PROGRAM INFORMATION

For information, contact the USF, St. Petersburg Campus.

Accreditation: Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS)

ADMISSION INFORMATION

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:
1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores
Requirements for all applicants include:
1. GRE required if GPA is less than 3.0
2. Minimum GPA of 2.5
3. Proof of educational or professional experience
4. Proof of initial certification

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

Contact program for information.
Section 18
College of Engineering

Mission Statement:
The mission of the USF College of Engineering is to continuously aspire to excellence in teaching, research and public service. The College values academic excellence, professionalism, ethics, and cultural diversity among its students, staff, and faculty. The College is committed to addressing the needs of our constituencies and gives careful consideration to the urban and suburban populations in our immediate service area. At the graduate level, students working in close collaboration with faculty, pursue advanced topics within their disciplines that will result in advancements in their professions and society at large. Utilizing the expertise of its individual and collective faculty, the College is dedicated to the development of new fundamental knowledge, processes or procedures through research, 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 liaison with industry and government to provide students and faculty with the skills and perspectives needed to ensure effective technological leadership.

Major Research Areas:
Contact the College for information.

Types of Degrees Offered:
Master of Chemical Engineering (M.C.H.E.)
Master of Civil Engineering (M.C.E.)
Master of Computer Engineering (M.C.P.)
Master of Computer Science (M.C.S.)
Master of Electrical Engineering (M.E.E.) -- (Currently not accepting students)
Master of Engineering (M.E.)
Master of Environmental Engineering (M.E.E.)
Master of Industrial Engineering (M.I.E.)
Master of Mechanical Engineering (M.M.E.), Master of Science in Biomedical Engineering (M.S.B.E.)
Master of Science in Chemical Engineering (M.S.C.H.)
Master of Science in Civil Engineering (M.C.E.), Master of Science in Computer Engineering (M.S.C.P.)
Master of Science in Computer Science (M.S.C.S.)
Master of Science in Electrical Engineering (M.S.E.E.)
Master of Science in Engineering (M.S.E.)
Master of Science in Engineering Management (M.S.E.M.)
Master of Science in Engineering Science (M.S.E.S.)
Master of Science in Environmental Engineering (M.S.E.V.)
Master of Science in Industrial Engineering (M.S.I.E.)
Master of Science in Mechanical Engineering (M.S.M.E.)
Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Master of Chemical Engineering (M.C.H.E.)
Chemical Engineering

Master of Civil Engineering (M.C.E.)
Civil Engineering

Master of Computer Engineering (M.C.P.)
Computer Engineering

Master of Computer Science (M.C.S)
Computer Science

Master of Electrical Engineering (M.E.E)
Electrical Engineering (Not accepting students)

Master of Engineering (M.E.)
Chemical Engineering
Civil Engineering
Computer Engineering
Computer Science
Electrical Engineering (Not accepting students)
Environmental Engineering
Mechanical Engineering

Master of Environmental Engineering (M.E.V.E.)
Environmental Engineering

Master of Industrial Engineering (M.I.E.)
Industrial Engineering

Master of Mechanical Engineering (M.M.E.)
Mechanical Engineering

Master of Science in Biomedical Engineering (M.S.B.E.)
Biomedical Engineering

Master of Science in Chemical Engineering (M.S.C.H.)
Chemical Engineering

Master of Science in Civil Engineering (M.S.C.E.)
Civil Engineering

Master of Science in Computer Engineering (M.S.C.P.)
Computer Engineering

Master of Science in Computer Science (M.S.C.S.)
Computer Science

Master of Science in Electrical Engineering (M.S.E.E.)
Electrical Engineering

Master of Science in Engineering Management (M.S.E.M.)
Engineering Management

Master of Science in Engineering Science (M.S.E.S.)
Engineering Science

Master of Science in Environmental Engineering (M.S.E.V.)
Environmental Engineering

Master of Science in Industrial Engineering (M.S.I.E.)
Industrial Engineering

Master of Science in Mechanical Engineering (M.S.M.E.)
Mechanical Engineering

Doctor of Philosophy (Ph.D.)
Biomedical Engineering
Chemical Engineering
Civil Engineering
Computer Science and Engineering
Electrical Engineering
Engineering Science
Industrial Engineering
Mechanical Engineering

Concentrations:
Manufacturing Option
Biomedical and Biotechnology
Circuits, Controls, and Systems
Communications and Signal Processing
Digital Architecture & Design
Electric Power Systems
Engineering Management
Graduate Certificates Offered: See Graduate Certificates

COLLEGE REQUIREMENTS

General Program Requirements
The requirements for graduate degrees from the College of Engineering consist of University requirements, College requirements, and Program requirements. For University requirements refer to the Graduate School Policies and Procedures. College requirements are listed below. Refer to the degree program 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 programs 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 programs offer this degree in two options: (1) thesis option (30 credits), and (2) non-thesis option (33 credits).

Master of Science in Engineering Science - This program is designed to meet the needs who wish to pursue an interdisciplinary course of study and research. This degree is individually tailored to student needs. Some programs offer this degree in two options: (1) thesis option (30 credits), and (2) non-thesis option (33 credits).

Master of Science in Engineering - This degree is normally awarded to a Master’s graduate who has a Bachelor’s degree from a non-engineering program and has completed a prescribed series of undergraduate engineering courses. Some programs offer this degree in two options: (1) thesis option (30 credits), and (2) non-thesis option (33 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 program or a project program.

Master of Engineering - This degree is normally awarded to a Master’s graduate who has a Bachelor’s degree from a non-engineering program and has completed a prescribed series of undergraduate engineering courses.

Manufacturing Option - In addition, the departments of Chemical Engineering, Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, and Industrial Engineering offer a Master of Science in Engineering with a Manufacturing Systems Option (consisting of an 18 hour core and 18 hours of electives). The degree is administered by the Industrial Engineering Department and is a true interdisciplinary degree with areas of Robotics, Automation, Computer Aided Design, Computer Integrated Manufacturing, Control Systems, Software Systems, Hardware Systems, and Production Systems available for emphasis. The student, upon completion of the core courses, may choose electives and concentrate within one of the above departments or may choose to acquire an in-depth knowledge in one of the above emphasis areas by making elective course choices from several departments.

College of Engineering Requirements for Master’s Degree
1. A thesis program 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 program to all coursework program, no thesis hours may be transferred, converted or counted toward the degree.)

2. Non-thesis program requirements vary according to department but must contain a minimum of 33 credits of approved coursework.

3. Students must maintain an overall grade point average of 3.0. No grade below “C” will be accepted in a graduate program. If a student’s average falls below 3.0, the
student will be placed on probation and must obtain a directed program from the appropriate advisor, and approval by the Engineering Associate Dean for Academic Affairs, prior to continuing coursework for a degree.

4. All students are required 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.

Five-Year Programs Leading to Bachelor and Master’s Degrees
Students who, at the end of the junior year, clearly are interested in graduate study are invited to pursue a five-year program leading simultaneously to the Bachelor of Science in Engineering or Engineering Science and Master degrees. This program offers the opportunity to take graduate courses during the fourth year and deferring senior courses to the fifth year. Students in the Five-Year Program may apply 6 credit hours of coursework, which must be approved by the Graduate Program Coordinator, to count both degrees.

Students apply for admission to this program through their advisors, who should be consulted regarding additional requirements. Several factors, which vary by academic department, are considered for admission. However, all applicants must have a GPA of at least 3.3.

Doctoral Degree Programs
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 program in one of the following Engineering disciplines: Chemical Engineering, Civil Engineering, Computer Science and Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering. Students receiving this degree must demonstrate a thorough foundation in the designated discipline.

Doctor of Philosophy in Engineering Science - This program is designed to meet the needs of students who wish to pursue doctoral studies in interdisciplinary areas closely related to engineering.

College of Engineering Requirements for Doctoral Degrees

1. Supervisory Committee. An advisor will be appointed by the chair of the appropriate department or program 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 60 hours of coursework beyond the baccalaureate degree plus a minimum of 20 hours of dissertation research is required. Total hours of credit must equal or exceed 90 hours. A minimum of 27 hours coursework in an engineering area of concentration is required. The 27 hours need not be coursework in the same department, but must focus directly upon the areas of concentration; at least 20 hours must be at the 6000 level. In addition, a minimum of 8 hours of mathematics or statistics is required. Engineering Mathematics may be approved by the committee if appropriate. Also, a minimum of 8 hours of coursework as defined by the committee outside the
major area of concentration is required. Further requirements may be imposed by the candidate’s committee.

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. Diagnostic Examination. All prospective candidates must pass a Ph.D. diagnostic examination that includes an area of mathematics and a prescribed area of concentration. This examination must be taken after the student has completed appropriate studies, usually equivalent to one year’s coursework. Students entering with a Master’s degree must take this examination before the end of the first year after admission to the program.

5. 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. Completion of this examination and the tools of research admits the student to candidacy.

6. Admission to Candidacy. Students must be admitted to candidacy before they register for dissertation. Before admission to candidacy, students must have: a) passed the diagnostic examination of paragraph 4; b) passed the qualifying examination of paragraph 5; c) demonstrated proficiency in written and spoken English; d) satisfied the Tools of Research requirement; e) been accepted by a department faculty member credentialed to serve as chair of the dissertation committee. It is the responsibility of the Ph.D. committee for each doctoral student to define the tools of research requirement. Once admitted to candidacy students must enroll for a minimum of 2 credit hours each semester of the academic year until completion of program.

7. 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 program, the candidate must prepare a written dissertation covering the research. Students in the Ph.D. program 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 Graduate School general rules.

8. Residency. Minimum residency requirements may be satisfied by completing at the University of South Florida, beyond the Master’s degree or equivalent, the following: (1) the University’s minimal requirement, or (2) 24 hours in one calendar year, or (3) 30 hours in no more than four semesters within a period of three calendar years. 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.
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

ELECTRICAL ENGINEERING
Master of Electrical Engineering (M.E.E.)

DEGREE INFORMATION
Degree Offered: Master of Electrical Engineering - M.E.E.
Degree Program: Electrical Engineering
Concentration: n/a

EXAMPLE OF CONCENTRATION PAGE

ADULT EDUCATION
Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Adult Education

DEGREE INFORMATION
Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
BIOMEDICAL ENGINEERING

Master of Science in Biomedical Engineering (M.S.B.E.)

DEGREE INFORMATION

Degree Offered: Master of Science in Biomedical Engineering - M.S.B.E.
Degree Program: Biomedical Engineering
Concentrations: N/A
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: William Lee
Other Contact: n/a
Phone: 813-974-3651
Fax: n/a
Email: lee@eng.usf.edu
Web Address: http://che.eng.usf.edu/BioMed/index.html
Mailing Address:
University of South Florida
Chemical Engineering
Biomedical Engineering Program
4202 E. Fowler Avenue, ENB 118
Tampa, FL 33620

PROGRAM INFORMATION

Biomedical Engineering is a highly interdisciplinary program that combines engineering and the medical sciences. The student works with an advisor to develop a graduate program that draws on courses from engineering, medicine, public health, and the life sciences. Current active areas of research include: biomechanics, biomaterials, medical imaging, tissue engineering, sensors, telehealth, cellular-level drug delivery, and rehabilitation engineering. Participating institutions include the James Haley Veterans Administration Hospital, Shriners Orthopedic Hospital for Children, Florida Orthopedics Institute, and Tampa General Hospital. Dr. William Lee (lee@eng.usf.edu) is the Program Director

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

ADMISSION INFORMATION

Program Admission Requirements
1. Minimum GRE, Quantitative >620; Analytical written score of 4 or >;
2. An undergraduate Bachelor’s degree or equivalent in Engineering or Science;
3. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
4. 3 letters of reference;
5. statement of research interests.

Program Admission Deadlines
Same as general University requirement

DEGREE PROGRAM REQUIREMENTS

The thesis option consists of 30 hours of coursework, including 6 hours of thesis. Students with non-engineering undergraduate degrees can apply; remedial courses may be required that will not count towards the degree.

Currently there are three required classes:
GMS 6xxx – Anatomy and Physiology for Engineers 3
BME 6xxx – Foundations of Biomedical Engineering 3
PHC 6051– Biostatistics II 3
BME 5740 Theory and Design of Bioprocesses 3
BME 5742 Pharmaceutical Engineering 2
BME 5746 Introduction to Biomedical Engineering 3
BME 5748 Selected Topics in Biomedical Engineering 1-3
BME 5910 Directed Research in Bioengineering 1-3

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
BIOMETRICAL ENGINEERING

Master of Science in Engineering Science (M.S.E.S.)

DEGREE INFORMATION

Degree Offered: Master of Science in Engineering Science - M.S.E.S.
Degree Program: Biomedical Engineering
Concentrations: N/A
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: William Lee
Other Contact: n/a
Phone: 813-974-3651
Fax: n/a
Email: lee@eng.usf.edu
Web Address: http://che.eng.usf.edu/BioMed/index.html
Mailing Address: University of South Florida Chemical Engineering Biomedical Engineering Program 4202 E. Fowler Avenue, ENB 118 Tampa, FL 33620

PROGRAM INFORMATION

Biomedical Engineering is a highly interdisciplinary program that combines engineering and the medical sciences. The student works with an advisor to develop a graduate program that draws on courses from engineering, medicine, public health, and the life sciences. Current active areas of research include: biomechanics, biomaterials, medical imaging, tissue engineering, sensors, telehealth, cellular-level drug delivery, and rehabilitation engineering. Participating institutions include the James Haley Veterans Administration Hospital, Shriners Orthopedic Hospital for Children, Florida Orthopaedics Institute, and Tampa General Hospital. Dr. William Lee (Lee@eng.usf.edu) is the Program Director

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

ADMISSION INFORMATION

Program Admission Requirements
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Same as general University requirement

DEGREE PROGRAM REQUIREMENTS

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GMS 6xxx – Anatomy and Physiology for Engineers 3
BME 6xxx – Foundations of Biomedical Engineering 3
PHC 6051 – Biostatistics II 3
BME 5740 Theory and Design of Bioprocesses 3
BME 5742 Pharmaceutical Engineering 2
BME 5746 Introduction to Biomedical Engineering 3
BME 5748 Selected Topics in Biomedical Engineering 1-3
BME 5910 Directed Research in Bioengineering 1-3

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
BIOMEDICAL ENGINEERING

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Biomedical Engineering
Concentrations: N/A
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: William Lee, III
Other Contact: n/a
Phone: 813-974-2136
Fax: 813-974-4651
Email: lee@eng.usf.edu
Web Address: http://che.eng.usf.edu/BioMed

PROGRAM INFORMATION

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. The doctoral program 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, the Shriner’s Orthopedic Hospital and the James Haley Veterans Administration Hospital.

Students in the program may choose to concentrate in one of four nationally recognized areas of Biomedical Engineering strength at USF.

* Medical Imaging
* Rehabilitation Engineering
* Biomechanics and Biomaterials
* Cardiovascular Engineering

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 program 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 through the development, dissemination, and commercialization of new biomedical technologies.

Overall, the program strives to develop and promote technologies and processes that will lead to better health care and improved quality of life for citizens of the State of Florida and beyond.

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

ADMISSION INFORMATION

Program Admission Requirements
Successful applicants to the Ph.D. degree program in biomedical engineering will typically have presented the following preferred qualifications:
1. GRE scores (V and Q) > 75 %tile and an AW > 4.0.
2. An undergraduate GPA of >3.5 (out of a possible 4.0) based on official transcripts.
3. Completion of a Master's degree in biomedical engineering or a related field including a Master's thesis.
4. Evidence of sustained interest in Biomedical Engineering including a statement of research interest
5. Engineering including a statement of research interest

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 can greatly strengthen an application.
Program Admission Deadlines
Please visit http://che.eng.usf.edu/BioMed for complete application information including deadlines.

DEGREE PROGRAM REQUIREMENTS

1) Core Courses:
A minimum of 22 credits including:
- BME Fundamentals
- Anatomy and Physiology for BME
- Biostatistics II
Plus one additional approved course in Biostatistics and two approved courses in the Medical Sciences.

2) Specialization Courses:
A minimum of 18 credit hours selected from one of the four areas of specialization:
- Medical Imaging
- Rehabilitation Engineering
- Biomechanics and Biomaterials
- Cardiovascular Engineering
Courses completed as part of a Master’s degree may be used to partially meet the above course requirements.

3) Dissertation:
A minimum of 50 credits of dissertation research are required. As with other engineering Ph.D. degrees, evidence of the significance of the conducted research is provided by publication in appropriate refereed journals.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION:
Graduate Assistantships and Fellowships
A limited number of financially competitive teaching and research graduate assistantships will be offered to incoming students. The College of Engineering is also home to several national graduate student support programs including NSF sponsored IGERT, GK-12 and Bridge to the Doctorate programs, the latter particularly emphasizing support for underrepresented minorities. 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 and the Shriner’s Hospital. In addition, particularly outstanding applicants will be nominated for university fellowships including Presidential Fellowships which provide stipends of $20 K per year plus tuition, fees and Health Insurance renewable for five years.

Results
Doctoral graduates of this program 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 and instrumentation, graduates have also been directly involved in technology transfer including the establishment of new Biomedical Engineering related businesses.

Graduate Certificates
As a valuable complement to doctoral training in Biomedical Engineering, students are encouraged to also consider earning a graduate certificate particularly in the areas of:
Clinical Epidemiology
Entrepreneurship
Health Management and Leadership
Infection Control
Materials Science & Engineering
Regulatory Affairs
Rehabilitation Engineering
Technology Management
# CHEMICAL ENGINEERING

**Master of Chemical Engineering (M.Ch.E)**

## DEGREE INFORMATION

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<tr>
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## CONTACT INFORMATION

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<td>Other Contact:</td>
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<tr>
<td>Fax:</td>
<td>813-974-3651</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:wolan@eng.usf.edu">wolan@eng.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://che.eng.usf.edu/">http://che.eng.usf.edu/</a></td>
</tr>
<tr>
<td>Mailing Address:</td>
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<td>Chemical Engineering Program</td>
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<tr>
<td></td>
<td>4202 E. Fowler Avenue, ENB118</td>
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<td>Tampa, FL 33620</td>
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## PROGRAM INFORMATION

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

- **Major Research Areas:** The Chemical 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 makes most programs 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 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

**Program Admission Requirements**

1. Minimum GRE, Quantitative >620; Analytical written score of 4 or >;
2. An undergraduate Bachelor’s degree or equivalent in Engineering or Science;
3. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
4. 3 letters of reference;
5. Statement of research interests.

**Program Admission Deadlines**

Same as general University requirement

## DEGREE PROGRAM REQUIREMENTS

Contract Program for Information

**COURSES**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
CHEMICAL ENGINEERING

Master of Engineering (M.E.)

DEGREE INFORMATION

Degree Offered: Master of Engineering (M.E.)
Degree Program: Chemical Engineering
Concentrations: Biomedical and Biototechnology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: John Wolan
Other Contact: n/a
Phone: 813-974-3997
Fax: 813-974-3651
Email: wolan@eng.usf.edu
Web Address: http://che.eng.usf.edu/
Mailing Address:
University of South Florida
Chemical Engineering
Chemical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

This degree is normally awarded to a Master's graduate who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

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

Major Research Areas:
The Chemical 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 makes most programs in Chemical engineering truly interdisciplinary.

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ADMISSION INFORMATION

Program Admission Requirements
1. Minimum GRE, Quantitative >620; Analytical written score of 4 or >;
2. An undergraduate Bachelor’s degree or equivalent in Engineering or Science;
3. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
4. 3 letters of reference;
5. statement of research interests.

DEGREE PROGRAM REQUIREMENTS
Contact Program for information.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
CHEMICAL ENGINEERING

Master of Science in Chemical Engineering (M.S.Ch.)

DEGREE INFORMATION

Degree Offered: Master of Science in Chemical Engineering (M.S.Ch.)
Degree Program: Chemical Engineering
Concentrations: Biomedical and Biotechnology
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: John Wolan
Other Contact: n/a
Phone: 813-974-3997
Fax: 813-974-3651
Email: wolan@eng.usf.edu
Web Address: http://che.eng.usf.edu/

Mailing Address:
University of South Florida
Chemical Engineering
Chemical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

This degree is normally awarded to a Master's graduate who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

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

Major Research Areas:
The Chemical 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 makes most programs in Chemical engineering truly interdisciplinary.

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Chemical 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

Program Admission Requirements
1. Minimum GRE, Quantitative >620; Analytical written score of 4 or >;
2. An undergraduate Bachelor’s degree or equivalent in Engineering or Science;
3. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
4. 3 letters of reference;
5. statement of research interests.

DEGREE PROGRAM REQUIREMENTS
Contact Program for information.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
CHEMICAL ENGINEERING

Master of Science in Engineering Science (M.S.E.S.)

DEGREE INFORMATION

Degree Offered: Master of Science in Engineering Science (M.S.E.S.)
Degree Program: Chemical Engineering
Concentrations: Biomedical and Biotechnology
Program Status: Active
Program Level: Masters

PROGRAM INFORMATION

This degree is normally awarded to a Master's graduate who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

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

Major Research Areas: The Chemical 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 makes most programs in Chemical engineering truly interdisciplinary.

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Chemical 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

Program Admission Requirements
1. Minimum GRE, Quantitative >620; Analytical written score of 4 or >;
2. An undergraduate Bachelor’s degree or equivalent in Engineering or Science;
3. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
4. 3 letters of reference;
5. statement of research interests.

DEGREE PROGRAM REQUIREMENTS
Contact Program for information.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
CHEMICAL ENGINEERING

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Chemical Engineering
Concentrations: Manufacturing, Biomedical and Biotechnology
Program Status: Active
Program Level: Doctoral

PROGRAM INFORMATION

Contact Program for Information

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

Major Research Areas:
The Chemical 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 makes most programs in Chemical engineering truly interdisciplinary.

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CONTACT INFORMATION

Program Director: John Wolan
Other Contact: n/a
Phone: 813-974-3997
Fax: 813-974-3651
Email: wolan@eng.usf.edu
Web Address: http://che.eng.usf.edu/

Mailing Address:
University of South Florida
Chemical Engineering
Chemical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

ADMISSION INFORMATION

Program Admission Requirements
1. Minimum GRE, Quantitative >620; Analytical written score of 4 or >;
2. An undergraduate Bachelor’s degree or equivalent in Engineering or Science;
3. TOEFL 550 (paper-based total) for international students or 213 (computer-based total);
4. Three letters of reference;

Program Admission Deadlines
Same as general University Requirement

DEGREE PROGRAM REQUIREMENTS

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
CIVIL ENGINEERING

Master of Civil Engineering (M.C.E.)

DEGREE INFORMATION

Degree Offered: Master of Civil Engineering (M.C.E.)
Degree Program: Civil Engineering
Concentrations: Geotechnical Engineering
             Interdisciplinary Transportation
             Materials Engineering and Science
             Structural Engineering
             Transportation Engineering
             Water Resources
Program Status: Active
Program Level: Masters

PROGRAM INFORMATION

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 has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.

College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also 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 such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

The M.C.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. The MCE degree is intended for students who have at least two years of civil engineering related work experience prior to completion of degree requirements. The work experience should include the preparation of engineering reports. The student's graduate advisor may require documentation of report writing ability before approving this degree. These degrees are recommended for part-time students who find it difficult to do thesis research because of their work commitment. Many of the department's graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree.

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

ADMISSION INFORMATION

Program Admissions Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE Verbal + Quantitative 1050; GRE Analytical (old) + Quantitative 1150; GRE Quantitative Score 650; GRE Analytical Score (old) 500; GRE Analytical Score (new) 3;
3. TOEFL (International applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-by-case basis where warranted.

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS

The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
CIVIL ENGINEERING

Master of Engineering (M.E.)

DEGREE INFORMATION

Degree Offered: Master of Engineering (M.E.)
Degree Program: Civil Engineering
Concentrations: Geotechnical Engineering, Interdisciplinary Transportation, Materials Engineering and Science, Structural Engineering, Transportation Engineering, Water Resources
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: n/a
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/
Mailing Address:
University of South Florida
Department of Civil and Environmental Engineering
Civil Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

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

ADMISSION INFORMATION

Program Admission Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE Verbal + Quantitative 1050; GRE Analytical (old) + Quantitative 1150; GRE Quantitative Score 650; GRE Analytical Score (old) 500; GRE Analytical Score (new) 3;
3. TOEFL (International applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-by-case basis where warranted.

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS

The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
CIVIL ENGINEERING

Master of Science in Civil Engineering (M.S.C.E.)

DEGREE INFORMATION

Degree Offered: Master of Science in Civil Engineering (M.S.C.E.)
Degree Program: Civil Engineering
Concentrations: Geotechnical Engineering, Interdisciplinary Transportation, Materials Engineering and Science, Structural Engineering, Transportation Engineering, Water Resources
Program Status: Active
Program Level: Masters

PROGRAM INFORMATION

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 has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.

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The MSCE 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 engineering. The purpose of the thesis is to instill in the student the ability to inspect, evaluate, and report on a subject of interest to the engineering profession.

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: n/a
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

Mailing Address:
University of South Florida
Department of Civil and Environmental Engineering
Civil Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

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

ADMISSION INFORMATION

Program Admission Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE Verbal + Quantitative 1050; GRE Analytical (old) + Quantitative 1150; GRE Quantitative Score 650; GRE Analytical Score (old) 500; GRE Analytical Score (new) 3;
3. TOEFL (International applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-by-case basis where warranted.

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS:
The programs consist of a minimum of 24 credit hours of coursework and 6 credit hours of thesis.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
CIVIL ENGINEERING

Master of Science in Engineering Science (M.S.E.S.)

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<td><strong>Program Director:</strong> Ram M. Pendyala</td>
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<td><strong>Concentrations:</strong> Geotechnical Engineering</td>
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<tr>
<td></td>
<td><strong>Mailing Address:</strong> University of South Florida, Department of Civil and Environmental Engineering, Civil Engineering Program, 4202 E. Fowler Avenue, ENB118, Tampa, FL 33620</td>
</tr>
</tbody>
</table>

**Program Status:** Active

**Program Level:** Masters

**PROGRAM INFORMATION**

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 has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation.

College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also 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 such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

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

**ADMISSION INFORMATION**

**Program Admission Requirements**

1. Overall GPA 2.75; GPA in major 3.00
2. GRE Verbal + Quantitative 1050; GRE Analytical (old) + Quantitative 1150; GRE Quantitative Score 650; GRE Analytical Score (old) 500; GRE Analytical Score (new) 3;
3. TOEFL (International applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-by-case basis where warranted.

**Program Admission Deadlines**

Same as general University Requirements

**DEGREE PROGRAM REQUIREMENTS**

Contact Program for information.

**COURSES**

See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
CIVIL ENGINEERING

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Civil Engineering
Concentrations: Geotechnical Engineering
Interdisciplinary Transportation
Materials Engineering and Science
Structural Engineering
Transportation Engineering
Water Resources
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: n/a
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/
Mailing Address:
University of South Florida
Department of Civil and Environmental Engineering
Civil Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

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College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also 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 such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

The Ph.D. degree is awarded in recognition of demonstrated scholarly competence and ability to conduct and report original and significant research. Ph.D. students may work in all of the areas of Civil Engineering: Engineering Mechanics, Environmental Engineering, Geotechnical Engineering, Pavement Engineering, Materials Engineering and Science, Structural Engineering, Transportation Engineering and Planning, and Water Resources Engineering.

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

ADMISSION INFORMATION

Program Admission Requirements
Contact Program for information.

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS

The program consists of a minimum of 60 credits of coursework beyond the bachelor's degree and 30 credits of dissertation/research.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
# COMPUTER ENGINEERING

## Master of Computer Engineering (M.C.P.)

### DEGREE INFORMATION

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<tr>
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<th>Master of Computer Engineering (M.C.P.)</th>
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<td>Degree Program:</td>
<td>Computer Engineering</td>
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### CONTACT INFORMATION

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<th>Program Director:</th>
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Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support graduate studies in artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, formal verification, and VLSI design and CAD.

### ADMISSION INFORMATION

#### Program Admission Requirements
1. Minimum score of 1200 on the GRE (must make at least 500 verbal)
2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate program
3. Minimum TOEFL score for international students is 550 (paper-based total) or 213 (computer-based total)
4. Three letters of recommendation
5. Statement of purpose
6. 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.

#### Program Admission Deadlines
Same as general University Requirement

### DEGREE PROGRAM REQUIREMENTS

Contact Computer Science and Engineering for information.

COURSES - See [http://www.ups.usf.edu/sah/sabs.cfm](http://www.ups.usf.edu/sah/sabs.cfm)
COMPUTER ENGINEERING

Master of Engineering (M.E.)

DEGREE INFORMATION

Degree Offered: Master of Engineering – (M.E.)
Degree Program: Computer Engineering
Concentrations: N/A
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Rafael Perez
Other Contact: Srinivas Katkoori, Graduate Admissions Coord.
Phone: 813-974-5737
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Web Address: http://www.cse.usf.edu/

Mailing Address:
University of South Florida
Department of Computer Science and Engineering
Computer Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL  33620

PROGRAM INFORMATION

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ADMISSION INFORMATION

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6. 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.

Program Admission Deadlines
Same as general University Requirement

DEGREE PROGRAM REQUIREMENTS
Contact Computer Science and Engineering for information

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm
COMPUTER ENGINEERING

Master of Science in Computer Engineering (M.S.C.P.)

DEGREE INFORMATION

Degree Offered: Master of Science in Computer Engineering - M.S.C.P.
Degree Program: Computer Engineering
Concentrations: N/A
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Rafael Perez
Other Contact: Srinivas Katkoori, Graduate Admissions Coord.
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Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools.

Major Research Areas:
An excellent selection of courses and laboratories support graduate studies in artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, formal verification, and VLSI design and CAD.

ADMISSION INFORMATION

Program Admission Requirements
1. Minimum score of 1200 on the GRE (must make at least 500 verbal)
2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate program
3. Minimum TOEFL score for international students is 550 (paper-based total) or 213 (computer-based total)
4. Three letters of recommendation
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Program Admission Deadlines
Same as general University Requirement

DEGREE PROGRAM REQUIREMENTS

Contact Computer Science and Engineering for information

COURSES - See http://www.ups.usf.edu/sab/sabs.cfm
# COMPUTER ENGINEERING

## Master of Science in Engineering Science (M.S.E.S.)

### DEGREE INFORMATION

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<th>Degree Offered</th>
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<td>Degree Program</td>
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### Major Research Areas

An excellent selection of courses and laboratories support graduate studies in artificial intelligence, coding theory, computer architecture, computer graphics, computer networks, computer vision, expert systems, fault-tolerant computing, human-computer interface, image processing, robotics, software engineering, formal verification, and VLSI design and CAD.

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#### Program Admission Deadlines

Same as general University Requirement

#### DEGREE PROGRAM REQUIREMENTS

Contact Computer Science and Engineering for information

### COURSES

See [http://www.ups.usf.edu/sab/sabs.cfm](http://www.ups.usf.edu/sab/sabs.cfm)
COMPUTER SCIENCE

Master of Science in Computer Science (M.S.C.S.)

DEGREE INFORMATION

Degree Offered: Master of Science in Computer Science - M.S.C.S.
Degree Program: Computer Science
Concentrations: N/A
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Rafael Perez
Other Contact: Srinivas Katkoori, Graduate Admissions Coord.
Phone: 813-974-5737
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Same as general University Requirement

DEGREE PROGRAM REQUIREMENTS
Contact Computer Science and Engineering for information

COURSES - See http://www.ups.usf.edu/sab/sabs.cfm
COMPUTER SCIENCE

Master of Engineering (M.E.)

DEGREE INFORMATION

Degree Offered: Master of Engineering (M.E.)
Degree Program: Computer Science
Concentrations: N/A
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

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Other Contact: Srinivas Katkoori, Graduate Admissions Coord.
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DEGREE PROGRAM REQUIREMENTS
Contact Computer Science and Engineering for information

COURSES - See http://www.ups.usf.edu/sab/sabs.cfm
COMPUTER SCIENCE

Master of Computer Science (M.C.S.)

DEGREE INFORMATION

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Program Admission Deadlines
Same as general University Requirement

DEGREE PROGRAM REQUIREMENTS
Contact Computer Science and Engineering for information

COURSES - See http://www.ups.usf.edu/sab/sabs.cfm
COMPUTER SCIENCE

Master of Science in Engineering Science (M.S.E.S.)

Degree Offered: Master of Science in Engineering Science - M.S.E.S.
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Concentrations: N/A
Program Status: Active
Program Level: Masters

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ADMISSION INFORMATION
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2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate program
3. Minimum TOEFL score for international students is 550 (paper-based total) or 213 (computer-based total)
4. Three letters of recommendation
5. Statement of purpose
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Program Admission Deadlines
Same as general University Requirement

DEGREE PROGRAM REQUIREMENTS
Contact Computer Science and Engineering for information

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm
COMPUTER SCIENCE AND ENGINEERING

Doctor of Philosophy (Ph.D.)

PROGRAM INFORMATION
The department offers opportunities for study and research in all areas fundamental to Computer Science and Engineering. In addition to the vast array of college-wide computer facilities, the Department has a 100Mbit local area network consisting of PC’s and Sun SPARC workstations, and multiple printers. The network provides connectivity to Internet 2. The department’s facilities also include a microprocessor laboratory, a hardware/architecture laboratory, and PC-compatible laboratory for instructional use.

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Major Research Areas:
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ADMISSION INFORMATION

Program Admission Requirements
1. Minimum score of 1200 in the verbal and quantitative portions of the GRE
2. Minimum grade point average (GPA) of 3.3 out of 4.0 for all coursework completed during the last two years of undergraduate study and thereafter.
3. Minimum TOEFL score for international students is 550 (paper-based total) or 213 (computer-based total)
4. Teaching assistant applicants whose native language is not English must take and pass the TSE (Test of Spoken English)
5. Three letters of recommendation
6. Statement of purpose

Program Admission Deadlines
Same as general University Requirement

DEGREE PROGRAM REQUIREMENTS
Contact Computer Science and Engineering for information

COURSES - See http://www.ups.usf.edu/sab/sabs.cfm
ELECTRICAL ENGINEERING

Master of Engineering (M.E.)

DEGREE INFORMATION

Degree Offered: Master of Engineering (M.E.)
Degree Program: Electrical Engineering
Concentrations: Circuits, Controls and Systems
Communications and Signal Processing
Digital Architecture and Design
Electric Power Systems
Microelectronics
Wireless Circuits and Systems

Also offered as: Dual M.S. Degree in Physics/Engineering; Joint degree with the Industrial Engineering (this permits simultaneous specialization in an Electrical Engineering discipline with an MSEM minor.)

Program Status: Inactive
Program Level: Masters

CONTACT INFORMATION

Program Director: Kenneth Buckle
Other Contact: n/a
Phone: 813-974-2369
Fax: n/a
Email: eegrad@eng.usf.edu
Web Address: http://ee.eng.usf.edu/elecgrad.html

Mailing Address:
University of South Florida
Electrical Engineering
Electrical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

Inactive. Currently, no students are being admitted to this program.
ELECTRICAL ENGINEERING

Master of Electrical Engineering (M.E.E.)

DEGREE INFORMATION

Degree Offered: Master of Electrical Engineering (M.E.E.)

Degree Program: Electrical Engineering

Concentrations: Circuits, Controls and Systems
Communications and Signal Processing
Digital Architecture and Design
Electric Power Systems
Microelectronics
Wireless Circuits and Systems

Also offered as: Dual M.S. Degree in Physics/Engineering; Joint degree with the Industrial Engineering (this permits simultaneous specialization in an Electrical Engineering discipline with an MSEM minor.)

Program Status: Active

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master’s level. The major areas of instruction in the department are as listed above. Occasionally projects in other areas such as modal analysis, computations, optimization, thermal management, or medical imaging are conducted.

The Department’s research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, noise and reliability, thin dielectric films, restructurable VLSI, communications and signal processing, and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore 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, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering. Master’s programs include options in the five major areas listed above. Other programs may be tailored for students with special interests. Non-thesis master’s studies, comprising 33 credit hours of course work without a thesis are possible.

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

ADMISSION INFORMATION

Same as general University Requirements.

DEGREE PROGRAM REQUIREMENTS

Please contact Electrical Engineering for information

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm
ELECTRICAL ENGINEERING

Master of Science in Electrical Engineering (M.S.E.E.)

DEGREE INFORMATION

Degree Offered: Master of Science Electrical Engineering (M.S.E.E.)

Degree Program: Electrical Engineering

Concentrations:
- Circuits, Controls and Systems
- Communications and Signal Processing
- Digital Architecture and Design
- Electric Power Systems
- Microelectronics
- Wireless Circuits and Systems

Also offered as: Dual M.S. Degree in Physics/Engineering; Joint degree with the Industrial Engineering (this permits simultaneous specialization in an Electrical Engineering discipline with an MSEM minor.)

Program Status: Active

Program Level: Masters

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master’s level. The major areas of instruction in the department are as listed above. Occasionally projects in other areas such as modal analysis, computations, optimization, thermal management, or medical imaging are conducted.

The Department’s research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, noise and reliability, thin dielectric films, restructurable VLSI, communications and signal processing, and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore 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, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering. Master’s programs include options in the five major areas listed above. Other programs may be tailored for students with special interests. Non-thesis master’s studies, comprising 33 credit hours of course work without a thesis are possible.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as general University Requirement.

Program Admission Deadlines
Same as general University Requirement.

DEGREE PROGRAM REQUIREMENTS

Please contact Electrical Engineering for information

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm
ELECTRICAL ENGINEERING

Master of Science in Engineering Science (M.S.E.S.)

DEGREE INFORMATION

Degree Offered: Master of Science in Engineering Science (M.S.E.S.)
Degree Program: Electrical Engineering
Concentrations:
- Circuits, Controls and Systems
- Communications and Signal Processing
- Digital Architecture and Design
- Electric Power Systems
- Microelectronics
- Wireless Circuits and Systems

Also offered as:
Dual M.S. Degree in Physics/Engineering;
Joint degree with the Industrial Engineering (this permits simultaneous specialization in an Electrical Engineering discipline with an MSEM minor.)

Program Status: Active
Program Level: Masters

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master’s level. The major areas of instruction in the department are as listed above. Occasionally projects in other areas such as modal analysis, computations, optimization, thermal management, or medical imaging are conducted.

The Department’s research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, noise and reliability, thin dielectric films, restructurable VLSI, communications and signal processing, and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore 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, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering. Master’s programs include options in the five major areas listed above. Other programs may be tailored for students with special interests. Non-thesis master’s studies, comprising 33 credit hours of course work without a thesis are possible.

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

ADMISSION INFORMATION
Same as general University Requirements.

DEGREE PROGRAM REQUIREMENTS
Please contact Electrical Engineering for information

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
ELECTRICAL ENGINEERING

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Electrical Engineering
Concentrations: Circuits, Controls and Systems*
                  Communications and Signal Processing
                  Digital Architecture and Design*
                  Electric Power Systems*
                  Microelectronics
                  Wireless Circuits and Systems*
                  *inactive

Please contact Electrical Engineering for a current list of active concentrations

Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Kenneth Buckle
Other Contact: n/a
Phone: 813-974-2369
Fax: n/a
Email: eegrad@eng.usf.edu
Web Address: http://ee.eng.usf.edu/elecgrad.html

Mailing Address:
University of South Florida
Electrical Engineering
Electrical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The Department of Electrical Engineering of the University of South Florida offers degrees at the Doctoral and Master’s level. The major areas of instruction in the department are as listed above. Occasionally projects in other areas such as modal analysis, computations, optimization, thermal management, or medical imaging are conducted.

The Department’s research efforts are supported by well-equipped laboratories in the areas of silicon processing, compound semiconductors, electro-optics, IC design, noise and reliability, thin dielectric films, restructurable VLSI, communications and signal processing, and micro/millimeter waves. Extensive computing facilities are also housed in Engineering Building II.

Current and previous Ph.D. dissertations explore 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, digital video and HDTV, ISDN, optical fiber communication, satellite communications, comm-software, comm-terminals, microprocessors and VLSI for signal processing); systems and controls; solid state material and device processing and characterization; electro-optics; electromagnetics, microwave and millimeter-wave engineering (antennas, devices, systems); CAD and microprocessors; and biomedical engineering.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as general University Requirement.

Program Admission Deadlines
Same as general University Requirement.

DEGREE PROGRAM REQUIREMENTS

Please contact Electrical Engineering for information

COURSES

See http://www.ups.usf.edu/sab/sabs.cfm
ENGINEERING

Master of Science in Engineering (M.S.E.)

DEGREE INFORMATION

Degree Offered: Master of Science in Engineering - M.S.E.
Degree Program: Engineering
Concentrations: Available in each department.
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Carlos A. Smith
Other Contact: n/a
Phone: 813-974-3782
Fax: 813-974-5094
Email: csmith@eng.usf.edu
Web Address: http://www2.eng.usf.edu/

Mailing Address:
University of South Florida
Engineering (Post-Baccalaureate)
Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

This degree is normally awarded to a student who has an undergraduate degree in engineering or who has completed a prescribed series of undergraduate engineering courses, and completes an all coursework program.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as general University Requirement.

Program Admission Deadlines
Same as general University Requirement.

DEGREE PROGRAM REQUIREMENTS

Each department in the College is authorized to offer this degree. Please check with the individual department for requirements.

COURSES

See http://www.ups.usf.edu/sab/sabs.cfm
# ENGINEERING MANAGEMENT

## Master of Science in Engineering Management (M.S.E.M.)

### DEGREE INFORMATION

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### CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Program Director:</th>
<th>Dolores Gooding</th>
</tr>
</thead>
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<tr>
<td>Other Contact:</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-2269</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-5953</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:ghanshaw@eng.usf.edu">ghanshaw@eng.usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://www.imse.eng.usf.edu">http://www.imse.eng.usf.edu</a></td>
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**Mailing Address:**
University of South Florida  
Industrial and Management Systems  
Engineering  
Engineering Management Program  
4202 E. Fowler Avenue, ENB118  
Tampa, FL 33620

### PROGRAM INFORMATION

This program is designed to prepare engineers from various disciplines to make the transition to technical management. Courses in the program involve concepts in engineering management, resource management, strategic planning, and productivity. They combine qualitative approaches with quantitative techniques. Courses are available on campus or the internet via the FEEDS system.

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

### ADMISSION INFORMATION

**Program Admission Requirements**
Same as general University Requirement.

**Program Admission Deadlines**
Same as general University Requirement.

### DEGREE PROGRAM REQUIREMENTS

A minimum of 33 credits of approved coursework beyond the bachelor level is required, 18 credits of core work and 15 credits of electives. A thesis option is available to M.S.E.M. students who are interested in applied research. Up to 6 hours of advanced courses in the student’s area of specialty may be taken as electives.

**COURSES**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
ENGINEERING MANAGEMENT

Master of Science in Engineering Science (M.S.E.S.)

DEGREE INFORMATION

Degree Offered: Master of Science in Engineering Science (M.S.E.S.)
Degree Program: Engineering Management
Concentrations: Contact Program Director.
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Dolores Gooding
Phone: 813-974-2269
Fax: 813-974-5953
Email: ghanshaw@eng.usf.edu
Web Address: http://www2.eng.usf.edu/

Mailing Address:
University of South Florida
Industrial and Management Systems
Engineering
Engineering Management Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

This program is designed to prepare engineers from various disciplines to make the transition to technical management. Courses in the program involve concepts in engineering management, resource management, strategic planning, and productivity. They combine qualitative approaches with quantitative techniques. Courses are available on campus or the internet via the FEEDS system.

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

ADMISSION INFORMATION

Program Admission Requirements
Same as general University Requirement.

Program Admission Deadlines
Same as general University Requirement.

DEGREE PROGRAM REQUIREMENTS

A minimum of 33 credits of approved coursework beyond the bachelor level is required, 18 credits of core work and 15 credits of electives. A thesis option is available to M.S.E.M. students who are interested in applied research. Up to 6 hours of advanced courses in the student’s area of specialty may be taken as electives.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
ENGINEERING SCIENCE

Master of Science in Engineering Science (M.S.E.S)

DEGREE INFORMATION

Degree Offered: Master of Science in Engineering Science (M.S.E.S)
Degree Program: Engineering Science
Concentrations: n/a
Also offered as: 5 year M.S.E.S. program - available in each department
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Carlos A. Smith
Other Contact: Phone: 813-974-3782
Fax: 813-974-5094
Email: csmith@eng.usf.edu
Web Address: http://www2.eng.usf.edu/
Mailing Address:
University of South Florida
Engineering Science
Engineering Science Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

This program is designed to meet the needs of students who wish to pursue studies in interdisciplinary engineering areas. A strong foundation in rigorous scientific and engineering principles and practice is expected. It is normally awarded for completion of a thesis program.

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

ADMISSION INFORMATION

Program Admission Requirements
Check the admission requirements of the host department; student’s min interest of study.

Program Admission Deadlines
Same as general University Requirement.

DEGREE PROGRAM REQUIREMENTS

Each department in the College is authorized to offer the Master of Science in Engineering Science and the Master of Science in Engineering. These degrees are individually tailored to student needs. Please check with the individual department for requirements.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
# ENGINEERING SCIENCE

## Doctor of Philosophy (Ph.D.)

### DEGREE INFORMATION

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<tr>
<td>Concentrations:</td>
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<td>Also offered as:</td>
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</tbody>
</table>

### CONTACT INFORMATION

| Program Director:     | Carlos A. Smith      |
| Other Contact:        |                      |
| Phone:                | 813-974-3782         |
| Fax:                  | 813-974-5094         |
| Email:                | csmith@eng.usf.edu   |
| Web Address:          | http://www2.eng.usf.edu/ |
| Mailing Address:      | University of South Florida Engineering Science Engineering Science Program 4202 E. Fowler Avenue, ENB118 Tampa, FL 33620 |

### PROGRAM INFORMATION

This program is designed to meet the needs of students who wish to pursue studies in interdisciplinary engineering areas. A strong foundation in rigorous scientific and engineering principles and practice is expected. It is normally awarded for completion of a thesis program.

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

### ADMISSION INFORMATION

**Program Admission Requirements**
Check the admission requirements of the host department; student’s min interest of study.

**Program Admission Deadlines**
Same as general University Requirement.

### DEGREE PROGRAM REQUIREMENTS

Each department in the College is authorized to offer the Master of Science in Engineering Science and the Master of Science in Engineering. These degrees are individually tailored to student needs. Please check with the individual department for requirements.

**COURSES**
See [http://www.ups.usf.edu/sab/sabs.cfm](http://www.ups.usf.edu/sab/sabs.cfm)
ENGINEERING SCIENCE / PHYSICS

Dual Degree (Joint degree) Program
Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science - M.S.
Degree Program: Physics/Engineering Science
Concentrations: n/a
Also offered as: Interdisciplinary - Ph.D. in Engineering Science
Program Status: Active
Program level: Masters

CONTACT INFORMATION

Program Director: Pritish Mukherjee
Other Contact: n/a
Phone: 813-974-2871
Fax: 813-974-5813
Email: pritish@chuma.cas.usf.edu
Web Address: http://www.cas.usf.edu/physics/
Mailing Address:
University of South Florida
Interdisciplinary (Physics and Engineering)
Dual Degree (Joint degree) Program
4202 E. Fowler Avenue, PHY114 and ENB118
Tampa, FL 33620

PROGRAM INFORMATION

Contact the program for information. Under an interdisciplinary arrangement with the College of Arts and Sciences and the College of Engineering, the physics graduate students may obtain a Ph.D. in Engineering under the dissertation direction of a Physics Director of Graduate Studies

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

ADMISSION INFORMATION

Program Admission Requirements
See listings for Physics and Engineering Science.

Program Admission Deadlines
See deadlines for Physics and for Engineering Science

DEGREE PROGRAM REQUIREMENTS
Contact the program for information.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
ENGINEERING SCIENCE / PHYSICS

Dual Degree (Joint degree) Program
Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Physics/Engineering Science
Concentrations: n/a
Program Status: Active
Program level: Doctoral

CONTACT INFORMATION

Program Director: Pritish Mukherjee
Other Contact: n/a
Phone: 813-974-2871
Fax: 813-974-5813
Email: pritish@chuma.cas.usf.edu
Web Address: http://www.cas.usf.edu/physics/

PROGRAM INFORMATION

Contact the program for information. Under an interdisciplinary arrangement with the College of Arts and Sciences and the College of Engineering, the physics graduate students may obtain a Ph.D in Engineering under the dissertation direction of a Physics Director of Graduate Studies.

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

ADMISSION INFORMATION

Program Admission Requirements
See listings for Physics and Engineering Science.

Program Admission Deadlines
See deadlines for Physics and for Engineering Science.

DEGREE PROGRAM REQUIREMENTS

Contact the program for information.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm
ENVIRONMENTAL ENGINEERING

Master of Engineering (M.E.)

DEGREE INFORMATION

Degree Offered: Master of Engineering (M.E.)
Degree Program: Environmental Engineering
Concentrations: /a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: Ram M. Pendyala
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department’s graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree.

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

Major Research Areas:
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 has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation. College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also 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 such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION

Program Admission Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE Verbal + Quantitative 1050; GRE Analytical (old) + Quantitative 1150; GRE Analytical (new) 3;
3. TOEFL (international applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-by-case basis where warranted.

Program Admission Deadlines
Same as general University Requirements.

DEGREE PROGRAM REQUIREMENTS

The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours.

COURSES:
See http://www.ups.usf.edu/sab/sabs.cfm
ENVIRONMENTAL ENGINEERING

Master of Environmental Engineering (M.E.V.E.)

DEGREE INFORMATION

Degree Offered: Master of Environmental Engineering (M.E.V.E.)
Degree Program: Environmental Engineering
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: Ram M. Pendyala
Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/

Mailing Address:
University of South Florida
Civil and Environmental Engineering
Environmental Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department’s graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree.

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

Major Research Areas:
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 has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation. College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also 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 such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION

Program Admission Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE Verbal + Quantitative 1050; GRE Analytical (old) + Quantitative 1150; GRE Analytical (new) 3;
3. TOEFL (international applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-bay-case basis where warranted.

Program Admission Deadlines
Same as general University Requirements.

DEGREE PROGRAM REQUIREMENTS:
The minimum coursework requirement for the Master of Engineering degrees is 33 credit hours.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
ENVIRONMENTAL ENGINEERING

Master of Science in Engineering Science (M.S.E.S.)

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<td>Science (M.S.E.S.)</td>
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<td>Degree Program:</td>
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<tr>
<td>Environmental</td>
<td>Email: <a href="mailto:pendyala@eng.usf.edu">pendyala@eng.usf.edu</a></td>
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PROGRAM INFORMATION
The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department’s graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree.

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

Major Research Areas:
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 has been included in the Civil Engineering domain. Graduates of the programs are prepared for careers with public agencies or private industry and firms involved in planning, design, research and development, or regulation. College computer facilities are available to all departmental students. In addition, the department has a variety of microcomputers available for student use. The department also 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 such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION
Program Admission Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE Verbal + Quantitative 1050; GRE Analytical (old) + Quantitative 1150; GRE Analytical (new) 3;
3. TOEFL (international applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-by-case basis where warranted.

Program Admission Deadlines
Same as general University Requirements.

DEGREE PROGRAM REQUIREMENTS:
The programs consist of a minimum of 24 credit hours of coursework and 6 credit hours of thesis.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
ENVIRONMENTAL ENGINEERING

Master of Science in Environmental Engineering (M.S.E.V.)

DEGREE INFORMATION

Degree Offered: Master of Science in Environmental Engineering (M.S.E.V.)
Degree Program: Environmental Engineering
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Ram M. Pendyala
Other Contact: Phone: 813-974-2275
Fax: 813-974-2957
Email: pendyala@eng.usf.edu
Web Address: http://ce.eng.usf.edu/
Mailing Address: University of South Florida
Civil and Environmental Engineering
Environmental Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The M.E. degree provides a student with the opportunity to earn the advanced degree by coursework only. Students in Environmental Engineering may receive either the M.E.V.E. degree or one of the other Master of Engineering degrees. Environmental Engineering students who do not opt to receive the M.E.V.E. degree will receive the MCE degree if they have an undergraduate degree in Civil Engineering or the ME degree if they do not. Many of the department’s graduate courses are offered on weekday evenings, which permits part-time and FEEDS (Florida Engineering Education Delivery System) students the opportunity to seek a graduate degree testing machine. There are also well-equipped environmental, soils, pavement and hydraulics laboratories. These laboratories include equipment such as an ion chromatograph, atomic absorption unit, environmental chamber, constant rate of stress consolidometer, triaxial units and superpave testing equipment.

ADMISSION INFORMATION

Program Admission Requirements
1. Overall GPA 2.75; GPA in major 3.00
2. GRE Verbal + Quantitative 1050; GRE Analytical (old) + Quantitative 1150; GRE Analytical (new) 3;
3. TOEFL (international applicants only) 550 or 213 (CBT).
4. Exceptions made on a case-bay-case basis where warranted.

Program Admission Deadlines
Same as general University Requirements.

DEGREE PROGRAM REQUIREMENTS:
The programs consist of a minimum of 24 credit hours of coursework and 6 credit hours of thesis.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
INDUSTRIAL ENGINEERING

Master of Engineering (M.E.)

DEGREE INFORMATION

Degree Offered: Master of Engineering (M.E.)
Degree Program: Industrial Engineering
Concentrations: Engineering Management, Quantitative Analysis
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Michael Weng
Other Contact: Phone: 813-974-2269
Fax: 813-974-5953
Email: jmse@eng.usf.edu
Web Address: http://imse.eng.usf.edu
Mailing Address:
University of South Florida
Industrial and Management Systems Engineering
Industrial Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The department participates in the college’s M.S.E., M.E. and M.S.E.S. programs. 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 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.

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

ADMISSION INFORMATION

Program Admission Requirements
1. An undergraduate degree in engineering with a 3.0/4.0 GPA; non engineering degrees will be required to take supplemental undergraduate courses
2. GRE minimum of 1100 (verbal + quantitative)
3. TOEFL for international students 213 (550 paper version)
4. Three letters of reference

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS

Contact the department for information. 33 approved credit hours, plus comprehensive exam.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
INDUSTRIAL ENGINEERING

Master of Industrial Engineering (M.I.E.)

DEGREE INFORMATION

Degree Offered: Master of Industrial Engineering (M.I.E.)
Degree Program: Industrial Engineering
Concentrations: Engineering Management
Quantitative Analysis
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Michael Weng
Other Contact: Phone: 813-974-2269
Fax: 813-974-5953
Email: jmse@eng.usf.edu
Web Address: http://imse.eng.usf.edu

Mailing Address:
University of South Florida
Industrial and Management Systems Engineering
Industrial Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The department participates in the college’s M.S.E., M.E. and M.S.E.S. programs. 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 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.

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

ADMISSION INFORMATION

Program Admission Requirements
1. An undergraduate degree in engineering with a 3.0/4.0 GPA; non engineering degrees will be required to take supplemental undergraduate courses
2. GRE minimum of 1100 (verbal + quantitative)
3. TOEFL for international students 213 (550 paper version)
4. Three letters of reference

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS
Contact the department for information. Total of 33 approved credit hours plus comprehensive exam.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
INDUSTRIAL ENGINEERING

Master of Science in Engineering Science (M.S.E.S.)

DEGREE INFORMATION

Degree Offered: Master of Science in Engineering Science (M.S.E.S.)
Degree Program: Industrial Engineering
Concentrations: Engineering Management, Quantitative Analysis
Program Status: Active
Program Level: Masters

PROGRAM INFORMATION

The department participates in the college’s M.S.E., M.E. and M.S.E.S. programs. 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 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.

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

ADMISSION INFORMATION

Program Admission Requirements
1. An undergraduate degree in engineering with a 3.0/4.0 GPA; non engineering degrees will be required to take supplemental undergraduate courses
2. GRE minimum of 1100 (verbal + quantitative)
3. TOEFL for international students 213 (550 paper version)
4. Three letters of reference

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS

Master of Science in Engineering -- Manufacturing Systems Option

In addition, the Departments of Chemical Engineering, Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, and Industrial Engineering, offer a Master of Science in Engineering with a Manufacturing option (consisting of 18 hours core and either 18 hours of electives or 6 hours of electives and a thesis). The degree is administered by the Industrial Engineering Department and is a true interdisciplinary degree emphasizing Robotics, Automation, Computer Aided Design, Computer Integrated Manufacturing, Control Systems, Software Systems, Hardware Systems, and Production Systems. The student may choose electives and concentrate in one of the above departments or may choose to acquire an in-depth knowledge in one of the above emphasis areas by making their elective course choices from several departments.

COURSES
See [http://www.ups.usf.edu/sab/sabs.cfm](http://www.ups.usf.edu/sab/sabs.cfm)
INDUSTRIAL ENGINEERING

Master of Science in Industrial Engineering (M.S.I.E.)

DEGREE INFORMATION

Degree Offered: Master of Science in Industrial Engineering (M.S.I.E.)
Degree Program: Industrial Engineering
Concentrations: Engineering Management, Quantitative Analysis
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Michael Weng
Other Contact: Phone: 813-974-2269
Fax: 813-974-5953
Email: jmse@eng.usf.edu
Web Address: http://imse.eng.usf.edu

Mailing Address:
University of South Florida
Industrial and Management Systems Engineering
Industrial Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The department participates in the college’s M.S.E., M.E. and M.S.E.S. programs. 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 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.

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

ADMISSION INFORMATION

Program Admission Requirements
1. An undergraduate degree in engineering with a 3.0/4.0 GPA; non engineering degrees will be required to take supplemental undergraduate courses
2. GRE minimum of 1100 (verbal + quantitative)
3. TOEFL for international students 213 (550 paper version)
4. Three letters of reference
5. Statement of purpose including evidence of research potential

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS
Minimum of 24 credit hours of approved course work and six credit hours of thesis. Contact the department for information.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
INDUSTRIAL ENGINEERING

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Industrial Engineering
Concentrations: Engineering Management, Manufacturing Systems, Quantitative Analysis
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Michael Weng
Other Contact: Phone: 813-974-2269
Fax: 813-974-5953
Email: jmse@eng.usf.edu
Web Address: http://imse.eng.usf.edu

Mailing Address:
University of South Florida
Industrial and Management Systems Engineering
Industrial Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

Contact the department for information.

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

ADMISSION INFORMATION

Program Admission Requirements
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 program as full-time Tampa campus students. Other requirements include:
1. GRE Minimum of 1200 (verbal + quantitative);
2. TOEFL for international students 213 (550 paper version)
3. Three letters of reference
4. Statement of Purpose including evidence of research potential

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS
Minimum of 90 credit hours beyond BS degree. Minimum of 60 credit hours of approved course work and 20 credit hours of research. Contact the department for information. Also visit http://imse.eng.usf.edu

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
MECHANICAL ENGINEERING

Master of Engineering (M.E.)

DEGREE INFORMATION
Degree Offered: Master of Engineering (M.E.)
Degree Program: Mechanical Engineering
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION
Program Director: Jose Porteiro
Other Contact: n/a
Phone: 813-974-2280
Fax: 813-974-3539
Email: n/a
Web Address: http://me.eng.usf.edu/
Mailing Address:
University of South Florida
Mechanical Engineering
Mechanical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION
The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering. Coursework and research opportunities are available in the areas of fluid mechanics and aerodynamics, thermodynamics, combustion, heat transfer, robotics (with an emphasis on automation, miniaturization and instrumentation), intelligent machines, mechatronics, mechanical controls, vibrations, tribology, computer aided engineering, computational methods in structural mechanics, computational fluid dynamics, energy conservation, system simulation, and analysis of composite materials.

Departmental laboratory facilities include mainframe, mini and personal computers, a wide assortment of basic instrumentation with A/D converters, a subsonic wind tunnel with laser-doppler anemometer, robotics sensors (acoustic and optical), engines, dynamometers, fluid flow/heat transfer equipment, vibrations instrumentation, and remote sensing and control instrumentation for data acquisition and energy management systems. The department also maintains a CAD Laboratory with AutoCAD, Pro/E and Ansys, and a CFD Laboratory with Phoenics.

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

ADMISSION INFORMATION
Program Admission Requirements
All applicants must take the GRE. A minimum score of 600 on the quantitative portion and a minimum total score of 1100 (verbal and quantitative) must be obtained or the student must have a grade point average (GPA) of 3.0/4.0 for the last two years of coursework from an ABET accredited engineering program for admission to the Master’s Program. International students must score a minimum of 500 on the TOEFL examination.

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS
The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department’s entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E. is a thesis or design project program.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
MECHANICAL ENGINEERING

Master of Mechanical Engineering (M.M.E.)

DEGREE INFORMATION

Degree Offered: Master of Mechanical Engineering (M.M.E.)
Degree Program: Mechanical Engineering
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Jose Porteiro
Other Contact: n/a
Phone: 813-974-2280
Fax: 813-974-3539
Email: n/a
Web Address: http://me.eng.usf.edu/
Mailing Address:
University of South Florida
Mechanical Engineering
Mechanical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering. Coursework and research opportunities are available in the areas of fluid mechanics and aerodynamics, thermodynamics, combustion, heat transfer, robotics (with an emphasis on automation, miniaturization and instrumentation), intelligent machines, mechatronics, mechanical controls, vibrations, tribology, computer aided engineering, computational methods in structural mechanics, computational fluid dynamics, energy conservation, system simulation, and analysis of composite materials. Departmental laboratory facilities include mainframe, mini and personal computers, a wide assortment of basic instrumentation with A/D converters, a subsonic wind tunnel with laser-doppler anemometer, robotics sensors (acoustic and optical), engines, dynamometers, fluid flow/heat transfer equipment, vibrations instrumentation, and remote sensing and control instrumentation for data acquisition and energy management systems. The department also maintains a CAD Laboratory with AutoCAD, Pro/E and Ansys, and a CFD Laboratory with Phoenics.

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

ADMISSION INFORMATION

Program Admission Requirements
All applicants must take the GRE. A minimum score of 600 on the quantitative portion and a minimum total score of 1100 (verbal and quantitative) must be obtained or the student must have a grade point average (GPA) of 3.0/4.0 for the last two years of coursework from an ABET accredited engineering program for admission to the Master’s Program. International students must score a minimum of 500 on the TOEFL examination.

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS

The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department’s entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E is a thesis or design project program.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
MECHANICAL ENGINEERING

Master of Science in Engineering Science (M.S.E.S.)

DEGREE INFORMATION

Degree Offered: Master of Science in Engineering Science (M.S.E.S.)

Degree Program: Mechanical Engineering

Concentrations: n/a

Program Status: Active

Program Level: Masters

CONTACT INFORMATION

Program Director: Jose Porteiro

Other Contact: n/a

Phone: 813-974-2280

Fax: 813-974-3539

Email: n/a

Web Address: http://me.eng.usf.edu/

Mailing Address:
University of South Florida
Mechanical Engineering
Mechanical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL  33620

PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering. Coursework and research opportunities are available in the areas of fluid mechanics and aerodynamics, thermodynamics, combustion, heat transfer, robotics (with an emphasis on automation, miniaturization and instrumentation), intelligent machines, mechatronics, mechanical controls, vibrations, tribology, computer aided engineering, computational methods in structural mechanics, computational fluid dynamics, energy conservation, system simulation, and analysis of composite materials. Departmental laboratory facilities include mainframe, mini and personal computers, a wide assortment of basic instrumentation with A/D converters, a subsonic wind tunnel with laser-doppler anemometer, robotics sensors (acoustic and optical), engines, dynamometers, fluid flow/heat transfer equipment, vibrations instrumentation, and remote sensing and control instrumentation for data acquisition and energy management systems. The department also maintains a CAD Laboratory with AutoCAD, Pro/E and Ansys, and a CFD Laboratory with Phoenics.

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

ADMISSION INFORMATION

Program Admission Requirements
All applicants must take the GRE. A minimum score of 600 on the quantitative portion and a minimum total score of 1100 (verbal and quantitative) must be obtained or the student must have a grade point average (GPA) of 3.0/4.0 for the last two years of coursework from an ABET accredited engineering program for admission to the Master’s Program. International students must score a minimum of 500 on the TOEFL examination.

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS

The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department’s entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E. is a thesis or design project program.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
# MECHANICAL ENGINEERING

**Master of Science in Mechanical Engineering (M.S.M.E.)**

## DEGREE INFORMATION

<table>
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<tr>
<th>Degree Offered:</th>
<th>Master of Science in Mechanical Engineering (M.S.M.E.)</th>
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<td>Degree Program:</td>
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<td>Concentrations:</td>
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<td>Program Level:</td>
<td>Masters</td>
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## CONTACT INFORMATION

<table>
<thead>
<tr>
<th>Program Director:</th>
<th>Jose Porteiro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Contact:</td>
<td>n/a</td>
</tr>
<tr>
<td>Phone:</td>
<td>813-974-2280</td>
</tr>
<tr>
<td>Fax:</td>
<td>813-974-3539</td>
</tr>
<tr>
<td>Email:</td>
<td>n/a</td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://me.eng.usf.edu/">http://me.eng.usf.edu/</a></td>
</tr>
</tbody>
</table>

**Mailing Address:**

University of South Florida  
Mechanical Engineering  
Mechanical Engineering Program  
4202 E. Fowler Avenue, ENB118  
Tampa, FL 33620

## PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering. Coursework and research opportunities are available in the areas of fluid mechanics and aerodynamics, thermodynamics, combustion, heat transfer, robotics (with an emphasis on automation, miniaturization and instrumentation), intelligent machines, mechatronics, mechanical controls, vibrations, tribology, computer aided engineering, computational methods in structural mechanics, computational fluid dynamics, energy conservation, system simulation, and analysis of composite materials. Departmental laboratory facilities include mainframe, mini and personal computers, a wide assortment of basic instrumentation with A/D converters, a subsonic wind tunnel with laser-doppler anemometer, robotics sensors (acoustic and optical), engines, dynamometers, fluid flow/heat transfer equipment, vibrations instrumentation, and remote sensing and control instrumentation for data acquisition and energy management systems. The department also maintains a CAD Laboratory with AutoCAD, Pro/E and Ansys, and a CFD Laboratory with Phoenics.

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

## ADMISSION INFORMATION

**Program Admission Requirements**

All applicants must take the GRE. A minimum score of 600 on the quantitative portion and a minimum total score of 1100 (verbal and quantitative) must be obtained or the student must have a grade point average (GPA) of 3.0/4.0 for the last two years of coursework from an ABET accredited engineering program for admission to the Master’s Program. International students must score a minimum of 500 on the TOEFL examination.

**Program Admission Deadlines**

Same as general University Requirements

## DEGREE PROGRAM REQUIREMENTS

The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department’s entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E. is a thesis or design project program.

## COURSES

See [http://www.ups.usf.edu/sab/sabs.cfm](http://www.ups.usf.edu/sab/sabs.cfm)
MECHANICAL ENGINEERING

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Mechanical Engineering
Concentrations: Manufacturing
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Jose Porteiro
Other Contact: n/a
Phone: 813-974-2280
Fax: 813-974-3539
Email: n/a
Web Address: http://me.eng.usf.edu/

Mailing Address:
University of South Florida
Mechanical Engineering
Mechanical Engineering Program
4202 E. Fowler Avenue, ENB118
Tampa, FL 33620

PROGRAM INFORMATION

The Department offers graduate programs leading to the M.S. and Ph.D. in Mechanical Engineering. Coursework and research opportunities are available in the areas of fluid mechanics and aerodynamics, thermodynamics, combustion, heat transfer, robotics (with an emphasis on automation, miniaturization and instrumentation), intelligent machines, mechatronics, mechanical controls, vibrations, tribology, computer aided engineering, computational methods in structural mechanics, computational fluid dynamics, energy conservation, system simulation, and analysis of composite materials. Departmental laboratory facilities include mainframe, mini and personal computers, a wide assortment of basic instrumentation with A/D converters, a subsonic wind tunnel with laser-doppler anemometer, robotics sensors (acoustic and optical), engines, dynamometers, fluid flow/heat transfer equipment, vibrations instrumentation, and remote sensing and control instrumentation for data acquisition and energy management systems. The department also maintains a CAD Laboratory with AutoCAD, Pro/E and Ansys, and a CFD Laboratory with Phoenics.

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

ADMISSION INFORMATION

Program Admission Requirements
As a rule only students with an M.S. in Mechanical Engineering or a closely related field will be admitted into the Ph.D. Program. Students without an M.S. in Mechanical Engineering may also be admitted but will be required to take a minimum of 6 credit hours from the Fluid and Thermal Sciences area and a minimum of 6 credit hours from the Mechanics and Systems area. Minimum requirements for admission are 650 on the quantitative section of the GRE and 1200 on the total score (verbal and quantitative).

Program Admission Deadlines
Same as general University Requirements

DEGREE PROGRAM REQUIREMENTS

The Department of Mechanical Engineering has available, on request, the Mechanical Engineering Graduate Program Handbook, which delineates the Department’s entrance requirements, programs of study, supervisory committee formation, and program completion requirements. The M.M.E is a non-thesis program and the M.S.M.E. is a thesis or design project program.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
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: advisor@marine.usf.edu
Phone:  727-553-1130
Fax:  727-553-1189

College Dean:  Peter Betzer
Associate Dean:  n/a
Graduate Coordinator:  Ted Van Vleet

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools

Mission
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 both the biology, chemistry, geology, and physics of the marine environment and to 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 programs 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.

The College of Marine Science’s specialized laboratories include those for 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. The College has a large flume facility and laser Doppler velocimeter for interdisciplinary boundary layer studies. It is often the case that a student's research is primarily conducted at sea. Bayboro Harbor can accommodate any ship in the fleet of the U.S. oceanographic vessels, and is home-port to the principal vessels operated by the Florida Institute of Oceanography for the entire State University System. Marine science students frequently participate in Gulf of Mexico cruises on either of two FIO vessels, the R/V Suncoaster (110ft) and the R/V Bellows (71ft). 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. Over the past decade, the College's students and faculty have conducted research in the Antarctic, Atlantic, Indian, and Pacific Oceans, as well as the Norwegian, Bering, Mediterranean and Caribbean Seas.

**Major Research Areas:**
Refer to College Information above.

**Types of Degrees Offered:**
Master of Science (M.S.), Doctor of Philosophy (Ph.D.)

**Name of Programs Offered:**
**Master of Science M.S.**
Biological Oceanography
Chemical Oceanography
Geological Oceanography
Physical Oceanography

**Doctor of Philosophy Ph.D.**
Biological Oceanography

**Concentrations:**
Biological Oceanography (M.S., Ph.D.)
Chemical Oceanography (M.S., Ph.D.)
Geological Oceanography (M.S., Ph.D.)
Physical Oceanography (M.S., Ph.D.)
Interdisciplinary

**Graduate Certificates Offered:**
n/a

**COLLEGE REQUIREMENTS**
Refer to College website for information
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

This is the Program, or Major

MARINE SCIENCE

Master of Science (M.S.) in Marine Science

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Marine Science
Concentration: n/a

EXAMPLE OF CONCENTRATION PAGE

This is the Program, or Major

ADULT EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Adult Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
MARINE SCIENCE

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science - M.S.
Degree Program: Marine Science
Concentrations: Biological Oceanography
               Chemical Oceanography
               Geological Oceanography
               Physical Oceanography
               Interdisciplinary
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Ted Van Vleet
Other Contact: n/a
Phone: 727-553-1130
Fax: 727-553-1189
Email: advisor@marine.usf.edu
Web Address: http://www.marine.usf.edu/
Mailing Address:
University of South Florida
Marine Science
Marine Science Program
140 7th Ave. S., MSL 119
St. Petersburg, FL 33701

PROGRAM INFORMATION

The College of Marine Science (CMS) offers M.S. and Ph.D. degrees in Marine Science. The student may emphasize biological, chemical, geological, or physical oceanography, or develop an interdisciplinary program in oceanography through course work and thesis or dissertation research. More than 100 students are currently pursuing degrees under the direction of 30 full-time faculty. Study areas range from estuarine and near-shore systems to remote areas of the Pacific, Atlantic and Indian Oceans, as well as the Arctic and Antarctic. Additional information on faculty research and college facilities is available from the department upon request.

The College's location on St. Petersburg’s Bayboro Campus allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home-port to the R/V Bellows (71 ft.) and the R/V Suncoaster (110 ft.) operated by the Florida Institute of Oceanography (FIO) for the State University System. The College's principal building is shared with FIO and is adjacent to the Florida Marine Research Institute (FMRI), the research arm of the Florida Fish and Wildlife Conservation Commission (FWCC). A recently completed research building shared by CMS and FWCC houses a remote sensing, satellite data-acquisition center. With the Center for Coastal Geology and Regional Studies of the U.S. Geological Survey and the office of the Tampa Bay National Estuary Program also at Bayboro, our campus has one of the largest concentrations of marine scientists in the southeastern United States. Many of these scientists serve on advisory committees of CMS graduate students.

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

ADMISSION INFORMATION

Program Admission Requirements
A. Bachelor’s degree or equivalent from a regionally accredited university (Preferable majors include biology, chemistry, geology, physics or math)
B. Have earned a “B” (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working for a baccalaureate degree
C. Have completed all of the coursework listed on our website (http://www.marine.usf.edu) under “Undergraduate Preparation”
D. Have taken the Graduate Record Examination (GRE) and attained a minimum score of 1100 (combined verbal and quantitative) within 5 years preceding application
E. Have the commitment of a Marine Science faculty member to serve as advisor during the student’s graduate studies.

Program Admission Deadlines
Fall deadlines
U.S. Citizens: March 1
International Students (not currently within the U.S.): January 2

Spring deadlines
U.S. Citizens: October 1
International Students
(not currently within the U.S.): July 1
International Students
(currently residing within the U.S.): September 1

DEGREE PROGRAM REQUIREMENTS

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 program of each student. Students must complete a minimum of 32 credits under the following areas:

1. Core courses completed with a grade of “B” or better:
   OCB 6050
   OCC 6050
   OCG 6051
   OCP 6050

2. six (6) credits of OCE 6971

Students must also complete a thesis and pass a final oral examination conducted by members of the student’s advisory committee.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
MARINE SCIENCE

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Marine Science
Concentrations: Biological Oceanography, Chemical Oceanography, Geological Oceanography, Physical Oceanography, Interdisciplinary
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Ted Van Vleet
Other Contact: n/a
Phone: 727-553-1130
Fax: 727-553-1189
Email: advisor@marine.usf.edu
Web Address: http://www.marine.usf.edu/

Mailing Address:
University of South Florida
Marine Science
Marine Science Program
140 7th Ave. S., MSL 119
St. Petersburg, FL 33701

PROGRAM INFORMATION

The College of Marine Science (CMS) offers M.S. and Ph.D. degrees in Marine Science. The student may emphasize biological, chemical, geological, or physical oceanography, or develop an interdisciplinary program in oceanography through course work and thesis or dissertation research. More than 100 students are currently pursuing degrees under the direction of 28 full-time faculty. Study areas range from estuarine and near-shore systems to remote areas of the Pacific, Atlantic and Indian Oceans, as well as the Arctic and Antarctic. Additional information on faculty research and college facilities is available from the department upon request.

The college's location on St. Petersburg’s Bayboro Campus allows immediate access to Tampa Bay and the Gulf of Mexico. Bayboro Harbor is home-port to the R/V Bellows (71 ft.) and the R/V Suncoaster (110 ft.) operated by the Florida Institute of Oceanography (FIO) for the State University System. The college's principal building is shared with FIO and is adjacent to the Florida Marine Research Institute (FMRI), the research arm of the Florida Fish and Wildlife Conservation Commission (FWCC). A recently completed research building shared by CMS and FWCC houses a remote sensing, satellite data-acquisition center. With the Center for Coastal Geology and Regional Studies of the U.S. Geological Survey and the office of the Tampa Bay National Estuary Program also at Bayboro, our campus has one of the largest concentrations of marine scientists in the southeastern United States. Many of these scientists serve on advisory committees of CMS graduate students.

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

ADMISSION INFORMATION

Program Admission Requirements

A. Bachelor’s degree or equivalent from a regionally accredited university (preferable majors include biology, chemistry, geology, physics or math). Master’s degree in one of the above sciences highly preferable.
B. Have earned a “B” (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working for a baccalaureate degree.
C. Have completed all of the coursework listed on our website (http://www.marine.usf.edu) under “Undergraduate Preparation”
D. Have taken the Graduate Record Examination (GRE) and attained a minimum score of 1100 (combined verbal and quantitative) within 5 years preceding application
E. Have the commitment of a Marine Science faculty member to serve as advisor during the student’s graduate studies.
Program Admission Deadlines

Fall deadlines
U.S. Citizens: March 1
International Students (not currently within the U.S.): January 2

Spring deadlines
U.S. Citizens: October 1
International Students (not currently within the U.S.): July 1
International Students (currently residing within the U.S.): September 1

DEGREE PROGRAM REQUIREMENTS

A committee, consisting of a major advisor and at least 4 other members of the graduate faculty, is appointed to supervise and guide the program of the candidate. One member shall be from a science department outside Marine Science. In addition to University requirements, students must complete:

1. A core program consisting of OCB 6050, OCC 6050, OCG 6051, and OCP 6050 with a grade of “B” or better,

2. A comprehensive qualifying exam consisting of a written and oral portion. A student must receive a passing vote on the qualifying exam from at least 4 committee members before admission to Ph.D. candidacy.

3. A minimum of 16 credits of OCE 7980. 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.


COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
The faculty is dedicated to providing high quality education in an environment conducive to scholarly activity and scientific achievement. Financial Aid - A limited number of assistantships, fellowships, and tuition waivers are available for graduate students. Applicants seeking support should contact the chairperson of the department to which they are applying.

**Major Research Areas:**
Contact College for information.

**Types of Degrees Offered:**
- Master of Bioethics and Medical Humanities (M.A.B.M.H.)
- Master of Science in Bioinformatics and Computational Biology Program (M.S.B.C.B.)
- Master of Science in Medical Sciences (M.S.M.S.)
- Master of Science in Physical Therapy (M.S.P.T.)
- Doctor of Philosophy (Ph.D.)

**Name of Programs Offered:**
- Master of Bioethics and Medical Humanities Program (M.A.B.M.H.)
- Bioethics and Medical Humanities

- Master of Science in Bioinformatics and Computational Biology Program (M.S.B.C.B.)
- Bioinformatics and Computational Biology

- Master of Science in Med. Sciences (M.S.M.S.)*
  *Offered as part of the Ph.D. Program

- Master of Science in Physical Therapy (M.S.P.T.)
- Physical Therapy

- Doctor of Philosophy (Ph.D.)
- Medical Sciences
Doctor of Physical Therapy (D.P.T.)
Physical Therapy - *NEW PROGRAM*

**Concentrations:**
Anatomy
Biochemistry and Molecular Biology
Microbiology and Immunology
Neuroscience
Pathology & Laboratory Medicine
Pharmacology & Therapeutics
Physiology & Biophysics

**Graduate Certificates Offered:** n/a

**College Requirements:**
Refer to College for information.
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

MEDICAL SCIENCES

Master of Medical Sciences (M.S.M.S.)

**Degree Information**

- **Degree Offered:** Master of Medical Sciences (M.S.M.S.)
- **Degree Program:** Medical Sciences
- **Concentration:** n/a

EXAMPLE OF CONCENTRATION PAGE

ADULT EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction

**Concentration:** Adult Education

**Degree Information**

- **Degree Offered:** Doctor of Philosophy - Ph.D.
- **Degree Program:** Curriculum and Instruction
- **Concentration:** Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
BIOETHICS AND MEDICAL HUMANITIES

Master of Bioethics and Medical Humanities (M.A.B.M.H.)

DEGREE INFORMATION

Degree Offered: Master of Arts in Bioethics and Medical Humanities (M.A.B.M.H)
Degree Program: Bioethics and Medical Humanities
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Lois Nixon
Other Contact: Ruth Marrero
Phone: 813-974-5300
Fax: 813-974-5460
Email: lnixon@hsc.usf.edu
Web Address:
http://hsc.usf.edu/medicine/internalmedicine/bioethics/
Mailing Address:
University of South Florida
Bioethics and Medical Humanities Program
12901 Bruce B. Downs Blvd, MDC19
Tampa, FL 33620

PROGRAM INFORMATION

This innovative program, the first in Florida to combine bioethics and medical humanities, is designed to prepare leaders for increasingly complex healthcare concerns, especially those raised by advancements in technology, the distribution of scarce resources, and emerging global tensions. It is designed to focus on questions associated with genetic research and therapy, new reproductive technologies, health care delivery systems, end-of-life decisions, bio-terrorism, and numerous challenges associated with cultural sensitivities and competencies. The program is founded on the premise that questions posed by contemporary health care dilemmas, whether local, national or international, do not reside within the province of any single discipline, but require collaborative integration of insights from science, humanities, history, law, medicine, public health, nursing, philosophy, education and social-behavioral sciences.

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

ADMISSION INFORMATION

Program Admission Requirements
1. BA or equivalent degree from a regionally accredited university, with a “B” (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working toward a baccalaureate degree; AND
2. Graduate Record Examination (GRE) scores that total 1000 or better (verbal plus quantitative); OR
3. GMAT scores of 500 or better; OR
4. An equivalent measure approved by the Board of Trustees, taken within five years preceding application

Applicants to the program will be expected to have some competency in basic research design and methods (either qualitative or quantitative) that will be determined from student transcripts. Students who do not meet this prerequisite will be encouraged to enroll in USF courses that provide this foundation.

Program Admission Deadlines
Contact program for information.

DEGREE PROGRAM REQUIREMENTS

Four required core courses (12 credit hours) and Research Ethics Seminar (3 credit hours)
Four Elective courses (12 credit hours)
Two internships (6 credit hours)
Thesis project or three month internship (6 credit hours)

Core Courses
BMS 6821 Medical Ethics and Humanities
BCH 6411 Health Sciences
BCH 6xxx Philosophical and Religious Perspectives on Ethics
BCH 6xxx Bioethics in Contemporary Society

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

Master of Bioinformatics and Computational Biology (M.S.B.C.B.)

DEGREE INFORMATION

Degree Offered: Master of Science in Bioinformatics and Computational Biology (M.S.B.C.B.)

Degree Program: Bioinformatics and Computational Biology

Concentrations: n/a

Program Status: Active

Program Level: Masters

CONTACT INFORMATION

Program Directors: Inge Wefes
Other Contact: n/a
Phone: 813-974-5360
Fax: 813-974-7357
Email: jwefes@hsc.usf.edu
Web Address: http://hsc.usf.edu/medicine/biochemistry/msbioinfocompbiol.html

Mailing Address:
University of South Florida
Biochemistry and Molecular Biology
Bioinformatics and Computational Biology Program
12901 Bruce B. Downs Blvd, MDC 7
Tampa, FL 33612

PROGRAM INFORMATION

The Masters Program in Bioinformatics and Computational Biology at the University of South Florida represents a multi-college partnership and a truly interdisciplinary collaboration. Participating departments include the Departments of Biochemistry & Molecular Biology in the College of Medicine, Mathematics in the College of Arts and Sciences, Computer Sciences and Engineering and the Division of Biomedical Engineering in the College of Engineering, Epidemiology & Biostatistics in the College of Public Health and Information Systems & Decision Sciences in the College of Business Administration. The program 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 program, therefore, builds on and complements the current strengths of the university.

The goal of the Masters Program in Bioinformatics & Computational Biology is to provide students enrolled in the program 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 of Bioinformatics & Computational Biology. The Masters Program in Bioinformatics & Computational Biology is designed for 40 credit hours to be obtained during two years of study. Nine core courses will provide the foundation and basics before advanced work, including four electives, and a Master's thesis or internship will be pursued. The curriculum is flexible and will be tailored to the individual student's background, interests and career goals. However, electives must be selected from at least two of the participating departments to assure breadth of training. Exceptional students with extra motivation and commitment can enroll in the Ph.D.-PLUS program. The Ph.D.-PLUS program provides the opportunity to study for a Ph.D. in Biochemistry and Molecular Biology and a Master's degree in Bioinformatics and Computational Biology concurrently. Nine credit hours can be double credited. http://biochem.usf.edu/phdplus/index.html

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

ADMISSION INFORMATION

Program Admission Requirements
1. A bachelor’s degree or equivalent from a regionally accredited university
2. Minimum overall grade-point average of 3.0 out of a possible 4.0 with a minimum grade-point average of 3.0 in the sciences
3. Graduate Record Examination score of 1100 or higher
4. Completed pre-requisites in:
   a. Calculus I-III
   b. Linear algebra
c. Biostatistics
d. At least "C" and "maple" or "mathematica" or "math-cad"
e. General biology (1 year)
f. Organic chemistry (1 year)

Program Admission Deadlines
Contact program for information.

DEGREE PROGRAM REQUIREMENTS

Prerequisites:
Calculus I-III, linear algebra, biostatistics, at least "C" and "maple" or "mathematica" or "math-cad", one year of general biology and one year of organic chemistry.

Required courses:
GMS 6200 Introduction into Medical Biochemistry Cr: 3-5
BCH 6888 Bioinformatics I Cr: 2
MAT 5932 Selected Topics in Combinatorics and Graph Theory C: 3
BCH 6411 Introduction into Molecular Biology Cr: 2-4
GMS 7930 Bioinformatics II Cr: 3
MAT 5932 Selected Topics in Probability Theory Cr: 3
GMS 7930 Research Ethics Cr: 2
CIS 6930 Advanced Data Structures Cr: 3
MAT 6932 Selected Topics in Bioinformatics and Computational Biology Cr: 2

Complete M.S. Thesis Project or Internship Cr: 4-6

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
MEDICAL SCIENCES

Master of Science in Medical Sciences (M.S.M.S.)

DEGREE INFORMATION
Degree Offered: Master of Science in Medical Sciences - M.S.M.S.
Degree Program: Medical Sciences
Concentrations: n/a
Program Status: Active
Offered as part of the Ph.D. program
Program Level: Masters

PROGRAM INFORMATION
The program is designed to provide students with a broad knowledge in the basic medical sciences, while preparing them for careers as effective and knowledgeable teachers, as well as productive and versatile researchers. To meet these objectives, students take courses in the medical sciences and related areas, participate in seminars, and receive individual research training. Departmental advisory committees counsel the entering students in planning their first year curriculum. In addition to course work and participation in seminars, first year students are expected to become familiar with ongoing research in their chosen department; when possible, they are encouraged to work on a part-time basis as research assistants in their department. Once the student selects a major professor, a formal dissertation committee is appointed. The dissertation committee assists the student in planning the research and course of study, evaluates the student’s progress, supervises the comprehensive examination, and conducts the final dissertation defense.

By the end of the second year, a student has usually completed sufficient course work and met the other research requirements to take the comprehensive qualifying examination. Successful completion of this examination leads to formal admission to candidacy for the Ph.D. degree. The final phase of the program emphasizes research and independent study and leads to a written dissertation. The Ph.D. degree is awarded upon successful completion and oral defense of the dissertation. Departments within the College of Medicine may have additional requirements that pertain to their respective training program. Contact the department for information.

CONTACT INFORMATION
Program Director: Joseph Krzanowski
Other Contact: Franjesca Jackson
Phone: 813-974-2256
Fax: 813-974-4317
Email: fjackson@hsc.usf.edu
Web Address: http://hsc.usf.edu/medicine/phd/
Mailing Address:
University of South Florida
College of Medicine
Medical Science Program
4202 E. Fowler Ave, MDC40
Tampa, FL 33612

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

Major Research Areas:
See Concentration websites

ADMISSION INFORMATION
Program Admission Requirements
1. A bachelor’s degree or equivalent from a regionally accredited university
2. Minimum overall grade-point average of 3.0 out of a possible 4.0 with a minimum grade-point average of 3.0 in the sciences*
3. Graduate Record Examination score of 1000 or higher
4. Completed pre-requisites in:
   a. General biology (1 year)
   b. General chemistry (1 year)
   c. General physics (1 year)
   d. Organic chemistry (1 year)
   e. Quantitative analysis (1 course)
   f. Mathematics including integral and differential calculus

Program Admission Deadlines
Contact program for information.

DEGREE PROGRAM REQUIREMENTS
For requirements for either the M.S.M.S. or Ph.D., please contact the College.

COURSES - See http://www.ups.usf.edu/sab/sabs.cfm
MEDICAL SCIENCES

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Medical Sciences
Concentrations: Anatomy
Biochemistry and Molecular Biology
Microbiology and Immunology
Neuroscience
Pathology and Laboratory Medicine
Pharmacology and Therapeutics
Physiology and Biophysics
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Joseph Krzanowski
Other Contact: Franjesca Jackson
Phone: 813-974-2256
Fax: 813-974-4317
Email: fjackson@hsc.usf.edu
Web Address: http://hsc.usf.edu/medicine/phd/

Mailing Address:
University of South Florida
College of Medicine
Medical Science Program
4202 E. Fowler Ave, MDC40
Tampa, FL 33612

PROGRAM INFORMATION

The program is designed to provide students with a broad knowledge in the basic medical sciences, while preparing them for careers as effective and knowledgeable teachers, as well as productive and versatile researchers. To meet these objectives, students take courses in the medical sciences and related areas, participate in seminars, and receive individual research training. Departmental advisory committees counsel the entering students in planning their first year curriculum. In addition to course work and participation in seminars, first year students are expected to become familiar with ongoing research in their chosen department; when possible, they are encouraged to work on a part-time basis as research assistants in their department. Once the student selects a major professor, a formal dissertation committee is appointed. The dissertation committee assists the student in planning the research and course of study, evaluates the student’s progress, supervises the comprehensive examination, and conducts the final dissertation defense.

By the end of the second year, a student has usually completed sufficient course work and met the other research requirements to take the comprehensive qualifying examination. Successful completion of this examination leads to formal admission to candidacy for the Ph.D. degree. The final phase of the program emphasizes research and independent study and leads to a written dissertation. The Ph.D. degree is awarded upon successful completion and oral defense of the dissertation. Departments within the College of Medicine may have additional requirements that pertain to their respective training program. Contact the department for information.

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

Major Research Areas: See Concentration websites

ADMISSION INFORMATION

Program Admission Requirements
1. A bachelor’s degree or equivalent from a regionally accredited university
2. Minimum overall grade-point average of 3.0 out of a possible 4.0 with a minimum grade-point average of 3.0 in the sciences
3. Graduate Record Examination score of 1100 or higher
4. Completed pre-requisites in:
   a. General biology (1 year)
   b. General chemistry (1 year)
   c. General physics (1 year)
   d. Organic chemistry (1 year)
   e. Quantitative analysis (1 course)
   f. Mathematics including integral and differential calculus

Program Admission Deadlines
Contact program for information.

DEGREE PROGRAM REQUIREMENTS

For requirements for either the M.S.M.S. or Ph.D., please contact the College.

COURSES

See http://www.ugs.usf.edu/sab/sabs.cfm
# PHYSICAL THERAPY

## Master of Science in Physical Therapy (M.S.P.T.)

<table>
<thead>
<tr>
<th>DEGREE INFORMATION</th>
<th>CONTACT INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree Offered: Master of Science in Physical Therapy - M.S.P.T.</td>
<td>Program Director: William Quillen</td>
</tr>
<tr>
<td>Degree Program: Physical Therapy</td>
<td>Other Contact: Joselin Sanadi</td>
</tr>
<tr>
<td>Concentrations: n/a</td>
<td>Phone: 813-974-8870</td>
</tr>
<tr>
<td>Program Status: Inactive</td>
<td>Fax: 813-974-8915</td>
</tr>
<tr>
<td>Program Level: Masters</td>
<td>Email: <a href="mailto:dpt@hsc.usf.edu">dpt@hsc.usf.edu</a></td>
</tr>
<tr>
<td></td>
<td>Web Address: <a href="http://dpt.hsc.usf.edu">http://dpt.hsc.usf.edu</a></td>
</tr>
</tbody>
</table>

**Inactive.** Currently, students are not being admitted to this program.
PHYSICAL THERAPY

Doctor of Physical Therapy (D.P.T.)

DEGREE INFORMATION

Degree Offered: Doctor of Physical Therapy (D.P.T.)
Degree Program: Physical Therapy
Concentrations: n/a
Program Status: Active
First Class Admitted: August 2005
Program Level: Professional

CONTACT INFORMATION

Program Director: William Quillen
Other Contact: Joselin Sanadi
Phone: 813-974-8870
Fax: 813-974-8915
Email: dptfo@hsc.usf.edu
Web Address: http://dpt.hsc.usf.edu

Mailing Address:
School of Physical Therapy
College of Medicine
University of South Florida
12901 Bruce B. Downs Blvd., MDC77
Tampa, FL 33612-4766

PROGRAM INFORMATION

Physical therapists are health professionals with special expertise in the science of movement. They use this knowledge to provide preventive and therapeutic services and psychological support to people of all ages with movement dysfunction. Professional education includes study of basic sciences and the professional skills needed for client examination, evaluation, diagnosis, prognosis, intervention and outcomes. Students will participate in comprehensive clinical internships throughout the program. The School of Physical Therapy is a component of the College of Medicine and is a limited access first professional degree program with an annual enrollment of up to 36 students per year. Students complete the majority of their first year studies on a parallel path with the first year curriculum in medicine.

Accreditation:
Accredited by the Commission on Accreditation in Physical Therapy Education.

ADMISSION INFORMATION

Program Admission Requirements
1. Have a bachelor’s degree or equivalent from a regionally accredited university, and
2. Have taken the Graduate Record Examination (GRE) within five years preceding application, and
Meet all of the following criteria:

3. Have earned a "B" (3.0 on a 4.0 scale) average or better in all work attempted while registered as an upper division student working for a baccalaureate degree.

4. Have a total verbal plus quantitative GRE General Test score of 1000 or higher taken within five years preceding application.

5. Have at least a 3.0 GPA on all prerequisite coursework.

6. Have at least 20 total hours of observation in an outpatient and inpatient physical therapy setting.

7. English competency. Applicants who have completed a degree in which English is not the primary language of instruction must present evidence of competency to pursue studies in the English language prior to being extended an offer of admission. Acceptable English language proficiency tests for applicants to the Doctor of Physical Therapy program are: TOEFL (Test of English as a Foreign Language) a minimum score of 600 (paper version); 230 (computer version).

8. Have a written autobiographical statement of personal values and purpose for attending USF’s DPT Degree Program. ***

*** This requirement will be effective for applicants applying for 2006 admission.***

Program Admission Deadlines
Contact program for information.

DEGREE PROGRAM REQUIREMENTS
Students must complete 107 credit hours of professional coursework and meet the general graduate requirements of the School of Physical Therapy and College of Medicine for admission and graduation.

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
Section 21
College of Nursing

University of South Florida
College of Nursing
12901 Bruce B. Downs Blvd. MDC22
Tampa, FL 33620

Web address: http://hsc.usf.edu/nocms/nursing/index.html
Email: estorck@hsc.usf.edu
Phone: 813-974-2191
Fax: 813-974-5418

College Dean: Patricia Burns
Associate Dean: Judith Karshmer
Graduate Coordinator: Lois Gonzalez
College Contact: Carl Stork

Accreditation:

Mission Statement:
The College of Nursing is committed to advance the science and practice of the profession by creating environments conducive to learning, scholarly inquiry, and the development of innovative community partnerships. The College of Nursing is dedicated to achieving national recognition for its contributions to improving health care outcomes.

Major Research Areas:
Research opportunities include: Quality of Life/End of Life; Heart Disease and Treatment; Women, Children, Families and Communities; Health Services Research, Interdisciplinary Mental Health, and Patient Safety.

Types of Degrees Offered:
Master of Science (M.S.), Doctor of Philosophy (Ph.D.), Dual Degree M.S./MPH in Occupational Health Nursing/Adult Nurse Practitioner

Name of Programs Offered:
Nursing

Concentrations:
Academic Role
Acute Care Nursing
Adult Health Nursing
Child Health Nursing
Critical Care Nursing
Family Health Nursing
Gerontological Nursing
Health Systems Informatics
Health Systems Leadership
Nursing Education
Occupational Health Nursing
Oncology Nursing
Psychiatric-Mental Health Nursing

COLLEGE REQUIREMENTS
For specific degree requirements for the M.S. and Ph.D. programs in Nursing, refer to the Nursing Program Information.
Graduate Certificates Offered:
Hospice, Palliative Care and End of Life Studies
Nursing and Healthcare Informatics
Nursing Education
Post Master’s Nurse Practitioner: Adult Health, Child Health, Family Health, Psych/Mental Health, Gero-Psychiatry, Gerontology, Oncology Nursing. The credit hours will vary depending on the area of specialization.

Baccalaureate Degree (Nursing) to Master’s Degree Program (BS to MS)
Nurse with a baccalaureate degree in nursing are prepared to enroll directly in graduate course work. The total number of credits required is specific to the nursing concentration
- BS (Nursing) from an accredited program
- Earned grade point average of 3.0 or higher on 4.0 scale
- All sections of the Graduate Record Exam (GRE)
- Courses in health assessment, research, and statistics
- Current license as a registered nursing in the State of Florida
- Three letters of recommendation
- Current resume or curriculum vita
- Written statement of professional goals
- A personal interview with a designated faculty member may also be required
- Some concentrations may have additional practice requirements

Registered Nurse to Master’s Degree Program (RN to MS)
The RN/MS option is designed for registered nurses who have earned a baccalaureate degree in another discipline. The student must also complete the following courses at the undergraduate level before admission to the Master’s program: statistics, research, health assessment, community health theory and community health clinical practice.
- BS/BA from an accredited program
- Earned grade point average of 3.0 or higher on 4.0 scale
- All sections of the Graduate Record Exam (GRE)
- Courses in health assessment, research, statistics, community health theory and clinical

Associate Degree in Nursing to Master’s Degree (ADN to MS)
The ADN/MS option allows the Associate Degree in Nursing prepared nurse to access graduate study directly. Students complete 18 credit hours of coursework in the baccalaureate program before applying to the Graduate Program and taking the GRE.
- Associate Degree (Nursing) from an accredited program
- Earned grade point average of 3.0 or higher on 4.0 scale
- Completion of general education and state mandated prerequisites
- Current license as a registered nursing in the State of Florida
- Three letters of recommendation
- Current resume or curriculum vita
- Written statement of professional goals
- A personal interview with a designated faculty member may also be required
- Some concentrations may have additional practice requirements

PROGRESSION POLICY
USF College of Nursing

Progression Policy
To Be Effective Fall 2004 And Apply To All Graduate Students (Current and New)

Graduate students must earn the grade of B or higher (B minus is not acceptable) in each required course in their respective nursing program. Graduate students must also maintain an overall average of 3.0 (B) in order to be considered to be “in good standing.” Students also must meet any special conditions of
their admissions. No grade below C will be accepted toward a graduate degree. All grades will be counted in computing the overall grade point average. Students must have an overall GPA of 3.0 at the completion of their respective program, or they will not be awarded a degree from the University of South Florida.

If a student earns a grade below a B 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 in two or more required courses or earns below a B in a required course twice, will be dismissed from the College. The Dean of the College of Nursing, or her designee (Associate Dean of Academic Affairs or the Associate Dean of Doctoral Studies), will notify students who are dismissed, in writing.

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 program, regardless of academic standing in other classes.

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.

Progression Process
Any student who is not in good standing at the end of a semester shall be placed on probation. The College may also place students on probation for other reasons as designated. The Associate Dean for Academic Affairs shall make notification of probation in writing to the student, the student’s program coordinator, and the Student Affairs Committee. The student shall meet with their program coordinator to develop a Probation Plan detailing the plan for removal of probationary status. The Associate Dean for Academic Affairs shall approve the Plan. A copy of the approved Plan will be given to the student and program coordinator, a written copy will also be placed in the student’s academic record.

At the end of the probationary semester, the program coordinator shall review the student’s progress and compliance with the Probationary Plan, and recommend to the Student Affairs Committee one of the three alternatives: (1) Removal of probation, (2) Continued probation and continuance of the Probation Plan, and (3) Dismissal from the degree program. The Student Affairs committee shall make a recommendation, in writing, to the Associate Dean for Academic Affairs. The Associate Dean shall notify the student in writing of his/her academic status.

The Dean of the Graduate School, upon recommendation by the Dean of the student’s College, may dismiss the student from a degree-seeking status after one semester of probation. The inability of a Veteran Student to achieve a passing cumulative GPA after two semesters of probationary status will result in termination of benefits.

Approved at March 2003 Faculty Council.
Approved December 15, 2003 Graduate Council
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About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

NURSING

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Nursing
Concentration: n/a

EXAMPLE OF CONCENTRATION PAGE

ADULT EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Adult Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
NURSING

Master of Science (M.S.)

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Nursing
Concentrations:
- Academic Role
- Acute Care Nursing
- Adult Health Nursing
- Child Health Nursing
- Family Health Nursing
- Gerontological Nursing
- Health Care Systems Leadership
- Informatics in Nursing
- Nursing Education
- Occupational Health Nursing
- Oncology Nursing
- Psychiatric-Mental Health Nursing
Also offered as:
- Dual Degree M.S./MPH in
  Occupational Health Nursing/Adult Nurse Practitioner
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Lois Gonzalez
Other Contact: Carl Stork
Phone: 813-974-2191
Fax: 813-974-5418
Email: cstorck@hsc.usf.edu
Web Address: http://hsc.usf.edu/nocms/nursing/index.html
Mailing Address:
University of South Florida
Nursing
Nursing Program
12901 Bruce B Downs, MDC22
Tampa, FL 33620

PROGRAM INFORMATION

Applications are reviewed as files are completed. Check published admission dates for a given semester.

The program in nursing leading to a Master of Science degree prepares its graduates for careers in advanced practice, nursing education and nursing administration and informatics. 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 specialty courses and electives.

Successful completion of the master’s program in advanced nursing practice (Adult, Health, Family Health, Child Health, Oncology Nursing, and Psychiatric-Mental Health, Acute Care, Gerontology) meets the eligibility requirements for advanced practice licensure (ARNP-nurse practitioner) in Florida and qualifies students to take the specialty national certification examinations. Successful completion of the master’s program in Healthcare Systems Leadership qualifies graduates to take the American Nurses’ Association Credentialing Center examination in nursing informatics.

Graduate Program Objectives

Graduates of the M.S. in Nursing at the University of South Florida are prepared to:
1. Synthesize knowledge from the natural and social sciences, the arts and humanities and the art of science of nursing in advanced practice nursing.
2. Apply principles of advanced nursing practice to improve health outcome culturally diverse and vulnerable populations.
3. Contribute to the advancement of the profession through research, consultation, collaboration, education, leadership and clinical excellence.
4. Influence the development of health policy through leadership as a clinical expert, client advocate, or professional participant in the health care delivery system.
5. Create a professional practice environment that values and integrates legal/ethical principles in the provision of quality health care.

6. Embrace the pursuit of life-long learning for professional development through participation in formal and informal education.

7. Support excellence in health care delivery by utilizing research findings, participating in the research process and identifying new issues for further investigative development.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of Colleges and Schools; National League for Nursing Accreditation Commission

Major Research Areas:
Research opportunities include: Quality of Life/End of Life; Heart Disease and Treatment, Women, Children, Families and Communities; Health and Services Research, Interdisciplinary Mental Health, and Patient Safety.

ADMISSION INFORMATION

Program Admission Requirements

RN-Bs(nursing)-MS
1. BS Nursing;
2. GRE: 500 Verbal, 500 Quantitative
3. 3.0 GPA;
4. RN Licensure;
5. 3 letters reference;
6. CV;
7. Professional Goals

RN – BS/BS (non-nursing) – MS
1. BS/BA (non-nursing);
2. GRE: 500 Verbal, 500 Quantitative
3. 3.0 GPA;
4. RN Licensure;
5. 3 letters reference;
6. CV;
7. Professional Goals;
8. Successful completion of designated courses: Physical Exam, Community Health Nursing (theory & clinical), Research, & Statistics

RN – MS
1. RN Licensure;
2. Admission to the baccalaureate program;
3. completion of sixty (60) hours of general education requirements;
4. Successful completion of eighteen (18) hours of nursing baccalaureate coursework: Physical Exam, Community Health Nursing (theory & clinical), Research, Leadership/Management, Ed Transitions;
5. GRE: 500 verbal, 500 quantitative
6. 3.0 GPA;
7. 3 letters reference;
8. CV;
9. Profession Goals

Program Admission Deadlines
Fall deadline: June 1
Spring deadline: October 15
Summer deadline: March 1

DEGREE PROGRAM REQUIREMENTS

The M.S. program in nursing requires completion of the credit hours required by the concentration. Academic advisors work with students to design both full-time and part-time program plans in the specialty areas. The curricula for all advanced practice concentrations include the following components: theory-research component, advanced practice component, and specialty core. Students must complete either a thesis or take the Capstone Course: Writing for Publication.

The Master’s Program for advanced practice concentrations is organized in three curriculum components:

1. Theory-Research Component (15 credit hours)
   NGR 6121 Theoretical Basis of Advanced Practice Nursing (3)
   NGR 6080 Family & Population-Based Health Promotion (3)
   NGR 6800 Nursing Research (3)
   NGR 6135 Ethical, Legal & Policy Issues in Advanced Nursing (3)
   NGR 6971 Thesis (3) Or
   NGR 6950 Capstone Course: Writing for Publication (3)

2. Advanced Practice Component (9 credit hours)
   NGR 6140 Pathophysiology for Advanced Practice (3)
   NGR 6199 Pharmacology for Advanced Practice (3)
   NGR 6001 Health Assessment in Advanced Practice (3)

3. Specialty Cores
   Primary Care Advanced Practice - Specialty Core
   Specialty Core (23 -20 credits)
   Primary Care Concentrations:
   NGR 6205 Primary Care: Adolescent/Women (3)
   NGR 6205L PC Practicum: Adolescent/Women (3)
   NGR 6207 Primary Care: Adult (3)
   NGR 6207L PC Practicum: Adult (3)
   NGR 6305 Primary Care: Child (3)
   NGR 6305L PC Practicum: Child (3)
   NGR 6271 Adult Health Management (3)
   NGR 6371 Child Health Management (3)
NGR 6700 Advance Practice Transitions (2)  
NGR 6700L APN Transitions Practicum (3)

**Oncology – Specialty Core**  
NGR 6096 Oncology Nursing Concepts (3)  
NGR 6142 Pathobiology of Neoplasia (3)  
NGR 6207 Primary Care: Adult (3)  
NGR 6947L Practicum I in Advanced Oncology Nursing (3)  
NGR 6948L Practicum II in Advanced Oncology Nursing (3)  
NGR 6949L Practicum III in Advanced Oncology Nursing (3)  
Electives (3)

**Psych/Mental Health – Specialty Core**  
NGR 6500 Theoretical Foundations for Advanced Psychiatric Nursing (3)  
NGR 6501 Psychopathology for Advanced Psychiatric Nursing (3)  
NGR 6502 Treatment Modalities for Advanced Psychiatric Nursing (3)  
NGR 6500L Psychiatric ARNP Practicum: Psychiatric Care Outpatient (3)  
NGR 6501L Psychiatric ARNP Practicum: Psychiatric Care Inpatient (3)  
NGR 6538 Psychopharmacology for Advanced Nursing Practice (2)  
NGR 6700 Advanced Practice Transitions (2)  
NGR 6700L APN Transitions Practicum (3)  
CHOICE  
Primary Care: Adult, Adolescents & Young Adult or Children (3)

**Healthcare Systems Leadership in Nursing**  
The Healthcare Systems Leadership in Nursing program is organized into 2 core components.

1. **Theory-Research Core** (15 credits):  
NGR 6121 Theoretical Basis of Advanced Practice Nursing (3)  
NGR 6080 Family & Population-Based Health Promotion (3)  
NGR 6800 Nursing Research (3)  
NGR 6135 Ethical, Legal, and Policy Issues in Advanced Nursing Practice (3)  
NGR 6971 Thesis (3) OR  
NGR 6950 Capstone Course (3)

2. **Healthcare Systems Leadership Core** (23 credits):  
NGR 6931 Statistics for Nursing Practice & Research (3)  
NGR 6723 Applied Management in Nursing and Healthcare (3)  
NGR 6734 Healthcare Systems Leadership: Seminar (2)  
NGR 6734L Healthcare Systems Leadership: Internship (3)  
PHC 6147 Managing Quality in Health Care (3)  
PHC 6196 Information Systems in Health Care Management (3)  
PHC 6197 Community Health Data Sources and Technology (3)

**Nursing Informatics**  
Nursing Informatics program is organized into two core components.

1. **Theory-Research Core** (15 credits):  
NGR 6121 Theoretical Basis of Advanced Practice Nursing (3)  
NGR 6080 Family & Population-Based Health Promotion (3)  
NGR 6800 Nursing Research (3)  
PHC 6196 Information Systems in Health Care Management (3)

2. **Nursing Informatics Core** (25 credits):  
NGR 5635 Informatics in Nursing and Healthcare (3)  
NGR 6931 Statistics for Nursing Practice (3)  
NGR 6872 Clinical Systems Applications and Management (3)  
NGR 6821 Applied Analysis for Outcomes Research of Large Healthcare Databases (3)  
NGR 6831 Data Analysis for Health Care (3)  
NGR 6734 Healthcare Systems Leadership: Seminar (2)  
NGR 6734L Healthcare Systems Leadership: Internship (3)  
PHC 6147 Managing Quality in Health Care (3)  
PHC 6196 Information Systems in Health Care Management (3)  
PHC 6197 Community Health Data Sources and Technology (3)

**COURSES**  
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION**

**PROGRESSION POLICY**  
USF College of Nursing  

To Be Effective Fall 2004 And Apply To All Graduate Students (Current and New)  

Graduate students must earn the grade of B or higher (B minus is not acceptable) in each required course in their respective nursing program. Graduate students must also maintain an overall average of 3.0 (B) in order to be considered to be “in good standing. “ Students also must meet any special conditions of their admissions. No grade below C will be accepted toward a graduate degree. All grades will be counted in computing the overall grade point average. Students must have an overall GPA of 3.0 at the completion of their respective program, or they will not be awarded a degree from the University of South Florida.

If a student earns a grade below a B 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 in two or more required courses or earns below a B in a required course twice, will be dismissed from the College. The Dean of the College of Nursing, or her designee (Associate Dean of Academic Affairs or the Associate Dean of Doctoral Studies), will notify students who are dismissed, in writing.

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 program, regardless of academic standing in other classes.

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.

Progression Process
Any student who is not in good standing at the end of a semester shall be placed on probation. The College may also place students on probation for other reasons as designated. The Associate Dean for Academic Affairs shall make notification of probation in writing to the student, the student’s program director, and the Student Affairs Committee. The student shall meet with their program coordinator to develop a Probation Plan detailing the plan for removal of probationary status. The Associate Dean for Academic Affairs shall approve the Plan. A copy of the approved Plan will be given to the student and their program coordinator; a written copy will also be placed in the student’s academic record.

At the end of the probationary semester, the program coordinator shall review the student’s progress and compliance with the Probationary Plan, and recommend to the Student Affairs Committee one of the three alternatives: (1) Removal of probation, (2) Continued probation and continuance of the Probation Plan, and (3) Dismissal from the degree program. The Student Affairs committee shall make a recommendation, in writing, to the Associate Dean for Academic Affairs. The Associate Dean shall notify the student in writing of their academic status.

The Dean of the Graduate School, upon recommendation by the Dean of the student’s College, may dismiss the student from a degree-seeking status after one semester of probation. The inability of a Veteran Student to achieve a passing cumulative GPA after two semesters of probationary status will result in termination of benefits.

Approved at March 2003 Faculty Council.
Approved December 15, 2003 Graduate Council
**NURSING SCIENCE**

**Doctor of Philosophy (Ph.D.)**

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**DEGREE INFORMATION**

- **Degree Offered:** Doctor of Philosophy (Ph.D.)
- **Degree Program:** Nursing Science
- **Concentrations:** n/a
- **Program Status:** Active
- **Program Level:** Doctoral

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**CONTACT INFORMATION**

- **Program Director:** Mary Evans
- **Other Contact:** Cecile Lengacher
- **Phone:** 813-974-9112
- **Fax:** 813-974-5418
- **Email:** cstorck@hsc.usf.edu
- **Web Address:** [http://hsc.usf.edu/nocms/nursing/index.html](http://hsc.usf.edu/nocms/nursing/index.html)
- **Mailing Address:**
  University of South Florida
  Nursing
  Nursing Science Program
  12901 Bruce B Downs, MDC22
  Tampa, FL 33620

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**PROGRAM INFORMATION**

Applications are reviewed as files are completed. Check published admission dates for a given semester.

The Ph.D. prepares scholars to:
1. Generate and disseminate knowledge through independent and/or collaborative efforts;
2. Conduct intra/interdisciplinary research;
3. Assume leadership roles in nursing education and practice;
4. Influence the delivery of health care services, especially for high risk and medically underserved groups;
5. Educate future generations of nurses for health care delivery in the 21st Century through the use of innovative intra/interdisciplinary educational approaches.

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

**Major Research Areas:**
Research opportunities include: Quality of Life/End of Life; Heart Disease and Treatment; Women, Children, Families and Communities; Health and Services research, Interdisciplinary Mental Health, and Patient Safety.

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**ADMISSION INFORMATION**

**Program Admission Requirements**

**BS (Nursing) – Ph.D.**
1. MS Nursing;
2. GRE: 550 Verbal; 550 Quantitative
3. 3.0 GPA;
4. RN Licensure;
5. 3 letters reference;
6. CV;
7. Professional Goals;
8. Evidence of Commitment to Nursing Scholarship;
9. Potential;
10. Experience

**M.S. (nursing) – Ph.D.**
1. BS Nursing;
2. GRE: 550 Verbal; 550 Quantitative
3. 3.0 GPA;
4. RN Licensure;
5. 3 letters reference;
6. CV;
7. Professional Goals;
8. Evidence of Commitment to Nursing Scholarship;
9. Potential;
10. Experience

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**DEGREE PROGRAM REQUIREMENTS**

There are two programs of study that lead to the Ph.D. in Nursing.

**MS (Nursing) – Ph.D.**
A minimum of 60 hours post-master’s is required. The program can be completed in three to four years by full-time students and five or more years for part-time students. Specific program requirements are determined on an individual basis by the student’s supervisory committee.

**Knowledge Building Core (Required)**
NGR 7123 Theory Development in Nursing (3)
NGR 7124  Advances in Nursing Science (3)
NGR 7705  Academic Citizenship (1)
NGR 7816  Research Designs and Methods in Nursing (3)
NGR 6931  Statistics for Nursing Practice (3)
NGR 7841  Statistical Methods in Nursing Research I (3)
NGR 7842  Statistical Methods in Nursing Research II (3)
NGR 7815  Qualitative Methods in Nursing Research (3)
NGR 7823  Psychometrics and Measurement for Nursing Research (3)
NGR 7941  Nursing Research Pro Seminar (3)
NGR 7911  Esthetics and Ethics in Nursing and Health Care (3)
NGR 7912  Health Policy Issues in Nursing and Health Care (3)

Satisfactory completion of the Knowledge Building Core required courses prepares students to successfully complete the dissertation research.

Cognate (12-15 Credits)
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, administration, applied anthropology, educational measurement or a nursing specialty.

Electives (3-6 Credits) Students must complete 3-6 elective credits. Three credits must be in research methods.

Qualifying Examinations:
The qualifying examination is to be completed as soon as the majority of core and minor 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.

Components of the qualifying examination for the College of Nursing
Written component: The written component of the qualifying examination consists of two parts:
   a. Completion and submission of a manuscript to a refereed journal for publication.
   b. Preparation and submission of a research grant application for funding to an appropriate agency.
Oral Examination Component: An oral examination component will be used to clarify and verify that the student has met the written components of the qualifying examination and will be used to formally admit the student to candidacy.

Dissertation (12-24 Credits)
Students must complete and successfully defend a dissertation.

B.S. (Nursing) - Ph.D.
A minimum of 96 hours post-baccalaureate is required. The program is designed as a full-time four-year course of study.

Knowledge Building Core (Required)
NGR 6800  Nursing Research (3)
NGR 6121  Theoretical Basis of Advanced Practice Nursing (3)
NGR 6140  Pathophysiology for Advanced Practice Nursing (3)
NGR 6001  Health Assessment for Advanced Practice (3)
NGR 6199  Pharmacology for Advanced Nursing Practice (3)
NGR 6931  Statistics for Nursing Practice (3)
NGR 6950  Capstone: Writing for Publication
NGR 7124  Advances in Nursing Science (3)
NGR 7816  Research Designs and Methods in Nursing (3)
NGR 7841  Statistical Methods in Nursing Research I (3)
NGR 7842  Statistical Methods in Nursing Research II (3)
NGR 7815  Qualitative Methods in Nursing Research (3)
NGR 7941  Nursing Research Pro Seminar (3)
NGR 7123  Theory Development in Nursing (3)
NGR 7823  Psychometrics and Measurement for Nursing Research (3)
NGR 7911  Esthetics and Ethics in Nursing and Health Care (3)
NGR 7912  Health Policy Issues in Nursing and Health Care (3)
NGR 7123  Theory Development in Nursing (3)
NGR 6710  Principles of Nursing Education (3)
NGR 6822  Measurement for Nursing Education and Research (3)
NGR 6791  Academic Nursing Practicum (3)

Nursing Specialty (CHOICE) – 12 Credits
Psychiatric Mental Health
Adult Health
Child Health
Community/Public Health
Oncology
Informatics
Health Systems Leadership

Cognate 12-15 Credits
Students select a cognate area of study 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 minor might be organizational administration, health policy, physiology, cognitive psychology, organizational psychology, gerontology, epidemiology, biostatistics,
administration, applied anthropology, educational measurement or a nursing specialty.

**Electives (3-6 Credit Hours)** Students must complete 3-6 elective credits. Three credits must be in research methods.

**Qualifying Examinations:**
The qualifying examination is to be completed as soon as the majority of core and minor 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.

Components of the qualifying examination for the College of Nursing

  - **Written component:** The written component of the qualifying examination consists of two parts:
    - a. Completion and submission of a manuscript to a refereed journal for publication.
    - b. Preparation and submission of a research grant application for funding to an appropriate agency.

  - **Oral Examination Component:** An oral examination component will be used to clarify and verify that the student has met the written components of the qualifying examination and will be used to formally admit the student to candidacy.

**Dissertation 12-24 Credits**
Students complete and successfully defend a dissertation.

**COURSES**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
Section 22

College of Public Health

University of South Florida
College of Public Health
13201 Bruce B. Downs Blvd MDC56
Tampa, FL 33612

Web address: http://www.publichealth.usf.edu
Email: advisor@hsc.usf.edu
Phone: 813-974-7390
Fax: 813-974-8121

College Dean: Donna Petersen
Associate Dean: Karen Liller
Graduate Coordinator: Karen Liller

Accreditation:
The Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education for Public Health and the MSPH in Industrial Hygiene is accredited by the Accreditation Commission of the Accreditation Board for Engineering and Technology.

Mission Statement:
The College of Public Health's mission is to promote public health through research, education and service. Goals include building strong focused research programs that reward and encourage scholarship and creative activities, continual improvement of academic programs and student centered learning, a college culture that supports our mission, vision, and values, a strong sustainable infrastructure, and active service and meaningful community engagement.

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 is open to students from diverse academic disciplines including Health Sciences, Education, Business, Communication, Mathematics, Social and Natural Sciences. Graduates are prepared for interdisciplinary focused public health careers as administrators, managers, educators, researchers, and direct service providers.

The College's five departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, Global Health, and Health Policy and Management. The program in Public Health Practice is College-wide.

Core content is directly related to addressing and meeting public health issues. Off campus or alternate calendar programs may reflect additional offerings to meet specific needs. The College accommodates the working professional as well as the full-time student by offering late afternoon and evening classes, online delivery of courses and graduate certificates, and a executive MPH for experienced health professionals.

The College hosts several College and Departmental based centers that augment the learning opportunities for students, including the Center for Biological Defense, C.H.A.R.T. India (Center for Health, HIV/AIDS Research, and Training in India), Center for Leadership in Public Health Practice, Center for Positive Health, the Florida Health Information Center, the Global Center for Disaster Management and Humanitarian Action, The James and Jennifer Harrell Center for the Study of Family Violence, and the Lawton and Rhea Chiles Center for Healthy Mothers and Babies, and the Florida Prevention Research Center.
Major Research Areas:
Faculty major research areas are quite varied and may be viewed on-line at http://publichealth.usf.edu/facultyaffaris.facultyprofile.html

Types of Degrees Offered:
Master of Health Administration (MHA)
Master of Public Health (MPH)
Master of Science in Public Health (MSPH)
Doctor of Philosophy (Ph.D.)

Name of Programs Offered:
Health Administration - MHA
Public Health - MPH, MSPH, Ph.D.

Dual Degrees Offered:
Public Health and Anthropology (MPH/MA or Ph.D.)
Public Health and Medicine (MPH/M.D.) for already enrolled USF College of Medicine students.
Public Health and Social Work (MPH/MSW)
Public Health (Occupational Health) and Nursing/Adult Nurse Practitioner (MPH/MS)
Public Health and Biochemistry/Molecular Biology (MPH/Ph.D.)

Concentrations:
Accelerated Health Education (MPH) Not Active
Behavioral Health (MPH, MSPH, Ph.D.)
Bioinformatics (MSPH) 1
Biostatistics (MPH, MSPH, Ph.D.)
Community and Family Health (Ph.D.) (Focus Areas Include: Behavioral Health, Maternal and Child Health, Health Education, Socio-Health Sciences)
Environmental and Occupational Health (Ph.D.)
Environmental Health (MPH, MSPH)
Epidemiology (MPH, MSPH, Ph.D.)
Epidemiology and Biostatistics (Ph.D.)
Executive Program for Health Professionals (MPH)
Executive Program for MBA Physicians (MPH)-Not Active
Global Health (MPH) 2
Global Health Informatics (MPH) 3
Health Care Organizations and Management (MPH, MSPH, Ph.D.)
Health Policies and Programs (MPH, MSPH, Ph.D.)
Health Policy and Management (Ph.D.)
Industrial Hygiene (MSPH, Ph.D.)
International Health Management (MPH, MSPH, Ph.D.)
Managed Care (MPH) Not Active
Maternal and Child Health (MPH, MSPH, Ph.D.)
Occupational Health (MPH 4, MSPH 5)

Occupational Health for Health Professionals (Ph.D.)
Occupational Medicine Residency (MPH, MSPH)
Public Health Education (MPH 6, MSPH, Ph.D.)
Public Health Practice Program (MPH 7, 8)
Safety Management (MPH)
Social and Behavioral Science (MSPH, Ph.D.)
Sociobehavioral Health Sciences (MPH)
Toxicology (MPH, MSPH, Ph.D.)
Tropical/Communicable Diseases (MPH, MSPH, Ph.D.)

1 Offered jointly with the International Institute of Information Technology (I2 IT) in India
2 Master’s International Peace Corps Program available
3 Offered jointly with the International Institute of Information Technology (I2 IT) in India
4 Only available to dual M.S. Adult Nursing students
5 Only for M.D.s in the Occupational Medicine Program
6 Accelerated entry program available
7 Requires 3 years of health-related experience
8 Offered (1) executive program and (2) online

Graduate Certificates Offered:
Clinical Epidemiology
Disaster Management (fully on-line program)
Infection Control
Health Management and Leadership
Safety Management
Social Marketing
Violence and Injury: Prevention and Intervention
Interdisciplinary Women’s Health

COLLEGE REQUIREMENTS

Attendance Policy
It is the policy of the College of Public Health that a student will not be automatically dropped if they do not attend the first class of each semester for graduate classes only. However, it is the responsibility of the student to notify the course instructor if they cannot attend the first class.

Degree Requirements: a detailed description of each degree and its requirements can be found on the website listed.

Master of Health Administration (MHA):
http://publichealth.usf.edu/mha.html
All MHA students are required to successfully complete a total of 54 credits plus field experience:

- Five college core courses - 15 credits:
  Biostatistics I, Epidemiology, Principles of
Health Policy and Management; Environmental and Occupational Health, and Social and Behavioral Sciences Applied to Health

- Management and policy courses - 21 credits
- Finance, Economic and Quantitative Courses - 16 credits
- Health Plans – 3 credits
- Capstone Course - 2 (substitutes for comprehensive examination)
- Field Experience - 1 - 6 credits
- Special Projects - 3 credits

Master of Public Health (MPH):
[http://publichealth.usf.edu/mph.html](http://publichealth.usf.edu/mph.html)

All MPH students are required to successfully complete a minimum of 39 credits plus field experience:

- Five college core courses - 15 credits: Biostatistics I, Epidemiology, Principles of Health Policy and Management; Environmental and Occupational Health, and Social and Behavioral Sciences Applied to Health
- Concentration courses in specialty areas - 12 credit minimum, depending on department requirements
- Comprehensive Exam and/or capstone course
- Field Experience - 1 - 12 credits
- Special Projects - 3 credits
- Electives (variable)

Master of Science in Public Health (MSPH):
[http://publichealth.usf.edu/msph.html](http://publichealth.usf.edu/msph.html)

All MSPH students are required to successfully complete a minimum of 40 credits:

- 9 credits of college core courses including Biostatistics I and Epidemiology, plus one other core courses approved by the academic advisor
- Biostatistics II
- Courses in specialty areas as designated by advisory committee - 12 credits minimum
- Research Methods as determined by advisory committee
- Comprehensive Exam while enrolled for a minimum of 2 credits
- Thesis for a minimum of 6 credits
- Electives (variable)

Doctor of Philosophy (Ph.D.):
[http://publichealth.usf.edu/phd.html](http://publichealth.usf.edu/phd.html)

The Doctor of Philosophy (Ph.D.) is granted in recognition of high attainment in a specified field of knowledge. It is a research degree and is not conferred solely upon the earning of credit or the completion of courses. It is granted after the student has shown proficiency and distinctive achievement in specific field, has demonstrated the ability to do original, independent investigation, and has presented these findings with a high degree of literacy skills in a dissertation. This degree requires a minimum of 90 credits beyond the baccalaureate degree. Doctoral programs leading to Ph.D. are offered in all five departments and the five core areas of public health. Students have an opportunity to specialize within their department.

The following is an excerpted from the COPH Catalog and is located at [http://publichealth.usf.edu/phd.html](http://publichealth.usf.edu/phd.html)

Each department has written specific guidelines. Students and their major advisor jointly create a written plan to meet these competencies via plan of study, research experience, departmental and professional activities, and other appropriate methods.

Ph.D. Course of Study

The student's course of study will include the following:

**Prerequisites:**

A minimum of Biostatistics I, Epidemiology, and one other selected college core courses are required by all students who do not have a master's degree in public health. The doctoral committee or the department may require other 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.

**Required Coursework:**

The courses and number of credit hours required are defined by the department and the doctoral committee and include coursework from another department or college. There must be minimum of 13 credits at the 7000 level. Generally, the doctoral degree requires a minimum of 90 credits beyond the bachelor's degree. Departments determine the number of credits accepted from previous master(s) degree. All doctoral students take a minimum of
three semesters (one credit each semester) of college wide Advanced Interdisciplinary Seminar in Public Health (PHC 7931).

**Tools of Research:**
Departmental Guidelines will address whether they are required for doctoral students within that department (consistency within the department required). The student must complete a minimum of two of the "Tools of Research" options designated by the department, and approved by the doctoral committee before the student is eligible to take the doctoral qualifying examination.

**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 written comprehensive qualifying examination covering the subject matter in the major and related fields.

**Dissertation:**
All students must follow the University's "Guidelines for Dissertations and Theses."

**OTHER INFORMATION**

**Comprehensive Examination (MHA, MPH, MSPH)**
The Comprehensive Examination is a requirement for all students seeking an MPH or MSPH degree in the College of Public Health. (A capstone course substitutes for the comprehensive examination for the MHA degree.)

The comprehensive examination will focus on the student's concentration and the core public health courses. Each department has detailed written guidelines which are listed on department websites. Additional information may be found at [http://publichealth.usf.edu/pdf/Academic%20Policies.pdf](http://publichealth.usf.edu/pdf/Academic%20Policies.pdf)

**Field Experience**
All students in the MHA, MPH, and the MSPH in Public Health with a concentration in Industrial Hygiene are required to complete a field experience varies. The type and length of the field experience. Each department has written guidelines and a field experience website is available to assist students in this portion of their program at [http://publichealth.usf.edu/academiaffairs/fe/](http://publichealth.usf.edu/academiaffairs/fe/)

**Special Project**
The special project is an in-depth study of a selected issue in public health. A topic will be selected according to student's needs and interests.

**Thesis (MSPH)**
MSPH students MUST complete a Thesis.

**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 3.0 or better in their upper division coursework, must be degree-seeking and enrolled full time. Additional information may be found at [http://publichealth.usf.edu/financial.html](http://publichealth.usf.edu/financial.html)

All positions are posted at [http://publichealth.usf.edu/jobpostings.html](http://publichealth.usf.edu/jobpostings.html)

**Scholarships and Aid**
Sources of aid are limited to degree-seeking students only and include the following which are detailed at [http://www.publichealth.usf.edu/FinAid.html](http://www.publichealth.usf.edu/FinAid.html): several named fellowships and scholarships, Florida Environmental Health Association Scholarship, Florida Public Health Association Scholarship, Maternal and Child Health Traineeships and MCH Epidemiology Traineeships, among others.

**Certificate Programs:** (for information click on the graduate certificates at [http://www.outreach.usf.edu/gradcerts/](http://www.outreach.usf.edu/gradcerts/))

Clinical Epidemiology
Disaster Management
Health Management and Leadership
Safety Management
Infection Control
Social Marketing
Violence and Injury: Prevention and Intervention
Interdisiplinary Women’s Health
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

**EXAMPLE OF PROGRAM PAGE**

- **Black** denotes degree
- **Green** denotes Program (or Major)
- **Blue** denotes Concentration (or area of specialization)

**HEALTH ADMINISTRATION**

Master of Health Administration (MHA)

**DEGREE INFORMATION**

- Degree Offered: Master of Health Administration (MHA).
- Degree Program: Health Administration
- Concentration: n/a

**EXAMPLE OF CONCENTRATION PAGE**

**ADULT EDUCATION**

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction

**DEGREE INFORMATION**

- Degree Offered: Doctor of Philosophy - Ph.D.
- Degree Program: Curriculum and Instruction
- Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
HEALTH ADMINISTRATION

Master of Health Administration (MHA)

DEGREE INFORMATION

Degree Offered: Master of Health Administration (MHA)
Degree Program: Health Administration
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Barbara Orban
Other Contact: Magdalene Argiry
Phone: 813-974-6505
Fax: 813-974-8121
Email: advisor@hsc.usf.edu
Web Address: http://www.publichealth.usf.edu/mha.html
Mailing Address:
University of South Florida
MHA Program
College of Public Health
13201 Bruce B. Downs Blvd., MDC056
Tampa, FL 33612

PROGRAM INFORMATION

The MHA program prepares students for private and public sector leadership positions. In addition to the five core areas of public health, the curriculum helps students develop skills and knowledge in basic business disciplines with application to health services; a clinical and community perspective and professional skills. Students develop an understanding of organizational models and management principles applied to health settings; health care financial management and economics; quality and performance improvement; health policy and policy analysis; strategic planning and marketing; and health law and ethics.

Master of Health Administration graduates will be able to:

* Assess the health care system in the United States, including the role of the public health disciplines;

* Demonstrate ability to use analytic and decision-making skills in accounting, finance, health economics, quantitative methods, and policy analysis;

* Apply management, leadership and performance improvement theories and principles in solving related health services problems;

* Analyze ethical issues and implications of cultural diversity in health policy and management;

* Demonstrate ability to utilize knowledge of information systems, health law, strategic planning, and marketing to advance health services delivery and outcomes;

* Develop interpersonal and communication skills; and

* Apply critical thinking skills and knowledge to health management cases and to a health care or related organization.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health.

Major Research Areas:
Health care 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.

ADMISSION INFORMATION

Program Admission Requirements
1) Public health course prerequisites:
   a) College requires HSC 4554 Survey of Human Diseases or comparable course for students who do not have public health or biology courses or experience.
   b) Suggested/preferred undergraduate majors: Life sciences, social sciences, business, or health professions.
c) Prerequisite undergraduate courses: Microeconomics.
2) Work experience: Preferred, but not required.
3) Minimum undergrad GPA: 3.0 upper division (some exceptions made if GRE exceeds 1000).
4) Verbal GRE Score: 500 minimum with a total verbal and quantitative score of 1000.
5) Quantitative GRE Score: 450 minimum with a total verbal and quantitative score of 1000.

Program Admission Deadlines
Public Health has rolling admissions and no set deadline. A minimum of 6 weeks is necessary after a completed application is received in order for the application to be fully processed.

DEGREE PROGRAM REQUIREMENTS

Curriculum or Plan of Study

Management and Policy (21)
PHC 6102 Principles of Health Policy and Management (3)
PHC 6180 Health Services Management (3)
PHC 6420 Health Care Law, Regulation and Ethics (3)
PHC 6148 Strategic Planning and Healthcare Marketing (3)
PHC 6181 Organizational Behavior in Health Services (3)
PHC 6196 Information Systems in Health Care Management (3)
PHC 6151 Health Policy and Politics (3)

Finance, Economics and Quantitative (16)
ACG 6025 Financial Accounting for Managers (2)
ACG 6075 Management Accounting and Control (2)
PHC 6430 Health Economics I (3)
PHC 6050 Biostatistics I (3)
PHC 6161 Health Care Financial Applications (3)

PHC 6191 Quantitative Analysis in Health Care Management (3)

Health Plans Elective (choose one) (3)
PHC 6435 Economics of Health Insurance (3)
PHC 6158 Managed Care (3)

Health and Communities (9)
PHC 6000 Epidemiology (3)
PHC 6357 Environmental and Occupational Health (3)
PHC 6410 Social and Behavioral Sciences Applied to Health (3)

Culminating Experiences

PHC 6945 Supervised Field Experience
*Students with little or no professional experience: 3 hours minimum;

*Students with relevant professional experience: 1-3 hours minimum;

*Students with substantial work experience can negotiate a reduced number of hours with their advisor (e.g., 1 or 2 hours) if the student has meaningful experience (involving decision-making) in a health care or related organization.

PHC 6977 Special Project (3)
PHC 6183 Advanced Seminar in Health Care Management (2): Case-based capstone course that includes the final comprehensive exam.

Total credits: 54 plus field experience

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
PUBLIC HEALTH

Master of Public Health (MPH)

DEGREE INFORMATION

Degree Offered: Master of Public Health (MPH)
Degree Program: Public Health
Concentrations: See list below in Program Information. Detailed descriptions are available at: http://publichealth.usf.edu/programs_offered.html
Dual Degrees Offered: See list below in Program Information.
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Karen Liller
Other Contact: Magdalene Argiry
Phone: 813-974-6505
Fax: 813-974-8121
Email: advisor@hsc.usf.edu
Web Address: www.publichealth.usf.edu

Mailing Address:
University of South Florida
College of Public Health
13201 Bruce B. Downs Boulevard, MDC056
Tampa, FL 33612

PROGRAM INFORMATION

Concentrations offered under the MPH:
Accelerated Health Education
Behavioral Health
Biostatistics
Environmental Health
Epidemiology
Executive Program for Health Professionals
Executive Program for MBA Physicians - Not Active
Global Health
Global Health Informatics2
Health Care Organizations and Management
Health Policies and Programs
International Health Management Not Active
Managed Care
Maternal and Child Health
Occupational Health3
Occupational Medicine Residency
Public Health Education4
Public Health Practice5, 6
Safety Management
Sociobehavioral Health Sciences
Toxicology
Tropical/Communicable Diseases

Dual Degrees Offered:
Public Health and Anthropology (MPH with MA or Ph.D.) offered in the following concentrations:
- Epidemiology
- Global Health
- Environmental Health
- Tropical /Communicable Disease
- Public Health Education
- Maternal and Child Health
- Health Care Organizations and Management

Public Health and Medicine (MPH / M.D.) for already enrolled USF College of Medicine Students

Public Health and Social Work (MPH / MSW)
- Behavioral Health
- Maternal and Child Health

Public Health (Occupational Health) and Nursing / Adult Nurse Practitioner (MPH / MS)

Public Health and Biochemistry / Molecular Biology (MPH / Ph.D.) offered in the following concentrations:
- Epidemiology
- Environmental Health
- Toxicology and Risk Assessment
- Tropical/Communicable Disease

1Master’s International Peace Corps program available
2Offered jointly with the International Institute of Information Technology (IIIT) in India
3Only available to dual MS Adult Nursing Students
4Accelerated entry program available
5Requires 3 years of health-related experience
6Offered (1) executive program and (2) online
Program Information
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.

The College's five departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, Global Health, and Health Policy and Management. In addition, Public Health Practice is a college-wide program.

Core content is directly related to addressing and meeting public health issues.

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 MPH for experienced Health Care professionals.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health and the Accreditation Board for Engineering and Technology.

Major Research Areas:
Faculty major research areas are listed at: http://publichealth.usf.edu/facultyaffairs/facultyprofile.html

Community and Family Health
http://publichealth.usf.edu/cfh/
Adolescent health risk taking behavior, Community-based prevention marketing, Reproductive and women’s health, Health literacy, Health issues of developing countries, Family violence, Injury control and prevention, Social determinants of health, Aging and public health.

Environmental and Occupational Health
http://publichealth.usf.edu/eh/
Environmental and occupational toxicology and health risk assessment, Ergonomics and occupational heat stress, Occupational and environmental lung disease, inflammation and asthma, Environmental pollution assessment and modeling, bio-monitoring and management.

Epidemiology and Biostatistics
http://publichealth.usf.edu/epb/
Epidemiology of dementia and Alzheimer’s disease, Aging and occupational epidemiology, Cardiovascular disease epidemiology, Social epidemiology and public health geography, Cross-cultural studies, Cancer epidemiology, Perinatal epidemiology, Sleep disorders, Injury epidemiology, Osteoporosis and falls in aging population, Infectious disease epidemiology, Epidemiology of HIV/AIDS, Prevention science and prevention methodology, including design and analysis of preventive field trials, Prevention of conduct disorder and aggression, depression, and suicide and drug use/abuse, Analysis of behavior observation data, Multi-level and mixture modeling, Environmental statistics, Health outcome evaluation and medical surveillance, Detection of bioterrorism, Small area estimation, Missing data methods, Growth curve modeling, Risk assessment, and Bayesian inference.

Global Health
http://publichealth.usf.edu/gh/
Surveillance of intestinal parasitic infections; Realtime syndromic surveillance of bioterrorist event; Biosafety of bloodborne pathogens; Serology of arboviruses; pathophysiology of arboviral infections; Health promotion against violence; Health promotion and education in HIV/AIDS; Surveillance of waterborne infections; Development of solar latrines for helminth eradication; Ecodynamics and environmental impact on health.

Health Policy and Management
http://publichealth.usf.edu/hpm/
Health care 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.

ADMISSION INFORMATION

Program Admission Requirements
All Applicants must take the Graduate Record Exam (except as noted below) or an equivalent taken within five years preceding application unless noted as exceptions and must meet the following criteria:

1. shall have earned an undergraduate degree from an accredited institution;
2. shall have earned a "B" average (3.0 on a 4 point scale) or better in all work attempted while registered as an upper division student working toward a baccalaureate degree; OR
3. shall have a total Verbal and Quantitative Graduate Record Exam (GRE) General test score of 1000 or higher for the MPH.
4. MSPH and MHA applicants must submit a minimum GRE (quantitative and verbal) score of 1000 and a grade point average of 3.0.
5. In lieu of the GRE, only applicants to the Department of Health Policy and Management may submit a minimum GMAT score of 500 for the MPH, MSPH and MHA.

6. An MCAT score may be submitted in lieu of the GRE. A mean of 8 is required.

Meeting of these criteria per se shall not be the only basis for admission.

Program Admission Deadlines
Public Health has rolling admissions and no set deadline. A minimum of six (6) weeks is necessary after a completed application is received in order for the application to be fully processed.

DEGREE PROGRAM REQUIREMENTS

For information on program requirements, refer to the college website: www.publichealth.usf.edu

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Certificate Programs: (for information click on the graduate certificates at http://www.outreach.usf.edu/gradcerts/)

- Clinical Epidemiology
- Disaster Management
- Health Management and Leadership
- Safety Management
- Infection Control
- Social Marketing
- Violence and Injury: Prevention and Intervention
- Interdisciplinary Women’s Health
PUBLIC HEALTH

Master of Science in Public Health (MSPH)

DEGREE INFORMATION

Degree Offered: Master of Science in Public Health (MSPH)
Degree Program: Public Health
Concentrations: See list below in Program Information. Detailed descriptions are available at: http://publichealth.usf.edu/programs_offered.html
Dual Degrees Offered: See list below in Program Information.
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Karen Liller
Other Contact: Magdalene Argiry
Phone: 813-974-6505
Fax: 813-974-8121
Email: advisor@hsc.usf.edu
Web Address: www.publichealth.usf.edu

Mailing Address:
University of South Florida
College of Public Health
13201 Bruce B. Downs Boulevard, MDC056
Tampa, FL 33612

PROGRAM INFORMATION

Concentrations:
Behavioral Health
Bioinformatics\(^1\)
Biostatistics
Environmental Health
Epidemiology
Health Care Organizations and Management
Health Policies and Programs
Industrial Hygiene
International Health Management Not Active
Managed Care Not Active
Maternal and Child Health
Occupational Health
Occupational Medicine Residency
Public Health Education
Social and Behavioral Science
Toxicology
Tropical/Communicable Diseases

\(^1\) Offered jointly with the International Institute of Information Technology (I2IT) in India.

\(^2\) Only for M.D.s in the Occupational Medicine program

Program Information

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.

The College’s five departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, Global Health, and Health Policy and Management. Public Health Practice is a college-wide program.

Core content is directly related to addressing and meeting public health issues.

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 certificate programs, and a professional MPH for experienced Health Care professionals.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health and the Accreditation Board for Engineering and Technology.
Major Research Areas:
Faculty major research areas are listed at:
http://publichealth.usf.edu/facultyaffairs/facultyprofile.html

Community & Family Health
http://publichealth.usf.edu/cfh/
Adolescent health risk taking behavior, Community-based prevention marketing, Reproductive and women’s health, Health literacy, Health issues of developing countries, Family violence, Injury control and prevention, Social determinants of health, Aging and public health.

Environmental & Occupational Health
http://publichealth.usf.edu/eoh/
Environmental and occupational toxicology and health risk assessment, Ergonomics and occupational heat stress, Occupational and environmental lung disease, inflammation and asthma, Environmental pollution assessment and modeling, bio-monitoring and management.

Epidemiology & Biostatistics
http://publichealth.usf.edu/epb/
Epidemiology of dementia and Alzheimer’s disease, Aging and occupational epidemiology, Cardiovascular disease epidemiology, Social epidemiology and public health geography, Cross-cultural studies, Cancer epidemiology, Perinatal epidemiology, Sleep disorders, Injury epidemiology, Osteoporosis and falls in aging population, Infectious disease epidemiology, Epidemiology of HIV/AIDS, Prevention Science and prevention methodology, including design and analysis of preventive field trials, Prevention of conduct disorder and aggression, depression, and suicide and drug use/abuse, Analysis of behavior observation data, Multi-level and mixture modeling, Environmental statistics, Health outcome evaluation and medical surveillance, Detection of bioterrorism, Small area estimation, Missing data methods, Growth curve modeling, Risk assessment, and Bayesian inference.

Global Health
Surveillance of intestinal parasitic infections; Realtime syndromic surveillance of bioterrorist event; Biosafety of bloodborne pathogens; Serology of arboviruses; pathophysiology of arboviral infections; Health promotion against violence; Health promotion and education in HIV/AIDS; Surveillance of waterborne infections; Development of solar latrines for helminth eradication; Ecodynamics and environmental impact on health.

Health Policy and Management
http://publichealth.usf.edu/hpm/
Health care 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.

ADMISSION INFORMATION

Program Admission Requirements
All Applicants must take the Graduate Record Exam (except as noted below) or an equivalent taken within five years preceding application unless noted as exceptions and must meet the following criteria:

1. shall have earned an undergraduate degree from an accredited institution; shall have earned a "B" average (3.0 on a 4 point scale) or better in all work attempted while registered as an upper division student working toward a baccalaureate degree; OR,

2. shall have a total Verbal and Quantitative Graduate Record Exam (GRE) General test score of 1000 or higher for the MPH.

3. MSPH and MHA applicants must submit a minimum GRE (quantitative and verbal) score of 1000 and a grade point average of 3.0.

4. In lieu of the GRE, only applicants to the Department of Health Policy and Management may submit a minimum GMAT score of 500 for the MPH, MSPH and MHA.

5. An MCAT score may be submitted in lieu of the GRE. A mean of 8 is required.

Meeting of these criteria per se shall not be the only basis for admission.

Program Admission Deadlines
Public Health has rolling admissions and no set deadline. A minimum of 6 weeks is necessary after a completed application is received in order for the application to be fully processed.

DEGREE PROGRAM REQUIREMENTS
For information on program requirements, refer to the college website: www.publichealth.usf.edu

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Certificate Programs: (for information click on the graduate certificates at http://www.outreach.usf.edu/gradcerts/)

Clinical Epidemiology
Disaster Management
Health Management and Leadership
Safety Management
Infection Control
Social Marketing
Violence and Injury: Prevention and Intervention
Interdisciplinary Women’s Health
PUBLIC HEALTH

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Public Health
Concentrations: See list below in Program Information. Detailed descriptions are available at: http://publichealth.usf.edu/programs_offered.html
Program Status: Active
Program Level: Doctoral

PROGRAM INFORMATION

Concentrations:
Behavioral Health
Biostatistics
Community and Family Health (Focus Areas Include: Behavioral Health, Maternal and Child Health, Health Education, Socio-health Sciences)
Environmental and Occupational Health
Epidemiology
Epidemiology and Biostatistics
Health Care Organizations and Management
Health Policies and Programs
Health Policy and Management
Industrial Hygiene
International Health Management Not Active
Maternal and Child Health
Occupational Health for Health Professionals
Public Health Education
Social and Behavioral Science
Toxicology
Tropical/Communicable Diseases

Program Information
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’s five departments are: Community and Family Health, Environmental and Occupational Health, Epidemiology and Biostatistics, Global Health, and Health Policy and Management. Core content is directly related to addressing and meeting public health issues.

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 certificate programs, and a professional MPH for experienced Health Care professionals.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools. The College is fully accredited by the Council on Education in Public Health.

Major Research Areas:
Faculty major research areas are listed at: http://publichealth.usf.edu/facultyaffairs/facultyprofile.html

Community and Family Health
http://publichealth.usf.edu/cfh/
Adolescent health risk taking behavior, Community-based prevention marketing, Reproductive and women’s health, Health literacy, Health issues of developing countries, Family violence, Injury control and prevention, Social determinants of health, Aging and public health.
Environmental and Occupational Health

http://publichealth.usf.edu/eoh/

Environmental and occupational toxicology and health risk assessment, Ergonomics and occupational heat stress, Occupational and environmental lung disease, inflammation and asthma, Environmental pollution assessment and modeling, bio-monitoring and management.

Epidemiology and Biostatistics –

http://publichealth.usf.edu/epb/

Epidemiology of dementia and Alzheimer’s disease, Aging and occupational epidemiology, Cardiovascular disease epidemiology, Social epidemiology and public health geography, Cross-cultural studies, Cancer epidemiology, Perinatal epidemiology, Sleep disorders, Injury epidemiology, Osteoporosis and falls in aging population, Infectious disease epidemiology, Epidemiology of HIV/AIDS, Prevention science and prevention methodology, including design and analysis of preventive field trials, Prevention of conduct disorder and aggression, depression, and suicide and drug use/abuse, Analysis of behavior observation data, Multi-level and mixture modeling, Environmental statistics, Health outcome evaluation and medical surveillance, Detection of Bioterrorism, Small area estimation, Missing data methods, Growth curve modeling, Risk assessment, and Bayesian inference.

Global Health

Surveillance of intestinal parasitic infections; Realtime syndromic surveillance of bioterrorist event; Biosafety of bloodborne pathogens; Serology of arboviruses; pathophysiology of arboviral infections; Health promotion against violence; Health promotion and education in HIV/AIDS; Surveillance of waterborne infections; Development of solar latrines for helminth eradication; Ecodynamics and environmental impact on health.

Health Policy and Management

http://publichealth.usf.edu/hpm/

Health care 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.

ADMISSION INFORMATION

Program Admission Requirements

Applicants to the doctoral program 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.

1. A score of 1100 or better on the GRE (verbal and quantitative) taken within 5 years preceding the application and a grade point average of 3.0 are needed to be considered.

2. A score of 600 or higher on the GMAT for applicants to only the Health Policy and Management Department will be considered.

3. Each applicant must submit evidence of written/analytical skills to the College of Public Health which will take two-forms:
   a. 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
   b. A detailed personal statement of less than five pages that describes why the applicant wishes to obtain a Ph.D. degree in Public Health.

4. Applicants seeking consideration to the doctoral program must possess the MPH, M.S.P.H., or equivalent. Those who hold other graduate degrees will be considered, but as a prerequisite, they must complete the Epidemiology and Biostatistics core courses, one additional core course, and other courses as required and approved by their advisory committee.

5. Each applicant must submit at least two formal Letters of Recommendation. The Department of Community and Family Health requires three Letters of Recommendation.

6. In order to be considered for admission to the Ph.D. Program in Public Health, applicants must be fully prepared to register as full-time students for at least one full academic year (consecutive Fall and Spring semesters).

Program Admission Deadlines

December 15 annually.

DEGREE PROGRAM REQUIREMENTS

For information on program requirements, refer to the college website: www.publichealth.usf.edu

COURSES - See http://www.ugs.usf.edu/sab/sabs.cfm

OTHER INFORMATION

Certificate Programs: (for information click on the graduate certificates at http://www.outreach.usf.edu/gradcerts/)

Clinical Epidemiology
Disaster Management
Health Management and Leadership
Safety Management
Infection Control
Social Marketing
Interdisciplinary Women’s Health
Violence and Injury: Prevention and Intervention
Section 23

College of Visual and Performing Arts

University of South Florida
College of Visual and Performing Arts
4202 E. Fowler Ave FAH110
Tampa, FL 33620

Web address: [http://www.arts.usf.edu/](http://www.arts.usf.edu/)
Email: n/a
Phone: 813-974-2301
Fax: 813-974-2091

College Dean: Ron Jones
Associate Dean: Barton Lee
Graduate Coordinator: Barton Lee

Accreditation:
The Commission on Colleges of the Southern Association of Colleges.

Mission Statement:
The College of Visual and Performing Arts is a distinguished center for learning and research in the arts, preparing tomorrow’s artists, scholars and leaders in the arts through the creation and study of new forms of artistic expression, analysis and pedagogy. The College offers contemporary perspectives in the arts within the context of a dynamic, urban research university setting characterized by its artistic and cultural diversity. It plays a critical role in the cultural vitality of the Tampa Bay region and engages with local, national and international communities in arts initiatives.

In recognition of its academic and artistic achievements, the College has been given the program-of-emphasis status by the State University System. The College offers graduate degree programs in art, art history, music, and music education, as well as graduate certificates and advanced graduate certificates.

<table>
<thead>
<tr>
<th>Major Research Areas:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact College for information.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Types of Degrees Offered:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Arts (M.A.), Master of Fine Arts (M.F.A.), Master of Music (M.M.), Doctor of Philosophy (Ph.D.)</td>
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<tr>
<td>Master of Arts (M.A.)</td>
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<tr>
<td>Art History</td>
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<tr>
<td>Music Education</td>
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<tr>
<td>Master of Fine Arts (M.F.A.)</td>
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<tr>
<td>Art</td>
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<tr>
<td>Dramatic Writing (Theatre) – Not Active</td>
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<tr>
<td>Master of Music (M.M.)</td>
</tr>
<tr>
<td>Music</td>
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<tr>
<th>Concentrations:</th>
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<tbody>
<tr>
<td>Composition</td>
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<tr>
<td>Conducting (Choral and Instrumental)</td>
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<td>Jazz Composition</td>
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475
COLLEGE REQUIREMENTS

College Activities and Events
The College of Visual and Performing 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 CVPA Events Office. Refer to the College website for more information.
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

[Diagram]

Black denotes degree

ART

Master of Fine Arts (M.F.A.)

DEGREE INFORMATION

Degree Offered: Master of Fine Arts (M.F.A.)

Degree Program: Art

Concentration: n/a

EXAMPLE OF CONCENTRATION PAGE

[Diagram]

Black denotes degree

ADULT EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction

Concentration: Adult Education

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy - Ph.D.

Degree Program: Curriculum and Instruction

Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
ART

Master of Fine Arts (M.F.A.)

DEGREE INFORMATION

Degree Offered: Master of Fine Arts - M.F.A.
Degree Program: Art
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: Wallace Wilson
Other Contact: Bradlee Shanks
Phone: 813-974-2360
Fax: 813-974-9226
Email: olinger@arts.usf.edu
Web Address: http://www.art.usf.edu/

Mailing Address:
University of South Florida
School of Art and Art History
Art Program
4202 E. Fowler Avenue, FAH110
Tampa, FL 33620

PROGRAM INFORMATION

The nationally ranked MFA Program in Studio 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 Commission on Colleges of the Southern Association of College and Schools; National Association of Schools of Art and Design.

ADMISSION INFORMATION

Program Admission Requirements
1) Same as general university requirement:
2) Bachelor’s degree
3) Three Letters of Recommendation
4) An Artist’s Statement (Not longer than one 8 1/2 x 11” page)
5) Slide List on one 8 1/2 x 11” page
6) Portfolio (SASE with adequate postage if you want your portfolio returned.) Applicants portfolio should include:
   a) 2-D and 3-D artwork: A minimum of twenty 35mm slides in an 8 1/2 x 11” slide page. The first 20 slides are placed in slide trays for the final viewing committee. Slides should be sequenced to best show the development and relationship of ideas. Each slide should be numbered and labeled with artist’s name, title of work, date, dimensions, materials and an arrow-indicating top of slide. An 8 1/2 x 11” slide list should be included with the same information. A sentence or two providing additional information is acceptable.
   b) Film, video, kinetic sculpture, installation and/or performance artwork:: NTSC VHS videocassette recorded at the highest quality possible in SP mode. The Admissions Panel will review the first 10 minutes of each tape. If the work from more than longer pieces is submitted, short segments from each piece should be excerpted and compiled on the first 10 minutes of the tape. The longer work in its entirety can follow these short excerpts on the same tape. An 8 1/2 x 11” listing of the works on tape, running times and any additional information that will assist in understanding the submitted works should be included.
   c) CD-ROM is not recommended for any work that can be documented in either slides or video. Only work created as digital media should be submitted on a CD. Anything else submitted on CD will not necessarily be reviewed. Work originating and intended to be viewed as digital media should be submitted on a MAC formatted CD, ideally as a self-contained program / document such as Director “Projector” file. Also acceptable is a “Web Archive” document from Internet Explorer. An accompanying 8 1/2 x 11” sheet of paper with a listing of the works submitted and any additional information is acceptable. Only MAC formatted CD’s as stipulated above will be reviewed. Submitting only URLs as documentation of work is not acceptable.
Program Admission Deadlines
Fall deadline: January 15
Fall admission only

DEGREE PROGRAM REQUIREMENTS
The M.F.A. degree requires a minimum of 60 hours. Specific program requirements include the following:

ARH 6798 Contemporary Thought - 4 credits
(20th Century Art History or its equivalent is a prerequisite to ARH 6798 Contemporary Thought.)

ART 6890 Graduate Seminar I – 3 credits (first semester)

ART 6891 Graduate Seminar II – 3 credits (second semester)

ART 6999 Professional Practices – 3 credits

ARH 6xxx Graduate Art History – 8 credits

ARH 6897 Critical Writing Seminar – 3 credits

ART 6956 M.F.A. Research Project – 2 credits

ART 6000 Studio and Discretionary Electives - 35 credits
(3 hours of electives must be taken from a program other than the School of Art and Art History – 4000 level coursework may be used to satisfy this requirement)

ART 6937 Graduate Instructor Methods – 2 credits (This course is an elective option for students who have not worked as a Teaching Assistant.

M.F.A. total course requirements 60 credits
20th Century Art History is a prerequisite to admission to the graduate program. It may be taken during the first year of graduate school but will not count as part of the 60 credit requirement.

*All M.F.A. students must take at least one course in non-western art or thought. This course can be taken as an art history course or through another department offering such an emphasis. Course work taken as undergraduate studies in non-western art may substitute but only at the discretion of the Art Faculty.

** elective option for students who have not assisted as Teaching Assistants in the Foundation course

The rest of the program is discretionary and can be planned with the advice of the Graduate Art Advisor in its initial stages. After faculty acceptance of the student’s proposed final MFA project, a Supervisory Committee will be selected and serve in an advisory capacity with the student for planning the rest of their program.

Transfer Credits. Requests for use of transfer credits or credits earned as a non-degree seeking student should be made when the student applies to the graduate program. The faculty will decide at the time of admission whether or not such credits will be used toward the MFA degree. Transfer credit is limited to 8 hours.

Oral Defense. MFA students are also required to participate in an orals defense in conjunction with their M.F.A. research project. This is a forum for questions from faculty representatives and is open to graduate students and the general public.

Studio Space. An M.F.A. graduate student normally is assigned a studio, when available, in the department and is expected to remain in residence with regular studio hours while enrolled.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm
ART HISTORY

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts - M.A.
Degree Program: Art History
Concentrations: n/a
Program Status: Active
Program Level: Masters

PROGRAM INFORMATION

The School of Art and Art History offers high quality M.A. studies in art history from the Middle Ages to the present. The focus of all art history courses and programs is on the intellectual and cultural history of art. Course work is supplemented by practical internships in galleries and museums as well as study-abroad programs. While a reading knowledge of French or German is preferred, other languages may be substituted with advisor’s approval if more appropriate to the student’s interests.

Accreditation:
Accredited by the Commission on Colleges of the Southern Association of College and Schools; National Association of Schools of Art and Design.

Major Research Areas:
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. Because the focus of the Art History M.A. Program is on the cultural and intellectual history of art, graduate thesis work is expected to address an area of art from a contemporary perspective that is complimentary. This program features an endowed chair in modern and contemporary art history.

ADMISSION INFORMATION

Program Admission Requirements
1. Same as general university requirement.
2. Departmental Requirements plus a research paper dealing directly with Art History or a related discipline (literature, political history, psychology, philosophy or classical studies).
3. Three letters of recommendation from people who can professionally assess the applicant’s ability to do scholarly and academic work.
4. A short essay of one to two pages explaining the applicant’s research interests and goals for graduate study in art history.
5. A personal interview by the Art History faculty may be requested.

Program Admission Deadlines
Fall deadlines: January 15
Fall admission only.

DEGREE PROGRAM REQUIREMENTS

Course work consists of 18 hours of specially designated courses, 18 hours of electives, and 2 hours of thesis for a total of 38 hours.

1. Students must take the following courses
   a) ARH 5795 Methods of Art History (must be taken by the student’s second year in the program)
   b) three Critical Studies Seminars (cannot be substituted with Directed Studies courses)
   c) Thesis Writing for Art History Majors – usually taken in the second year of the student’s program.
   d) Art History Thesis

2. ARH 5797 Museum internship, arranged through the Art History faculty, is optional and can be taken any term after the first semester. Museum experience is encouraged but course credit for museum internship is
limited to those students seeking a Graduate Certificate in Museum Studies.

**Thesis** - By the end of the student’s second semester and completion of 18 hours, the student will select (in consultation with the art history faculty) a Faculty Graduate Thesis Committee. Students will be advanced to candidacy by the art history faculty based in part upon satisfactory completion of a thesis proposal. The Graduate Thesis Committee must approve the written thesis and conduct the oral defense of the thesis in satisfaction of degree requirements.

**Transfer of Credit** - There is no automatic transfer of special student credit or graduate credit earned at other institutions or from other graduate program 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 special student status. Any transfer of credit or special 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. program.

**COURSES** See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
DRAMATIC WRITING

Master of Fine Arts (M.F.A.)

DEGREE INFORMATION

Degree Offered: Master of Fine Arts (M.F.A.)
Degree Program: Dramatic Writing
Concentrations: n/a
Program Status: Inactive
Program Level: Masters

CONTACT INFORMATION

Program Director: Dale Rose
Other Contact: n/a
Phone: 813-974-3975
Fax: 813-974-4122
Email: drose@arts.usf.edu
Web Address: n/a
Mailing Address: University of South Florida
School of Theatre and Dance
Dramatic Writing Program
4202 E. Fowler Avenue, FAH110
Tampa, FL 33620

Inactive. Currently, students are not being admitted into this program.
MUSIC

Master of Music (M.M.)

DEGREE INFORMATION

Degree Offered: Master of Music (M.M.)
Degree Program: Music
Concentrations: Composition
Conducting (Choral Conducting, Instrumental Conducting)
Jazz Studies (Jazz Composition, Jazz Performance)
Music Education (Ph.D. Program) Performance
Piano Pedagogy
Theory
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Director: William P. Hayden
Other Contact: n/a
Phone: 813-974-2311
Fax: 813-974-4165
Email: wphayden@arts.usf.edu
Web Address: http://music.arts.usf.edu/

Mailing Address:
University of South Florida
School of Music
Music Program
4202 E. Fowler Avenue, FAH110
Tampa, FL 33620

PROGRAM INFORMATION

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

Major Research Areas:
Composition, Conducting, Jazz Studies, Music Performance, Music Theory

ADMISSION INFORMATION

Program Admission Requirements
Same as general university requirement plus successful auditions and/or interviews for admission into conducting, performance, pedagogy, and theory programs. Approved portfolios are required for admission into composition (jazz or traditional). Diagnostic tests in music history/literature and theory must be taken prior to the first semester of study. Based upon the scores, the music faculty may require remediation in one or both areas of study. GRE is not required for the M.M. degree program.
Undergraduate degree in music from an accredited program is required. A 3.0 overall GPA in upper division courses and all music courses is required. International students must include copies of graduation Certificates and/or Diplomas and have at least a score of 550 (213 for the computer version) on the TOEFL or have completed ELI Level 4 or 5 and have passed the ELI Exit Assessment.

**Program Admission Deadlines**

**US Students:**
- Fall deadline: Aug 1
- Spring deadline: Dec 1
- Summer deadline: April 1

**International Students:**
- Fall deadline: June 1
- Spring deadline: Oct 1
- Summer deadline: Feb 1

**DEGREE PROGRAM REQUIREMENTS**

Successful auditions and/or interviews are required for admission into conducting, performance, pedagogy, and theory programs. Approved portfolios are required for admission into composition (jazz or traditional). In addition a Music Assessment Test in music history, theory, and literature must be taken before classes being in the first semester. Based upon the scores the music faculty may require remediation in one or more areas of study. Graduate review courses are offered each Fall semester. The Graduate Record Examination (GRE) is not required for the M.M. degree program. 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 overall Grade Point Average (GPA) for upper division credit hours must be at least 3.0 and the G.P.A. for all music courses included in the undergraduate degree must be at least 3.0. International students must include copies of graduation Certificates and/or Diplomas (in addition to official transcripts) with their applications. International students must have at least a score of 550 (or 213 for the computer version) on the Test of English as a Foreign Language (TOEFL), or they must have completed English Language Institute (ELI) Level 4 or Level 5 and have passed the ELI Exit Assessment. Credit hours earned in Certificate Programs at USF may be applied toward a master’s degree. Up to 8 graduate credit hours or 3 graduate courses may be transferred from other institutions. M.M. students may apply up to 6 credit hours of 4000-level courses, which are deemed appropriate for their degree program and which are taken at USF as part of their graduate studies. M.M. students must successfully complete a Comprehensive Examination at the end of the program of study. Details regarding this examination may be obtained from the Director of Graduate Studies in Music.

**COURSES**

See [http://www.ups.usf.edu/sab/sabs.cfm](http://www.ups.usf.edu/sab/sabs.cfm)
MUSIC

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Music
Concentrations: Music Education
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: William P. Hayden
Other Contact: n/a
Phone: 813-974-2311
Fax: 813-974-4165
Email: wphayden@arts.usf.edu
Web Address: http://music.arts.usf.edu/

PROGRAM INFORMATION

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 exciting period of study.

Accreditation:
Accredited by the National Council for Accreditation of Teacher Education (N.C.A.T.E.); The Commission on Colleges of the Southern Association of Colleges and Schools (S.A.C.S.); National Association of Schools of Music (N.A.S.M.)

Major Research Areas:
Adolescent Voice, Alternative Methods, Community Collaboration, Contemporary Changes, Early Childhood, General Music, International Perspectives, Multicultural Issues, Philosophy, Psychology, Sociology, Teacher Behaviors, Technology

MUSIC EDUCATION CONCENTRATION IN THE Ph.D. IN MUSIC

Program Description
The Ph.D. program 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.

ADMISSION INFORMATION

Program Admission Requirements
1. Same as general university requirement.
2. Overall baccalaureate degree GPA of at least 3.0, and master’s degree GPA of at least 3.5.
3. A minimum of three letters of recommendation from people qualified to speak on behalf of the applicant’s professional capabilities must accompany the application.
4. In certain cases, acceptance into the Ph.D. program is possible without the master’s degree. The M.A. in Music Education may be acquired by completing those credits required for that degree, while at the same time enrolling in courses for the Ph.D. However, all applicants
are expected to have two or more years of teaching experience in a public or private school or its equivalent.

5. Applicants must have
   a. a successful Interview with the music education faculty
   b. acceptable scores on the GRE General test, (after October 1, 2002) must be taken for assessment purposes prior to enrollment in the program, and the results must be delivered to the USF School of Music as part of the application and admission process.
   c. A sample of scholarly writing for review by the faculty
   d. A 15-20 minute video recording of the applicant teaching music should be submitted at the time of application to the program.
   e. Submit official undergraduate and graduate Transcripts (from accredited programs) with application. Students who wish to transfer graduate credits not included on the “degree” transcripts must also include those transcripts with application.

6. International students must include copies of graduation Certificates And Diplomas and a score of 550 (213 for the computer version) on the TOEFL or have completed ELI Level 4 or 5 and have passed the ELI Exit Assessment.

Program Admission Deadlines
US Students:
Fall deadline: Aug 1
Spring deadline: Dec 1
Summer deadline: April 1

International Students:
Fall deadline: June 1
Spring deadline: Oct 1
Summer deadline: Feb 1

DEGREE PROGRAM REQUIREMENTS
Sequence of Events and Protocols

1. ADMISSION
   a. Bachelor’s degree (GPA at least 3.0) and Master’s degree (GPA at least 3.5) in music education or music.
   b. Admission to USF Graduate Studies with acceptable transcript(s)
   c. At least two years of K-12 music teaching experience required
   d. At least three letters of reference

   (predicting success in a graduate program)
   e. Resume
   f. Interview, portfolios, and the GRE General Test scores (Taken after October 1, 2002) required prior to admission. Contact the music education faculty for details concerning interviews and portfolios; contact ETS for the GRE test.
   g. A 15-20 minute video recording of the applicant teaching music
   h. Approval by the music education faculty for admission into the program

2. COMPLETION OF COURSES
   a. Appointment of Doctoral Committee
   b. Comprehensive Qualifying Examination
   c. Admission to Candidacy

3. SUBMISSION OF DISSERTATION

4. APPLICATION FOR GRADUATION (due by beginning of final semester)

5. DISSERTATION DEFENSE
   a. Final Oral Examination
   b. Final recommendation with signatures presented to Director of Graduate Studies in Music

COURSE REQUIREMENTS

Specialization (21 hours)

MUE 7815 Foundations of Musical Learning and Teaching (3)
MUE 7835 Philosophical Issues in Music Education (3)
MUE 7939 Doctoral Seminar in Music Education Research (3)

Choose 1 of 2:
MUE 7937 Special Topics in Music Education (3)
MUE 7990 Doctoral Seminar on Music in Higher Education (3)

Specialization Electives:
Three additional courses in Education, Music Education, and/or another discipline relevant to the student’s research (9)
Cognate (9 hours)
Choice of graduate courses in music from the following:
Jazz Studies, Music Composition, Music Conducting,
Music History, Music Literature, Music Performance,
Music Theory (9)

Statistics and Measurement (12 hours)
Students must have completed EDF 6432 Foundations of Measurement and EDF 6481 Foundations of Educational Research as prerequisites for the following courses. They may be taken as Specialization Electives, if not taken previously.

EDF 6407 Statistical Analysis for Educational Research I (4)
EDF 7408 Statistical Analysis for Educational Research II (4)
EDF 7410 Design of Systematic Studies in Education (4)

Dissertation (18 hours)
Prerequisite: Comprehensive Qualifying Examination

MUE 7980 Dissertation (18)

Total Hours Beyond the Master’s Degree (60)

COURSES
See http://www.ugs.usf.edu/sab/sabs.cfm
For Course Rotation Schedule see http://hayden.arts.usf.edu
MUSIC EDUCATION

Master of Arts (M.A.)

DEGREE INFORMATION

Degree Offered: Master of Arts (M.A.)
Degree Program: Music Education
Concentrations: n/a
Program Status: Active
Program Level: Masters
Also offered as: Concentration in the Doctor of Philosophy (Ph.D.) in Music

CONTACT INFORMATION

Program Director: William P. Hayden
Other Contact: n/a
Phone: 813-974-2311
Fax: 813-974-4165
Email: wphayden@arts.usf.edu
Web Address: http://music.arts.usf.edu
Mailing Address: University of South Florida
School of Music
Music Education Program
4202 E. Fowler Avenue, FAH110
Tampa, FL 33620

PROGRAM INFORMATION

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.

Master of Arts Program Description
Graduate education in music education at the University of South Florida is focused on research. The Master of Arts degree in music education empowers students to become thoughtful consumers of research in music education. This program captures a balanced array of courses in music education, research techniques, music theory/history/literature, and electives in music. It concludes with a comprehensive examination. Variability of the program depends on individual interests and needs.

Accreditation:

Major Research Areas:
Adolescent Voice, Alternate Methods, Community Collaboration, Contemporary Changes, Early Childhood, General Music, International Perspectives, Multicultural Issues, Technology, Teacher Behaviors, Philosophy, Psychology, Sociology

ADMISSION INFORMATION

Program Admission Requirements
1. An official Transcript for a completed undergraduate degree in music (from an accredited program) is required with the application.
2. The overall Grade Point Average (GPA) for upper division credit hours must be at least 3.0, and the GPA for all music, music education, and education courses included in the undergraduate degree must be at least 3.0.
3. A minimum of three (3) current Letters of Recommendation from people qualified to speak
on behalf of the applicant’s professional capabilities must accompany the application. Final approval for admission must be granted by the music education faculty.

4. International students must include copies of graduation Certificates and/or Diplomas (in addition to official transcripts) with their applications. If English is not their primary language, they must have at least a score of 550 (or 213 for the computer version) on the Test of English as a Foreign Language (TOEFL), or they must have completed English Language Institute (ELI) Level 4 or Level 5 and have passed the ELI Exit Assessment.

5. Credit hours earned in Certificate programs at USF may be applied toward a master’s degree. Up to 8 graduate credit hours or 3 graduate courses may be transferred from other institutions. M.A. students may apply up to 6 credit hours of 4000-level courses, which are deemed appropriate for their degree program and which are taken at USF as part of their graduate studies.

6. Diagnostics tests in music history, theory, and literature must be taken if a student intends to register for graduate courses in music history, literature, and/or theory. Based upon the scores, the music faculty may require remediation in one or more areas of study in order to qualify the student for permission to enroll in certain courses.

7. M.A. students must successfully complete a Comprehensive Examination at the end of the program of study. A contract for this examination may be obtained from the Director of Graduate Studies in Music.

Program Admission Deadlines

US Students:
Fall deadlines: Aug 1
Spring deadlines: Dec 1
Summer deadlines: April 1

International Students:
Fall deadlines: June 1
Spring deadlines: Oct 1
Summer deadlines: Feb 1

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.
Director of Graduate Studies in Music

Program of Study
Common Core=9
Required=15
Electives=8

Common Core:
MUS 6793  Techniques of Research in Music and Music Education (online) (3)
MUL 6375  Twentieth Century Music Literature (online) (3)

Choose 1 of 3
MUT 6545  Analysis of 18th and 19th Century Music (3)
MUT 6626  Analysis of 20th Century Music (online) (3)
MUT 6665  Jazz Styles and Analysis (2)

Required Courses (all online)
MUS 6525  Computer Applications in Music (3)
MUE 6080  Foundations & Principles of Music Education (3)
MUE 6648  Techniques & Research in Alternative Music Education Models (3)

EDF 6432  Foundations of Measurement (3)

Choose 1 of 3:
MUE 6116  General Music Education K-12 (3)
MUE 6336  Advanced Techniques & Research in Secondary Vocal Music (3)
MUE 6348  Advanced Techniques & Research in Instrumental Music Ed (3)

ELECTIVES  8 hours
Other graduate music courses, which may include Directed Studies, Directed Research, and Thesis.

Courses are subject to change. Summer courses may be offered. All inquiries should be directed to the Director of Graduate Studies in Music. The responsibility for seeing that all graduation requirements are met rests with the student.

COURSES
See http://www.ups.usf.edu/sab/sabs.cfm

A Course Rotation schedule is available from the program and on the website:  http://hayden.arts.usf.edu
### Section 24

**Interdisciplinary Programs**

<table>
<thead>
<tr>
<th>University of South Florida</th>
<th><strong>Types of Degrees Offered:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Graduate Studies</td>
<td>Master of Arts (M.A.)</td>
</tr>
<tr>
<td>4202 E. Fowler Ave FAO100B</td>
<td>Doctor of Philosophy (Ph.D.)</td>
</tr>
<tr>
<td>Tampa, FL  33620</td>
<td></td>
</tr>
</tbody>
</table>

**Web address:**  [http://www.grad.usf.edu](http://www.grad.usf.edu)

**Email:**  n/a

**Phone:**  813-974-22846

**Fax:**  813-974-5762

**Interim Dean:**  Kelli McCormack Brown

**Accreditation:**
The Commission on Colleges of the Southern Association of Colleges.

**Mission Statement:**
The Mission of the Graduate School at the University of South Florida is to stimulate, encourage and support graduate education efforts that build national distinction and are characterized by innovation and by increasing contribution to the social, cultural, economic, health and technological development needs of the region and state.

The following are degree programs offered across programs and/or colleges. Two of the programs are offered from the College of Graduate Studies. The SLAIT program is offered from the College of Arts and Sciences and the College of Education. Information about these programs is available on the following pages.
About the Catalog

The University of South Florida Graduate Catalog is organized with the degree programs offered listed in the section of the college that offers them. For example, the Master of Science degree with a “program” (also known as major) in Biology is listed in the College of Arts and Sciences section. Some colleges offer areas of specialization, or “concentrations” within a degree program.

EXAMPLE OF PROGRAM PAGE

Black denotes degree

APPLIED BEHAVIOR ANALYSIS

Master of Arts (M.A.)

Green denotes Program (or Major)

Degree Offered: Master of Arts (M.A.)
Degree Program: Applied Behavior Analysis
Concentration: n/a

EXAMPLE OF CONCENTRATION PAGE

Black denotes degree

ADULT EDUCATION

Doctor of Philosophy (Ph.D.) in Curriculum and Instruction
Concentration: Adult Education

Green denotes Program (or Major)

Blue denotes Concentration (or area of specialization)

Degree Offered: Doctor of Philosophy - Ph.D.
Degree Program: Curriculum and Instruction
Concentration: Adult Education

The name of the program and/or concentration does not appear on the diploma – only the name of the degree (i.e., Master of Arts) is listed. The program and concentration information is listed on the official transcript. Other areas, such as application track, are not listed on the transcript.
### Applied Behavior Analysis (M.A.)

#### Degree Information

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Master of Arts - M.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree Program:</td>
<td>Applied Behavior Analysis</td>
</tr>
<tr>
<td>Concentrations:</td>
<td>n/a</td>
</tr>
<tr>
<td>Program Status:</td>
<td>Inactive</td>
</tr>
<tr>
<td>Program Level:</td>
<td>Masters</td>
</tr>
</tbody>
</table>

#### Contact Information

- **Interim Program Director:** Kelli McCormack Brown
- **Other Contact:** Brenda Hunter
- **Phone:** 813-974-2910
- **Fax:** 813-974-7061
- **Email:** abausf@grad.usf.edu
- **Web Address:** www.grad.usf.edu/abausf/

**Mailing Address:**
University of South Florida
Interdisciplinary Program
Applied Behavior Analysis Program
4202 E. Fowler Avenue, FAO126
Tampa, FL 33620

**Inactive.** Currently, no students are being admitted to this program.
CANCER BIOLOGY

Doctor of Philosophy (Ph.D.)

DEGREE INFORMATION

Degree Offered: Doctor of Philosophy (Ph.D.)
Degree Program: Cancer Biology
Concentrations: n/a
Program Status: Active
Program Level: Doctoral

CONTACT INFORMATION

Program Director: Kenneth L. Wright, Ph.D.
Other Contact: n/a
Phone: 813-903-6876
Fax: 813-979-7264
Email: cancerphd@moffitt.usf.edu
Web Address: http://www.hsc.usf.edu/COM/iop/cancer/
Mailing Address:
University of South Florida
Interdisciplinary Ph.D. Program
in Cancer Biology
H. Lee Moffitt Cancer Center, MRC 4 East
12902 Magnolia Drive
Tampa, FL 33612

PROGRAM INFORMATION

The H. Lee Moffitt Cancer Center and the University of South Florida have joined to establish a new graduate program focused specifically on Cancer Biology. Tremendous advancement in the detection and treatment of cancer has occurred over the last decade, yet cancer continues to adversely affect millions of people worldwide in terms of quality of life, life span and economic burden.

The H. Lee Moffitt Cancer Center at the University of South Florida is a leading institution of basic research, clinical research and patient treatment. The H. Lee Moffitt Cancer Center has received national acclaim and is officially designated as a cancer center by the National Cancer Institute of the National Institutes of Health. The Cancer Biology Ph.D. Program'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. program emulates the H. Lee Moffitt Cancer Center and eliminates these boundaries. Students will receive cancer-oriented training in: molecular biology, immunology, functional genomics, bioinformatics, drug discovery & development, cancer prevention & control, cancer therapeutics, cell biology, biochemistry, proteomics chemistry.

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

ADMISSION INFORMATION

Program Admission Requirements
1. Extensive background in field of biology or chemistry
2. GRE of at least 1100 or greater;
3. GPA of at least 3.0 or greater;
4. Advanced coursework and research experience preferred

Program Admission Deadlines
Domestic Applications: Feb 1
International Applications: Jan 1

DEGREE PROGRAM REQUIREMENTS

Course Requirements –
All students are required to successfully complete the Cancer Biology Program Core Courses. In addition students must successfully complete at least two elective courses that have been approved by the Cancer Biology Education Committee. These elective courses are offered through Departments within the College of Medicine, Engineering, and Arts and Sciences. Dissertation Committees may also 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 3.0 (B) in order to remain in good standing.

**Stipends:** All cancer Biology Ph.D. students in good standing will receive a $20,000 per year stipend, student health insurance coverage and direct payment of their tuition. All students are highly encouraged to apply for funding from outside sources.

**Required Cancer Biology Core Courses**
GMS 6056 Cancer Research Techniques
GMS 6054 Cancer Biology I
GMS 6055 Cancer Biology II
GMS 6080 Laboratory Rotations
GMS 6931 Directed Research
GMS 6060 Advances in Cancer Biology
GMS 6057 Current Topics in Oncology

**Examples of Approved Elective Courses**
GMS 6200 C Core Courses in Medical Biochemistry
BCH 6411 Molecular Biology
GMS 6501 Cellular and Molecular Pharmacology
GMS 6100 Core Courses Medical Microbio & Immun.
GMS 6107 Advances in Virology
GMS 6130 Molecular Biology of Tumor Viruses
GMS 6111 Human Systemic Pathology
GMS 6112 Biochemical Pathology
GMS 6300C Core Courses in Pathology

**COURSES**
See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)
Entrepreneurship in Applied Technologies

(M.S.)

ENTREPRENEURSHIP IN APPLIED TECHNOLOGIES

Master of Science

DEGREE INFORMATION

Degree Offered: Master of Science (M.S.)
Degree Program: Entrepreneurship in Applied Technology
Concentrations: n/a
Program Status: Active
Program Level: Masters

CONTACT INFORMATION

Program Directors: Michael Fountain
Other Contact: William G. Marshall, Jr.
Phone: 813-974-7900 813-974-7663
Email: fountain@coba.usf.edu wmarshal@hsc.usf.edu
Web Address: http://www.ce.usf.edu http://www.entrepreneurship.usf.edu
Mailing Address:
The Center for Entrepreneurship
University of South Florida
4202 E. Fowler Avenue, BSN 3403
Tampa, FL 33620-5500

PROGRAM INFORMATION

The Center for Entrepreneurship at the University of South Florida, in conjunction with the Colleges of Business Administration, Engineering, and Medicine and the Graduate School, has established a novel, innovative, and unique program in interdisciplinary Entrepreneurship in Applied Technologies. The Master’s of Science Degree Program in Entrepreneurship in Applied Technologies is a 30 credit-hour program and consists of eleven (11) courses which 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 interdisciplinary program curriculum utilizing faculty and courses in the Colleges of Business Administration, Engineering, and Medicine under the auspices of the Graduate School. The program 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 dual-degree program in conjunction with a traditional M.A., M.S., M.B.A., M.D., or Ph.D. program. The program must be completed by the student within a 5-year period following initiation.

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

Major Research Areas:
N/A

ADMISSION INFORMATION

Program Admission Requirements
1. Bachelor’s degree or equivalent from a regionally accredited university
2. “B” (3.0 on a 4.0 scale) average in all upper division work
3. Two (2) letters of recommendation
4. Letter of interest
5. Statement of purpose
6. Personal interview
7. GRE, GMAT may be required on individual basis; MCAT or LSAT may be substituted
8. Competence in Statistics, Accounting, and Finance must be demonstrated

Program Admission Deadlines
Fall admission only: March 1

DEGREE PROGRAM REQUIREMENTS

Program of Study
Course Requirements – Graduation will require successful completion of the 30 hour curriculum, with a minimum GPA of 3.0 (no grades below “C”), within a five (5) year period.

Stipends – N/A

Required Entrepreneurship Courses
GMS 7930 Principles of Intellectual Property
EIN 6271 Overview of Regulated Industries
EIN 6121 Technology and Markets
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EIN 6934</td>
<td>Strategies for Advanced Product Development</td>
</tr>
<tr>
<td>GEB 6116</td>
<td>Business Plan Development</td>
</tr>
<tr>
<td>GEB 6115</td>
<td>New Venture Formation</td>
</tr>
<tr>
<td>GEB 6936</td>
<td>Strategies for New Venture Financing</td>
</tr>
<tr>
<td>ENT 6930</td>
<td>Strategies in Technology - Entrepreneurship</td>
</tr>
<tr>
<td>GMS 6821</td>
<td>BioMedical Ethics</td>
</tr>
<tr>
<td>EIN 5914</td>
<td>Advanced Topics in Technology - Entrepreneurship</td>
</tr>
<tr>
<td>ENT 6936</td>
<td>Entrepreneurship Research Seminar</td>
</tr>
</tbody>
</table>

**OTHER INFORMATION:**

N/A
SECOND LANGUAGE ACQUISITION AND INSTRUCTIONAL TECHNOLOGY

Doctor of Philosophy (Ph.D.) in Second Language Acquisition and Instructional Technology

**DEGREE INFORMATION**

<table>
<thead>
<tr>
<th>Degree Offered:</th>
<th>Doctor of Philosophy (Ph.D.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree Program:</td>
<td>Second Language Acquisition and Instructional Technology (SLAIT)</td>
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<td>Concentrations:</td>
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<td>Program Status:</td>
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<td>Program Level:</td>
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*Cross-listed under the College of Arts and Sciences, the College of Education and the Interdisciplinary Programs Sections.*

**CONTACT INFORMATION**

<table>
<thead>
<tr>
<th>Program Directors:</th>
<th>Carine Feyten, College of Education and Jeffra Flaitz, College of Arts and Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone:</td>
<td>813-974-3533</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:feyten@usf.edu">feyten@usf.edu</a></td>
</tr>
<tr>
<td>Web Address:</td>
<td><a href="http://www.coedu.usf.edu/slait">http://www.coedu.usf.edu/slait</a></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Mailing Address:</th>
<th>University of South Florida</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>College of Education</td>
</tr>
<tr>
<td></td>
<td>SLAIT Program</td>
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<tr>
<td></td>
<td>4202 E. Fowler Avenue, EDU162</td>
</tr>
<tr>
<td></td>
<td>Tampa, FL 33620</td>
</tr>
</tbody>
</table>

**PROGRAM INFORMATION**

This is an interdisciplinary program between the College of Education and the College of Arts and Sciences and combines the expertise of both faculties to provide a curriculum in pedagogy, world language education, second language acquisition, sociolinguistics, sociocultural theory, instructional technology, and statistics, research design. The goal of the program is to prepare students for careers in academia.

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

Major Research Areas:
Second Language Acquisition, Instructional Technology, Foreign Language Education, Distance Learning.

**ADMISSION INFORMATION**

Program Admission Requirements
For all admission, all programs require earned degrees from regionally accredited institutions. International students are also required to:

1. Provide a course-by-course evaluation of foreign transcripts from an approved external agency
2. Submit passing TOEFL scores

Requirements for all applicants include:

1. GRE score
2. 3.5 Mast.

3. Proof of educational experience
4. Letters of recommendation
5. Interview
6. Concept Paper

**Program Admission Deadlines**
See website: [http://www.coedu.usf.edu/slait](http://www.coedu.usf.edu/slait)

**DEGREE PROGRAM REQUIREMENTS**

Statement of purpose; evidence demonstrating experience in computer literacy and evidence of scholarly promise; personal interview with graduate faculty; two (2) hour background assessment to assist the graduate faculty in planning your program; Master's degree; minimum GPA of 3.5 (or international equivalent); minimum score of 1000 on GRE (Combined score on Verbal and Quantitative); TOEFL score of 600 (paper-based) and 250 (computer-based) if applicable. Students must demonstrate proficiency in two languages before reaching candidacy.

**Program of Study:** 75 credit hours - core courses (45-46 semester hours); electives 9-12 semester hours; dissertation (18 semester hours)

**COURSES** - See [http://www.ugs.usf.edu/sab/sabs.cfm](http://www.ugs.usf.edu/sab/sabs.cfm)

**OTHER INFORMATION**

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.
**Section 25 Graduate Courses**

To view the Course Listing with Course Descriptions, see Appendix.

**Glossary of Course Description Terms**
Courses offered for credit by the University of South Florida are listed with the program or college that offers them. The first line of each description includes the State Common Course prefix and number (see below), title of the course, and number of credits.

Credits separated by a colon indicate concurrent lecture and laboratory courses taught as a unit:
PHY 3040, 3040L PHYSICS AND LAB (3:1)

Credits separated by a comma indicate unified courses offered in different semesters:
AMH 2010, 2020 AMERICAN HISTORY I, II (4,4)

Credits separated by a hyphen indicate variable credit:
MAT 7912 DIRECTED RESEARCH Var.

The following abbreviations are used in various course descriptions:
- G Graduate
- PR Prerequisite
- CI With the consent of the instructor
- CC With the consent of the chairperson of the department or program
- CR Co-requisite
- Lec Lecture
- Lab Laboratory
- Dem Demonstration
- Pro Problem
- Dis Discussion
- ML Master’s Level
- GS Graduate Standing
- Rpt May be repeated
- UL Upper level
- S/U No grade, Satisfactory/Unsatisfactory Only

**Course Level Definitions:**
- 5000-5999 Senior/Graduate Level
- 6000-Up Graduate Level

The University reserves the right to substitute, not offer, and add courses and programs that are listed in this catalog.

**Florida’s Statewide Course Numbering System**

Courses in this catalog are identified by prefixes and numbers were assigned by Florida’s Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of 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 Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the “SCNS taxonomy.” Descriptions of the content of courses are referred to as “statewide course details.”

**Example of Course Identifier**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level Code (first digit)</th>
<th>Century Digit (second digit)</th>
<th>Decade Digit (third digit)</th>
<th>Unit Digit (fourth digit)</th>
<th>Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYG</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>No lab in this course</td>
</tr>
<tr>
<td>Sociolog y, General</td>
<td>Freshman Level at this institution</td>
<td>Entry-level General Sociology</td>
<td>Survey Course</td>
<td>Social Problems</td>
<td></td>
</tr>
</tbody>
</table>

**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. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 34 different postsecondary institutions. Each institution uses “SYG_010” to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific
In the SCNS taxonomy, “SYG” means “Sociology, General,” the century digit “0” represents “Entry-level General Sociology,” the decade digit “1” represents “Survey Course,” and the unit digit “0” represents “Social Problems.”

In science and 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. The “L” represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which may meet at a different time or place.

Transfer of any successfully completed course from one 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, SYG 1010 is offered at a community college while the same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university upon transfer. The student cannot be required to take SYG 1010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution to offer transfer credit for courses successfully completed which have not been designated as equivalent.

Exceptions to the General Rule for Equivalency
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 in the 900-999 series (e.g., HUM 2905)
- Internships, practica, clinical experiences, and study abroad courses
- Performance or studio courses in Art, Dance, Theater, and Music
- Skills courses in Criminal Justice
- Graduate courses
- Courses not offered by the receiving institution
- College preparatory and vocational preparatory courses may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Undergraduate Studies (for questions pertaining to graduate and undergraduate courses) or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling telephone number (850) 245-0427 or SunCom 205-0427.

To view the Course Listing with descriptions, see Appendix.
<table>
<thead>
<tr>
<th>Sub</th>
<th>Num</th>
<th>Title</th>
<th>CR</th>
<th>Col</th>
<th>Dept</th>
<th>Prerequisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG</td>
<td>5205</td>
<td>Advanced Financial Accounting</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 4123</td>
<td>Accounting for business combinations, preparation of consolidated financial statements, home office/branch relationships, foreign operations and transactions, partnerships.</td>
</tr>
<tr>
<td>ACG</td>
<td>5501</td>
<td>Governmental/Not-For-Profit Accounting</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 4123, CR: ACG 4632.</td>
<td>Application of financial and managerial accounting, and auditing, principles and theory to both governmental and not-for-profit entities.</td>
</tr>
<tr>
<td>ACG</td>
<td>5675</td>
<td>Internal and Operational Auditing</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 3113 and ACG 3401. CR: ACG 4632.</td>
<td>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.</td>
</tr>
<tr>
<td>ACG</td>
<td>6025</td>
<td>Financial Accounting for Managers</td>
<td>2</td>
<td>BA</td>
<td>MBA</td>
<td>Not available for credit for graduate students in the Master of Accountancy program.</td>
<td>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.</td>
</tr>
<tr>
<td>ACG</td>
<td>6075</td>
<td>Management Accounting and Control</td>
<td>2</td>
<td>BA</td>
<td>MBA</td>
<td>PR: ACG 6025. Not available for credit for graduate students in the Master of Accountancy program.</td>
<td>Deals with management accounting systems for different types of entities, cost behavior patterns, cost-volume-profit analysis, relevant information for decision making, and budgets and standard costs for planning and control.</td>
</tr>
<tr>
<td>ACG</td>
<td>6346</td>
<td>Cost Accounting Theory</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 3341 or equivalent</td>
<td>Deals with the evolution of cost accounting systems and their subsequent loss of relevance, and the impact of new management accounting philosophies (giving consideration to the influences of the international community) in the modern manufacturing environment.</td>
</tr>
<tr>
<td>ACG</td>
<td>6405</td>
<td>Accounting Systems Theory</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 3401 or equivalent</td>
<td>Design, operation, and auditing of contemporary accounting systems, including file oriented and data base environments.</td>
</tr>
<tr>
<td>ACG</td>
<td>6457</td>
<td>Accounting Systems Audit, Control, and</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 3401, ACG 6405 or equivalent.</td>
<td>An in-depth study of contemporary systems control security from an audit perspective. Course topics will include: IS audit standards,</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Degree</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>ACG 6476</td>
<td>Contemporary Issues in Accounting Information Systems</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 6405 or equivalent</td>
<td>An in-depth study of current accounting information systems issue confronting the accounting profession. Graduate students research and study contemporary and emerging topics in the field.</td>
<td></td>
</tr>
<tr>
<td>ACG 6636</td>
<td>Contemporary Issues in Auditing</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 4632</td>
<td>This course explores contemporary auditing issues and advanced topics concerning the changing role of the audit assurance function and changing audit processes. Topics include audit reporting, auditing in advanced computerized environments, audit judgment, quality control, and regulation of the profession.</td>
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</tr>
<tr>
<td>ACG 6637</td>
<td>Contemporary Issues in Accounting Information Systems</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 6405 or equivalent</td>
<td>An in-depth study of current accounting information systems issues confronting the accounting profession. Graduate students research and study contemporary and emerging topics in the field.</td>
<td></td>
</tr>
<tr>
<td>ACG 6875</td>
<td>Development of Accounting Thought</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: 20 hours of accounting or CI</td>
<td>A study and evaluation of the development and evolution of current accounting theory and measurement concepts. An examination of financial accounting objectives, measurement models, and controversial issues.</td>
<td></td>
</tr>
<tr>
<td>ACG 6890</td>
<td>Measuring Organizational Effectiveness</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: Graduate standing.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ACG 6905</td>
<td>Independent Study</td>
<td>1-19</td>
<td>BA</td>
<td>ACC</td>
<td>PR: CC, S/U</td>
<td>Independent Study. Student must have a contract with an instructor.</td>
<td></td>
</tr>
<tr>
<td>ACG 6915</td>
<td>Directed Research</td>
<td>1-19</td>
<td>BA</td>
<td>ACC</td>
<td>PR: GR. M.L, CC, S/U</td>
<td></td>
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</tr>
<tr>
<td>ACG 6932</td>
<td>Integrative Accounting Seminar</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: Enrolled in final semester of program</td>
<td>Use of case studies to explore the interaction of accounting and business topics that have been previously emphasized in separate courses.</td>
<td></td>
</tr>
<tr>
<td>ACG 6936</td>
<td>Selected Topics in</td>
<td>1-4</td>
<td>BA</td>
<td>ACC</td>
<td>PR: CC</td>
<td>The course content will depend on student demand and instructor's</td>
<td></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Degree</td>
<td>College</td>
<td>Prerequisite</td>
<td>Course Description</td>
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<tr>
<td>ACG 7156</td>
<td>Seminar in Financial Accounting</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 6875 or CI</td>
<td>This course investigates advanced research and methodological issues in financial accounting. It focuses primarily on research which uses financial information in contexts external to the firm.</td>
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<tr>
<td>ACG 7356</td>
<td>Seminar in Management Accounting</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 6346 or CI</td>
<td>Review and critical analysis of management accounting foundation with emphasis on the current research methods in organizational behavior aspects and multiple criteria decision methods.</td>
<td></td>
</tr>
<tr>
<td>ACG 7415</td>
<td>Seminar In Accounting Information Systems</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 6405 or CI</td>
<td>Review and critical analysis of major topics and research methods in accounting information systems.</td>
<td></td>
</tr>
<tr>
<td>ACG 7646</td>
<td>Seminar in Auditing</td>
<td>3</td>
<td>BA</td>
<td>ACC</td>
<td>PR: ACG 6636 or equiv. or CI</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ACG 7936</td>
<td>Seminar On Special Topics In Accounting</td>
<td>1-4</td>
<td>BA</td>
<td>ACC</td>
<td>PR: CI</td>
<td>Coverage of particular topics of interest to doctoral faculty and students during any given semester.</td>
<td></td>
</tr>
<tr>
<td>ACG 7980</td>
<td>Dissertation in Accounting</td>
<td>2-21</td>
<td>BA</td>
<td>ACC</td>
<td>PR: Completion of comprehensive exams and CI</td>
<td>Research and writing of a dissertation on an accounting topic.</td>
<td></td>
</tr>
<tr>
<td>ADE 6080</td>
<td>Adult Education in the United States</td>
<td>4</td>
<td>ED</td>
<td>EDV</td>
<td></td>
<td>A study of the adult education movement in the United States from its beginnings to the present lifelong learning enterprise it has become. Economic and cultural factors of the past are examined with a view toward implications for the future.</td>
<td></td>
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<tr>
<td>ADE 6160</td>
<td>Program Management in Adult Education</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td></td>
<td>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.</td>
<td></td>
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<tr>
<td>ADE 6161</td>
<td>Curriculum Construction in Adult Education</td>
<td>4</td>
<td>ED</td>
<td>EDV</td>
<td></td>
<td>Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation. Concentrates on basic principles affecting the planning of Adult Education activities, including an overview of the human forces that both impinge on and motivate human behavior in an adult learning</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Environment</td>
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<tr>
<td>ADE 6197</td>
<td>Adult Basic Education</td>
<td>4</td>
<td>ED EDV</td>
<td>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.</td>
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<tr>
<td>ADE 6280</td>
<td>Administration in Local Adult Education Programs</td>
<td>4</td>
<td>ED EDV</td>
<td>A study of the organization, selection of personnel, assignment of duties and responsibilities, and establishment of policies and procedures to accomplish the objectives of the local program within federal, state, and local requirements.</td>
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<tr>
<td>ADE 6287</td>
<td>Supervision of Local Adult Education Programs</td>
<td>4</td>
<td>ED EDV</td>
<td>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.</td>
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<tr>
<td>ADE 6360</td>
<td>Methods of Teaching Adult Education</td>
<td>3</td>
<td>ED EDV</td>
<td>An exploration of different methods, techniques, and materials available to help adults learn. Concentration on the process of designing effective learning experiences for adults and developing the competencies of self-directed learning.</td>
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<tr>
<td>ADE 6370</td>
<td>Trainers in Business and Industry</td>
<td>3</td>
<td>ED EDV</td>
<td>A study of trainers in business and industry and acquisition of several key competencies required to fulfill this role.</td>
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<tr>
<td>ADE 6385</td>
<td>The Adult Learner</td>
<td>3</td>
<td>ED EDV</td>
<td>An investigation of the physiological and psychological changes in the adult life span and the implications these have for adult learning capabilities. Concentration on the identification of principles of adult learning, differences between adults and youth as learners, and a review of research on adult learning.</td>
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<tr>
<td>ADE 6946</td>
<td>Practicum in Adult Education</td>
<td>1-6</td>
<td>ED EDV</td>
<td>A problem-centered field study in the local community, school, government, office, social agency, business, or industry setting.</td>
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<tr>
<td>ADE 6971</td>
<td>Thesis: Masters/Education Specialist</td>
<td>2-19</td>
<td>ED EDV</td>
<td>Thesis/Specialist project hours.</td>
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<tr>
<td>ADE 7388</td>
<td>Adult Development and Learning</td>
<td>3</td>
<td>ED EDV</td>
<td>This is an advanced, in-depth study of the distinctive characteristics of adult life and learning.</td>
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<tr>
<td>ADE 7910</td>
<td>Directed Research In Adult</td>
<td>1-4</td>
<td>ED EDV</td>
<td>Directed research on topics related to adult education.</td>
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<tr>
<td>Code</td>
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<tr>
<td>ADE</td>
<td>7937 Seminar in Adult Education</td>
<td>1-4</td>
<td>ED</td>
<td>EDV</td>
<td>PR: Advanced graduate level. Seminar in advanced topics in Adult Education.</td>
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<tr>
<td>ADE</td>
<td>7947 Advanced Internship: Adult Education</td>
<td>1-4</td>
<td>ED</td>
<td>EDV</td>
<td>PR: Advanced graduate level only. S/U.</td>
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<tr>
<td>AFA</td>
<td>5935 Issues in Africana Studies</td>
<td>1-4</td>
<td>AS</td>
<td>AFA</td>
<td>Variable topics course focusing on the history, culture, and lived experiences of Africans, African American, and/or other peoples of African descent worldwide. Rpt. Up to 12 hours as topics vary.</td>
<td></td>
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<tr>
<td>AFA</td>
<td>6101 Social Construction of Race and Racism</td>
<td>3</td>
<td>AS</td>
<td>AFA</td>
<td>Examinations of the social construction of race, racism, racial identities and cross-racial relationships in the US from the colonial period to present.</td>
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<tr>
<td>AFA</td>
<td>6275 Black Women Writers</td>
<td>3</td>
<td>AS</td>
<td>AFA</td>
<td>Black Women Writers focuses on the literature of women of Africa and the African Diaspora. It examines the social, historical, artistic, political, economic, and spiritual lives of Africana women in context of a global community. The course is open to majors and non-majors and is cross-listed with Women's Studies, English and ISS.</td>
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<tr>
<td>AFA</td>
<td>6313 Black English</td>
<td>3</td>
<td>AS</td>
<td>AFA</td>
<td>Black English focuses on linguistic patterns among African Americans in the US, South Central America and the Caribbean. It examines language in relation to issues of domination, education, economics, social stratification, and political empowerment. It is open to majors and non-majors and is cross-listed with ISS.</td>
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<tr>
<td>AFA</td>
<td>6905 Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>AFA</td>
<td>PR: CI, MI. 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.</td>
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<tr>
<td>AFA</td>
<td>6910 Directed Research</td>
<td>1-12</td>
<td>AS</td>
<td>AFA</td>
<td>PR: CI, Departmental Approval. Course consists of directed research on Africana studies topic selected by student and professor. The topics vary. The course allows students to develop research skills and independent work disciplines.</td>
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<td>Code</td>
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<tr>
<td>AFA</td>
<td>6932 Topics in Africana Studies</td>
<td>3</td>
<td>AFA</td>
<td>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.</td>
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<tr>
<td>AFA</td>
<td>6945 Internship</td>
<td>1-3</td>
<td>AFA</td>
<td>This course involves working with a local agency (gov't., NGO, private, etc.) on topic related to the theme of the MA degree, researching and documenting the process and preparing the data for writing the masters thesis.</td>
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<tr>
<td>AML</td>
<td>6017 Studies in American Literature to 1860</td>
<td>3</td>
<td>ENG</td>
<td>Selected focused studies in American literature before 1860: the Puritans, Franklin, Cooper, Irving, Poe, Emerson, Hawthorne, Melville, and others.</td>
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<tr>
<td>AML</td>
<td>6018 Studies in American Literature 1860 to 1920</td>
<td>3</td>
<td>ENG</td>
<td>Selected focused studies in American literature: Dickinson, Whitman, Twain, Howells, James, Jewett, Chopin, Crane, Dreiser, and others.</td>
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<tr>
<td>AML</td>
<td>6027 Studies in Modern American Literature</td>
<td>3</td>
<td>ENG</td>
<td>Modern American drama, poetry, fiction, and literary criticism; authors include Faulkner, Hemingway, Fitzgerald, O'Neill, Miller, Anderson, Wolfe, Cummings, Frost, Pound, and Eliot.</td>
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<tr>
<td>AML</td>
<td>6608 Studies in African American Literature</td>
<td>3</td>
<td>ENG</td>
<td>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.</td>
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<tr>
<td>AMS</td>
<td>6002 American Lives</td>
<td>3</td>
<td>AMS</td>
<td>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.</td>
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</table>
| AMS  | 6156 Theories and                             | 3     | AMS        | This course examines the }
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Type</th>
<th>Department</th>
<th>Description</th>
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<tbody>
<tr>
<td>AMS 6254</td>
<td>Decade in Depth</td>
<td>3</td>
<td>AS</td>
<td>AMS</td>
<td>Open to non-majors. Interdisciplinary analysis of American life during a specific cultural era.</td>
</tr>
<tr>
<td>AMS 6375</td>
<td>The American South</td>
<td>3</td>
<td>AS</td>
<td>AMS</td>
<td>Open to non-majors. Examines the region since Reconstruction through architecture, art, literature, photography, music, history and interdisciplinary perspectives.</td>
</tr>
<tr>
<td>AMS 6805</td>
<td>Major Ideas in American Civilization</td>
<td>3</td>
<td>AS</td>
<td>AMS</td>
<td>Open to non-majors. Investigates the role of one or more influential ideas in American culture, e.g., community, domesticity, democracy, slavery, progressivism, radical reform.</td>
</tr>
<tr>
<td>AMS 6901</td>
<td>Directed Readings in American Studies</td>
<td>1-3</td>
<td>AS</td>
<td>AMS</td>
<td>Open to non-majors. A supervised program of intensive reading.</td>
</tr>
<tr>
<td>AMS 6915</td>
<td>Directed Research</td>
<td>1-12</td>
<td>AS</td>
<td>AMS</td>
<td>Open to non-majors. Variable topics such as American Autobiography, Film in American Culture, and Photography in American Culture.</td>
</tr>
<tr>
<td>AMS 6934</td>
<td>Selected Topics</td>
<td>1-3</td>
<td>AS</td>
<td>AMS</td>
<td>Open to non-majors. Advanced interdisciplinary research. Topics include Popular Culture, Material Culture, Native American Culture.</td>
</tr>
<tr>
<td>AMS 6938</td>
<td>Seminar in American Studies</td>
<td>3</td>
<td>AS</td>
<td>AMS</td>
<td>A structured, out-of-class learning experience providing first hand, practical training in American Studies-related professional careers.</td>
</tr>
<tr>
<td>AMS 6940</td>
<td>Internship in American Studies</td>
<td>1-3</td>
<td>AS</td>
<td>AMS</td>
<td>Individual guidance in concentrated reading on a selected topic in Anthropology. Contract required prior to registration.</td>
</tr>
<tr>
<td>AMS 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>AMS</td>
<td>Individual guidance in selected research project.</td>
</tr>
<tr>
<td>ANG 5901</td>
<td>Directed Reading</td>
<td>1-4</td>
<td>AS</td>
<td>ANT</td>
<td>Individual guidance in selected research project.</td>
</tr>
<tr>
<td>ANG 5910</td>
<td>Individual Research</td>
<td>2-4</td>
<td>AS</td>
<td>ANT</td>
<td>Topics to be chosen by students and instructor.</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
<td>Hours</td>
<td>Department</td>
<td>Prerequisite</td>
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<tr>
<td>ANG 6115</td>
<td>Seminar In Archaeology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS in Anthropology.</td>
</tr>
<tr>
<td>ANG 6118</td>
<td>Topics in Archaeological Science</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: Graduate Standing.</td>
</tr>
<tr>
<td>ANG 6153</td>
<td>Topics in North American Archaeology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: Graduate Standing.</td>
</tr>
<tr>
<td>ANG 6163</td>
<td>Topics in Mesoamerican Archaeology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: Graduate Standing.</td>
</tr>
<tr>
<td>ANG 6165</td>
<td>Topics in South American Archaeology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: Graduate Standing.</td>
</tr>
<tr>
<td>ANG 6175</td>
<td>Topics in Mediterranean Archaeology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: Graduate Standing.</td>
</tr>
<tr>
<td>ANG 6196</td>
<td>Anthropology, Contemporary</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS in Anthropology.</td>
</tr>
<tr>
<td>ANG 6198</td>
<td>Regional Problems in Methods of Public Archaeology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>ANG 6393</td>
<td>Anthropology, Contemporary</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Prerequisite</td>
<td>Description</td>
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</tr>
<tr>
<td>ANG 6447</td>
<td>Selected Topics in Urban Anthropology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>ANG 6448</td>
<td>Regional Problems in Urban Anthropology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>ANG 6463</td>
<td>Social Epidemiology Applied Anthropology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>ANG 6465</td>
<td>Regional Problems in Medical Anthropology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>ANG 6468</td>
<td>Applied Anthropology and International Health</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>ANG 6469</td>
<td>Selected Topics in Medical Anthropology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>ANG 6490</td>
<td>Seminar in Cultural Anthropology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS in Anthropology.</td>
</tr>
<tr>
<td>ANG 6495</td>
<td>Oral History and Life History: Approaches to Qualitative Research</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>ANG 6511</td>
<td>Seminar in Physical Anthropology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS in Anthropology.</td>
</tr>
<tr>
<td>ANG 6676</td>
<td>Seminar in Anthropology</td>
<td>3</td>
<td>AS</td>
<td>ANT</td>
<td>PR: GS in Anthropology.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Division</td>
<td>Grade Requirements</td>
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<tr>
<td>ANG 6701</td>
<td>Contemporary Applied Anthropology</td>
<td>3</td>
<td>ANT</td>
<td>PR: GS.</td>
<td>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.</td>
</tr>
<tr>
<td>ANG 6766</td>
<td>Research Methods in Applied Anthropology</td>
<td>3</td>
<td>ANT</td>
<td>PR: GS.</td>
<td>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.</td>
</tr>
<tr>
<td>ANG 6905</td>
<td>Independent Study</td>
<td>1-19</td>
<td>ANT</td>
<td>S/U. DPR.</td>
<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
</tbody>
</table>
| ANG 6915    | Directed Research Internship                     | 1-19    | ANT      | PR: GR. ML. S/U. DPR. | Emphasizing the process of doingACP ANG 6931

Emphasizing the process of doing

| ANG 6971    | Thesis: Master's                                 | 2-19    | ANT      | DPR.               | 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. |
| ANG 7703    | History and Theory of Applied Anthropology       | 3       | ANT      | PR: 6D in Anthropology. | Development and nature of professional ethics in Applied Anthropology, including legal and quasi-legal regulations pertaining to human subjects research, cultural resources management, historic preservation, privacy, and freedom of information. Open to non-majors. |
| ANG 7704    | Legal and Ethical Aspects of Applied Anthropology | 3       | ANT      | PR: 6D in Anthropology. | Critical review of specific approaches to the development, management, and analysis of sociocultural data. Emphasis on qualitative and quantitative applications of field oriented research designs. Open to non-majors. |
| ANG 7750    | Research Methods in Applied Anthropology         | 3       | ANT      | PR: GS.            | An advanced reading program of selected topics in Applied Anthropology under the supervision of an anthropology faculty member.                                                                               |
| ANG 7905    | Directed Individual Study                        | 1-15    | ANT      | PR: DPR. S/U.      |                                                                                                                                                |
A written contract describing requirements must be signed by the student and faculty member prior to registration.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 7910</td>
<td>Directed Research</td>
<td>1-15</td>
<td>AS ANT</td>
<td>An advanced directed research program in a selected topic of Applied Anthropology under the supervision of an anthropology faculty member.</td>
</tr>
<tr>
<td>ANG 7930</td>
<td>Principles of Human Social Organization</td>
<td>3</td>
<td>AS ANT</td>
<td>A critical cross-cultural examination of principles that underlie the organization of human associations such as kinship, residence, ethnicity, reciprocity, hierarchy, stratification at levels from domestic to multinational organization.</td>
</tr>
<tr>
<td>ANG 7933</td>
<td>Selected Topics in Applied Anthropology</td>
<td>3</td>
<td>AS ANT</td>
<td>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. Open to non-majors.</td>
</tr>
<tr>
<td>ANG 7934</td>
<td>The Clientele of Applied Anthropology</td>
<td>3</td>
<td>AS ANT</td>
<td>Review of the literature and practice of Applied Anthropology focusing on a specific segment or interest group within contemporary society. Typical offerings include: ethnic minorities, age categories, communities, the poor, migrants, public/private organizations, and industry. Open to non-majors.</td>
</tr>
<tr>
<td>ANG 7936</td>
<td>Applied Anthropology and Human Problems</td>
<td>3</td>
<td>AS ANT</td>
<td>Examination of specific problem areas of social significance and policy relevance. Typical offerings include: substance abuse, disease, mental health, international development, urban design, and education. Open to non-majors.</td>
</tr>
<tr>
<td>ANG 7938</td>
<td>Doctoral Proseminar in Applied Anthropology</td>
<td>3</td>
<td>AS ANT</td>
<td>Emphasizing the process of doing \</td>
</tr>
<tr>
<td>ANG 7940</td>
<td>Doctoral Internship in Applied Anthropology</td>
<td>1-15</td>
<td>AS ANT</td>
<td>Supervised training in practicing Anthropology in a non-academic setting, focusing on the applications of Anthropology. A written contract describing requirements must be signed by the student, the faculty advisor, and the agency supervisor.</td>
</tr>
<tr>
<td>Code</td>
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<td>Type</td>
<td>Code</td>
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<tr>
<td>ANG 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-15 AS</td>
<td></td>
<td>ANT</td>
</tr>
<tr>
<td>ARC 5175</td>
<td>Computer Technology</td>
<td>3 AR</td>
<td>ARC</td>
<td>PR: CC.</td>
</tr>
<tr>
<td>ARC 5216</td>
<td>The Building Arts</td>
<td>3 AR</td>
<td>ARC</td>
<td>PR: CC.</td>
</tr>
<tr>
<td>ARC 5256</td>
<td>Design Theory</td>
<td>3 AR</td>
<td>ARC</td>
<td>PR: DPR.</td>
</tr>
<tr>
<td>ARC 5361</td>
<td>Core Design I</td>
<td>9 AR</td>
<td>ARC</td>
<td>PR: CC.</td>
</tr>
<tr>
<td>ARC 5362</td>
<td>Core Design II</td>
<td>9 AR</td>
<td>ARC</td>
<td>PR: ARC 5361, CC.</td>
</tr>
</tbody>
</table>
sequence focusing on synthesis of design concepts and application of ordering principles in architectural design. Emphasis is placed on developing an understanding and awareness of architectural elements and compositions. Students examine the work of significant architects and use it as a basis for design exploration. Graphic documentation, diagramming, and model studies are stressed.

<table>
<thead>
<tr>
<th>ARC 5363</th>
<th>Core Design III</th>
<th>6</th>
<th>AR</th>
<th>ARC</th>
<th>PR: ARC 5362, ARC 5467, ARC 5587, ARC 5731. CO: ARC 5689.</th>
</tr>
</thead>
</table>

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.

<table>
<thead>
<tr>
<th>ARC 5364</th>
<th>Advanced Design A</th>
<th>6</th>
<th>AR</th>
<th>ARC</th>
<th>PR: ARC 5363, CP: ARC 5588, ARC 5467.</th>
</tr>
</thead>
</table>

Application of orderly design processes to building projects of moderate complexity and scale. Continued investigation of the relationship between human behavior and the environment. Analysis and integration of site relationships into the development of design solutions. Legal aspects of zoning, building codes, and regulations regarding access for accessibility, fire escape, etc.

<table>
<thead>
<tr>
<th>ARC 5365</th>
<th>Advanced Design B</th>
<th>6</th>
<th>AR</th>
<th>ARC</th>
<th>PR: ARC 5363, CP: ARC 5588, ARC 5467.</th>
</tr>
</thead>
</table>

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,
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC 5366</td>
<td>Advanced Design C</td>
<td>6</td>
<td>AR</td>
<td>ARC</td>
<td>PR: ARC 5363, CP: ARC 5588, ARC 5467.</td>
</tr>
<tr>
<td>ARC 5467</td>
<td>Materials and Methods of Construction</td>
<td>4</td>
<td>AR</td>
<td>ARC</td>
<td>PR: ARC 5470, CC.</td>
</tr>
<tr>
<td>ARC 5470</td>
<td>Introduction to Technology</td>
<td>3</td>
<td>AR</td>
<td>ARC</td>
<td>Introduction to architectural technology, including structures, materials and methods of construction, and environmental controls. Overview of building systems and components and their integration into architectural design projects.</td>
</tr>
<tr>
<td>ARC 5587</td>
<td>Structures I</td>
<td>3</td>
<td>AR</td>
<td>ARC</td>
<td>PR: Calculus, Physics, and ARC 5470, CC.</td>
</tr>
<tr>
<td>ARC 5588</td>
<td>Structures II</td>
<td>3</td>
<td>AR</td>
<td>ARC</td>
<td>PR: ARC 5587, CC.</td>
</tr>
</tbody>
</table>

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.

Design of multi-purpose buildings of medium to large scale and complexity. Issues of community and neighborhood design as they relate to the design of buildings. Restoration and adaptive re-use of existing historic buildings. Focus on thinking through as well as documenting the complete building system and process.

Overview of properties of primary materials and construction systems which comprise building structure and enclosure. Emphasis on interface and connection of elements and assemblies, relative to climate, assembly processes, costs, codes, and craftsmanship. Lab sessions include field trips to manufacturing facilities, construction sites, and preparation of drawings and models of assemblies.

Lab sessions include field trips to manufacturing facilities, construction sites, and preparation of drawings and models of assemblies.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC 5689</td>
<td>Environmental Technology</td>
<td>4</td>
<td>AR ARC</td>
<td>PR: Physics, ARC 5470, CC.</td>
<td>Comprehensive review of mechanical, electrical, and plumbing systems for buildings. Energy utilization, heating and cooling, water delivery and waste removal, fire protection, illumination, transportation systems, and acoustics. Lab exercises include computer simulations, illumination studies, thermal performance studies.</td>
</tr>
<tr>
<td>ARC 5731</td>
<td>Architectural History I</td>
<td>3</td>
<td>AR ARC</td>
<td></td>
<td>Overview of the built environment from prehistory through the Middle Ages. Buildings and cities in their geographical, topographical, political, aesthetic, social, technological and economic context. Varieties of methodological approaches to the analysis of historical architecture. The focus will be on the built environment of Europe and the Mediterranean basin.</td>
</tr>
<tr>
<td>ARC 5732</td>
<td>Architectural History II</td>
<td>3</td>
<td>AR ARC</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ARC 5789</td>
<td>Modern Architecture History</td>
<td>3</td>
<td>AR ARC</td>
<td>PR: CC, CI.</td>
<td>Exploration of the philosophic, economic, aesthetic, social, historical and moral imperatives used by modern architects and historians in their attempt to design the appropriate physical environment for a new social order. The course will investigate the writings and works of the proponents of the modern style of architecture and study the \</td>
</tr>
<tr>
<td>ARC 5793</td>
<td>History Abroad</td>
<td>3</td>
<td>AR ARC</td>
<td>PR: CC.</td>
<td>Summer study abroad. Location and description varies from year to year.</td>
</tr>
<tr>
<td>ARC 5794</td>
<td>Florida Architectural History</td>
<td>3</td>
<td>AR ARC</td>
<td></td>
<td>An examination of the environmental, sociological, technological, political, economic, cultural, and other factors that</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Corequisites</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>ARC 5920</td>
<td>Architectural Design Studio Abroad</td>
<td>5</td>
<td>AR</td>
<td>ARC</td>
<td>Summer study abroad. Location and description varies from year to year.</td>
</tr>
<tr>
<td>ARC 5931</td>
<td>Special Studies in Architecture</td>
<td>1-5</td>
<td>AR</td>
<td>ARC</td>
<td>Variable titles offered on topics of special interest.</td>
</tr>
<tr>
<td>ARC 6176</td>
<td>Advanced Computer Technology</td>
<td>3</td>
<td>AR</td>
<td>ARC</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 6287</td>
<td>Professional Practice I</td>
<td>3</td>
<td>AR</td>
<td>ARC</td>
<td>Introduction and overview of professional practice, emphasizing business, organization, management, and marketing. Legal, economic, and ethical aspects of project procurement, design services, and delivery. Contracts, owner-contractor-architect roles and responsibilities.</td>
</tr>
<tr>
<td>ARC 6288</td>
<td>Professional Practice II</td>
<td>3</td>
<td>AR</td>
<td>ARC</td>
<td>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.</td>
</tr>
<tr>
<td>ARC 6367</td>
<td>Advanced Design D</td>
<td>6</td>
<td>AR</td>
<td>ARC</td>
<td>Comprehensive studio problems emphasizing the integration of disciplinary and professional skills through the formulation of architectural propositions grounded in critical, speculative, and creative research.</td>
</tr>
<tr>
<td>ARC 6397</td>
<td>Introduction to Urban Design Theory, Methods &amp; Processes</td>
<td>3</td>
<td>AR</td>
<td>ARC</td>
<td>PR: CC. 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,</td>
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</table>
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.

<table>
<thead>
<tr>
<th>ARC Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ARC 6471</td>
<td>Advanced Topics in Materials and Methods</td>
<td>3</td>
<td>AR</td>
<td>ARC 5175, ARC 5587, and ARC 5588, CC. 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.</td>
</tr>
<tr>
<td>ARC 6481</td>
<td>Design Development</td>
<td>4</td>
<td>AR</td>
<td>ARC 5467, ARC 5588, ARC 5689, ARC 5365 Summary course in the technology sequence in which construction, structural, and environmental technology systems are integrated within architectural design projects. Emphasis is placed on the poetic as well as the technical aspects of building systems.</td>
</tr>
<tr>
<td>ARC 6692</td>
<td>Advanced Topics In Environmental Technology</td>
<td>3</td>
<td>AR</td>
<td>ARC 5175, ARC 5689, CC. 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.</td>
</tr>
<tr>
<td>ARC 6971</td>
<td>Master's Project</td>
<td>6</td>
<td>AR</td>
<td>ARC 6974. The Master's Thesis represents the most significant project in the student's academic preparation for a career in architecture, and the demonstration of the student's ability to synthesize learned skills into a convincing independent work of professional quality. The Master's Thesis will typically be a major design project, although the format of a more traditionally academic thesis is also possible. In either case, the student will work with a committee composed of advisors of his/her choice in selecting the topic of the project, organizing and carrying out the work in an independent and self-paced manner. The outcome should be an original project which demonstrates the student's academic and professional competence according to the state of the art.</td>
</tr>
<tr>
<td>ARC 6974</td>
<td>Master's Project</td>
<td>3</td>
<td>AR</td>
<td>ARC 5364, Two of ARC 5364. The Master's Project (ARC 6971) will call for the student's independent</td>
</tr>
</tbody>
</table>
Planning 5365, 5366 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Variable Points</th>
<th>Department</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARE 6262</td>
<td>Management Design for Art Institutions</td>
<td>3</td>
<td>VP</td>
<td>ART</td>
<td>Principles of administration and supervision of art programs in the school and art institutions.</td>
</tr>
<tr>
<td>ARE 6358</td>
<td>Art for the Elementary School Teacher</td>
<td>3</td>
<td>VP</td>
<td>ART</td>
<td>Exploration of various materials and techniques in relationship to current theories about art and the intellectual, creative, emotional, and aesthetic growth of children.</td>
</tr>
<tr>
<td>ARE 6746</td>
<td>Basis of Inquiry Into Artistic Mind</td>
<td>3</td>
<td>VP</td>
<td>ART</td>
<td>An in-depth study of the contemporary basis of inquiry into artistic mind including a multi-disciplined review of literature and research in art education. Includes a visual inquiry project.</td>
</tr>
<tr>
<td>ARE 6844</td>
<td>Experiential and Theoretical Basis of Artistic Mind</td>
<td>3</td>
<td>VP</td>
<td>ART</td>
<td>Experiential and theoretical explorations into past and contemporary philosophies and practices in art and art education.</td>
</tr>
<tr>
<td>ARE 6944</td>
<td>Field Work in Art Education</td>
<td>1-4</td>
<td>VP</td>
<td>EDA</td>
<td>For student with degree-seeking status. Supervised participation in activities related to art education in community centers, nonschool arts program, planned workshop and research.</td>
</tr>
<tr>
<td>ARH 5451</td>
<td>Cultural and Intellectual History of Modern Art</td>
<td>4</td>
<td>VP</td>
<td>ART</td>
<td>A course in which theories of modern artists and of critics and historians of Modernism are treated as a part of general cultural and</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Credits</td>
<td>Restrictions</td>
<td>Description</td>
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<tr>
<td>ARH 5795</td>
<td>Methods of Art History</td>
<td>4</td>
<td>VP</td>
<td>ART</td>
<td>Must be taken during the student's first two semesters in the M.A. program. This course introduces students to various methods which art historians have used to analyze the form and content of individual works of art, and to various modes of historical explanation.</td>
</tr>
<tr>
<td>ARH 5797</td>
<td>Gallery and Museum Internship</td>
<td>2-6</td>
<td>VP</td>
<td>ART</td>
<td>Students are eligible after completing one semester in the program. S/U only. Registration by contract only. By working in Bay Area museums or galleries, students will become familiar with various museological operations. Internships vary owing to the work at hand in particular museums, but possible areas of work include registration, installation, conversation, writing of grants, or museum education.</td>
</tr>
<tr>
<td>ARH 5833</td>
<td>The Atelier, Its Management and History</td>
<td>3</td>
<td>VP</td>
<td>ART</td>
<td>This class will consider the history of printmaking and other forms of collaborative art production through the prism of the atelier and its management.</td>
</tr>
<tr>
<td>ARH 5836</td>
<td>Collection and Exhibition Management</td>
<td>3</td>
<td>VP</td>
<td>ART</td>
<td>PR: Art Advisor's Approval This class will introduce students to the basic principles of collections care and management and to the intellectual and practical tasks of preparing an exhibition. Sessions will include art handling, registration and condition reporting, preparing works of art for transit, environmental standards for collections storage and exhibition, and the professional responsibilities of the curator.</td>
</tr>
<tr>
<td>ARH 5839</td>
<td>Problems in Museum Studies</td>
<td>3</td>
<td>VP</td>
<td>ART</td>
<td>PR: Art Advisor's Approval 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.</td>
</tr>
<tr>
<td>ARH 6055</td>
<td>Art History</td>
<td>4</td>
<td>VP</td>
<td>ART</td>
<td>PR: CI. Registration by contract only. A contract for research in any elective area of Art History.</td>
</tr>
<tr>
<td>ARH 6798</td>
<td>Seminar In Art History</td>
<td>4</td>
<td>VP</td>
<td>ART</td>
<td>Var. Specialized topics in art history.</td>
</tr>
<tr>
<td>ARH 6865</td>
<td>Current Historiograph</td>
<td>4</td>
<td>VP</td>
<td>ART</td>
<td>This course explores current perspectives on problems of intellectual history.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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</tr>
<tr>
<td>ARH 6866</td>
<td>Current Historiography: Baroque-Rococo</td>
<td>4 VP</td>
<td>ART</td>
<td>This course explores current perspectives on problems of Baroque and Rococo historiography.</td>
<td></td>
</tr>
<tr>
<td>ARH 6867</td>
<td>Current Historiography: 19th Century</td>
<td>4 VP</td>
<td>ART</td>
<td>This course explores current perspectives on problems in the historiography of 19th Century Art.</td>
<td></td>
</tr>
<tr>
<td>ARH 6868</td>
<td>Current Historiography: 20th Century</td>
<td>4 VP</td>
<td>ART</td>
<td>Cultural and intellectual history of modern art</td>
<td></td>
</tr>
<tr>
<td>ARH 6891</td>
<td>Paris Art History</td>
<td>4 VP</td>
<td>ART PR: At least 8 hours art history at the undergraduate level</td>
<td>This course will explore issues central to the history and criticism of art through the rich and visual culture that Paris offers. The goal of this course is to provide students with an experience of the cultural life of the city through an exploration of its major art collections, monuments, art collections and historical sites. Thematically-organized topic will include: art and national identity, patronage, orientalism, the birth of the avant-garde and the role of the museum in the evolution of modernism and modern art.</td>
<td></td>
</tr>
<tr>
<td>ART 5422C</td>
<td>Lithography</td>
<td>4 VP</td>
<td>ART PR: ART 4402C, CI, DPR.</td>
<td>Advanced problems in various lithographic techniques. Emphasis on individual creative expression. Repeatable.</td>
<td></td>
</tr>
<tr>
<td>ART 5448C</td>
<td>Intaglio</td>
<td>4 VP</td>
<td>ART PR: CI. Registration by contract only.</td>
<td>Investigations into more complex intaglio processes including photoengraving and color printing procedures. Emphasis on personal conceptual development in graphic media.</td>
<td></td>
</tr>
<tr>
<td>ART 5580C</td>
<td>Painting</td>
<td>4 VP</td>
<td>ART PR: CI. Registration by contract only.</td>
<td>Research in painting</td>
<td></td>
</tr>
<tr>
<td>ART 5790C</td>
<td>Ceramics</td>
<td>4 VP</td>
<td>ART PR: ART 2750C, DPR.</td>
<td>Advanced problems in the various ceramic techniques, including throwing and glaze calculation. Repeatable.</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
<td>Type</td>
<td>Requirements</td>
<td>Description</td>
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</tr>
<tr>
<td>ART 5910</td>
<td>Research</td>
<td>1-4 VP</td>
<td>ART</td>
<td>PR: CI, DPR. Registration by contract only. Repeatable.</td>
<td>Concentration in specialized media or processes. Repeatable.</td>
</tr>
<tr>
<td>ART 5936</td>
<td>Studio Techniques: Selected Projects</td>
<td>2 VP</td>
<td>ART</td>
<td>PR: DPR.</td>
<td>Advanced graduate research in drawing.</td>
</tr>
<tr>
<td>ART 6391C</td>
<td>Drawing</td>
<td>4 VP</td>
<td>ART</td>
<td>PR: CI. Registration by contract only.</td>
<td>Advanced graduate research in drawing.</td>
</tr>
<tr>
<td>ART 6423C</td>
<td>Lithography</td>
<td>4 VP</td>
<td>ART</td>
<td>PR: CI. Registration by contract only.</td>
<td>Advanced graduate research in lithography.</td>
</tr>
<tr>
<td>ART 6449C</td>
<td>Intaglio</td>
<td>4 VP</td>
<td>ART</td>
<td>PR: CI. Registration by contract only.</td>
<td>Advanced graduate research in intaglio process.</td>
</tr>
<tr>
<td>ART 6581C</td>
<td>Painting</td>
<td>4 VP</td>
<td>ART</td>
<td>PR: CI. Registration by contract only.</td>
<td>Advanced graduate research in painting.</td>
</tr>
<tr>
<td>ART 6688</td>
<td>Electronic Media</td>
<td>4 VP</td>
<td>ART</td>
<td>PR: GS, CI, proof of proficiency in media.</td>
<td>Advanced projects in the exploration of the issues and practices involved in the creation of experimental computer art at the graduate level. Emphasis on individual creative expression. May be repeated.</td>
</tr>
<tr>
<td>ART 6791C</td>
<td>Ceramics</td>
<td>4 VP</td>
<td>ART</td>
<td>PR: CI. Registration by contract only.</td>
<td>Advanced graduate research in ceramics.</td>
</tr>
<tr>
<td>ART 6792C</td>
<td>Sculpture</td>
<td>4 VP</td>
<td>ART</td>
<td></td>
<td>Advanced problems in the various techniques of sculpture. Emphasis on individual creative expression. Repeatable.</td>
</tr>
<tr>
<td>ART 6811</td>
<td>Paris Art Studio</td>
<td>3 VP</td>
<td>ART</td>
<td>PR: Dept Approval Required</td>
<td>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.</td>
</tr>
<tr>
<td>ART 6890</td>
<td>Graduate Seminar I</td>
<td>3 VP</td>
<td>ART</td>
<td></td>
<td>This seminar will expand students understanding of the complexities of contemporary art. Students will develop an awareness of current critical theories through readings,</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>VPs</td>
<td>Department</td>
<td>Pre-requisites/Restrictions</td>
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<tr>
<td>ART 6891</td>
<td>Graduate Seminar II</td>
<td>3</td>
<td>VP</td>
<td>ART</td>
<td>PR: Graduate Seminar I.</td>
</tr>
<tr>
<td>ART 6897</td>
<td>Critical Writing Seminar</td>
<td>3</td>
<td>VP</td>
<td>ART</td>
<td>PR: Departmental Permission, Majors Only.</td>
</tr>
<tr>
<td>ART 6907</td>
<td>Independent Study</td>
<td>1-19</td>
<td>VP</td>
<td>ART</td>
<td>PR: CI. Registration by contract only. Achieved candidacy. S/U.</td>
</tr>
<tr>
<td>ART 6911</td>
<td>Directed Research</td>
<td>1-19</td>
<td>VP</td>
<td>ART</td>
<td>PR: CI. Registration by contract only. Achieved candidacy.</td>
</tr>
<tr>
<td>ART 6937</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>VP</td>
<td>ART</td>
<td>S/U. CI. Registration by contract only.</td>
</tr>
<tr>
<td>ART 6940</td>
<td>Selected Topics In Art</td>
<td>1-4</td>
<td>VP</td>
<td>ART</td>
<td>PR: CI. Development/Finalization of MFA Research Project, including the planning and realization of an exhibition and a written document articulating ideas, processes, and sources related to the project. Usually taken during last year.</td>
</tr>
<tr>
<td>ART 6951</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>VP</td>
<td>ART</td>
<td>PR: CI, S/U. Registration by contract only.</td>
</tr>
<tr>
<td>ART 6999</td>
<td>MFA Professional Practices</td>
<td>2</td>
<td>VP</td>
<td>ART</td>
<td></td>
</tr>
<tr>
<td>AST 5506</td>
<td>Introduction to Celestial Mechanics</td>
<td>3</td>
<td>AS</td>
<td>AST</td>
<td>PR: MAC 2313 or MAC 2283 and some</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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</tr>
<tr>
<td>AST</td>
<td>Selected Topics in Astronomy</td>
<td>1-5</td>
<td>AST</td>
<td>PR: Senior or advanced junior standing or CI.</td>
<td>Knowledge of differential equations, or CI. Intensive coverage of special topics to suit needs of advanced students.</td>
</tr>
<tr>
<td>BCH</td>
<td>Biochemistry Core Course</td>
<td>3</td>
<td>CHM</td>
<td>PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing.</td>
<td>A one-semester survey course in biochemistry for graduate students in chemistry, biology, and other appropriate fields and for particularly well-qualified undergraduates. Lec.</td>
</tr>
<tr>
<td>BCH</td>
<td>Biochemistry Laboratory Rotations</td>
<td>1-3</td>
<td>CHM</td>
<td>PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing.</td>
<td>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.</td>
</tr>
<tr>
<td>BCH</td>
<td>Metabolic Basis of Disease</td>
<td>2</td>
<td>MSG</td>
<td>PR: BS degree: Chemistry, Biology, Microbiology, Biochemistry.</td>
<td>The course will deal with the genetic, molecular, and biochemical basis of human diseases.</td>
</tr>
<tr>
<td>BCH</td>
<td>Bioinformatics</td>
<td></td>
<td>CHM</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>BCH</td>
<td>Scientific Writing and Ethics</td>
<td>2</td>
<td>CHM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BME</td>
<td>Theory and Design of Bioprocesses</td>
<td>3</td>
<td>ECH</td>
<td>PR: Senior standing in engineering or CI. Open to majors and non-majors with CI.</td>
<td>Introduction to biotechnology, including applied microbiology, enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.</td>
</tr>
<tr>
<td>BME</td>
<td>Pharmaceutical Engineering</td>
<td>2</td>
<td>ECH</td>
<td>PR: Senior or graduate standing in engineering or CI.</td>
<td>Introduction to pharmaceutical engineering, including dosage forms (tablets, capsules, powders, liquids, topical forms, and aerosols), excipients, regulatory issues, clinical studies, and good manufacturing practices.</td>
</tr>
<tr>
<td>BME</td>
<td>Directed Research in Bioengineering</td>
<td>1-3</td>
<td>ECH</td>
<td>PR: CI.</td>
<td>Directed research in an area of biomedical engineering or engineering biotechnology.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Enrolled</td>
<td>Corequisite</td>
<td>Prerequisite</td>
</tr>
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</tr>
<tr>
<td>BME 5937</td>
<td>Selected Topics in Biomedical Engineering</td>
<td>1-3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: Senior or GS standing in Engineering or CI. Open to non-engineering students with CI.</td>
</tr>
<tr>
<td>BME 6034</td>
<td>Biofluid Mechanics and Bioheat Transfer</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: Graduate standing in engineering or CI.</td>
</tr>
<tr>
<td>BME 6107</td>
<td>Biomaterials and Biocompatibility</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td></td>
</tr>
<tr>
<td>BME 6335</td>
<td>Tissue Biomechanics</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: Graduate standing in engineering or CI.</td>
</tr>
<tr>
<td>BMS 5015</td>
<td>Clinical Diagnosis and Reasoning</td>
<td>var.</td>
<td>ME</td>
<td>MSG</td>
<td></td>
</tr>
<tr>
<td>BMS 5190</td>
<td>Anatomy by Diagnostic Testing</td>
<td>1-20</td>
<td>ME</td>
<td>MSG</td>
<td></td>
</tr>
</tbody>
</table>
A lecture series and a standing display of images for self-studies. Plain radiographs, contrast studies of gastrointestinal and urinary tract, arteriograms, computed tomograms, magnetic resonance, and ultrasound scans of body organs will be displayed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Level</th>
<th>Type</th>
<th>CRN</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS</td>
<td>6100C Gross Anatomy</td>
<td>5-10</td>
<td>ME</td>
<td>MSG</td>
<td>PR: Anatomy Students only.</td>
<td></td>
</tr>
<tr>
<td>BMS</td>
<td>6110 Microscopic Anatomy</td>
<td>5-10</td>
<td>ME</td>
<td>MSG</td>
<td>PR: Anatomy Students only.</td>
<td></td>
</tr>
<tr>
<td>BMS</td>
<td>6206 Molecular Medicine</td>
<td>1-20</td>
<td>ME</td>
<td>MSG</td>
<td>Emphasis of biochemistry, cell biology, and genetic that have immediate relevance for clinical medicine while also providing a fundamental foundation of understanding that will permit life-long learning. The pathogenesis of disease will be understood based on a practical understanding gained from the students address in this course.</td>
<td></td>
</tr>
<tr>
<td>BMS</td>
<td>6300 Principles of Immunology and Infectious Diseases</td>
<td>var.</td>
<td>ME</td>
<td>MSG</td>
<td>This course consists of lectures, laboratory, and small-group conferences. Principles of infectious disease are presented with emphasis on both the characteristics of the causative agent and the host response to colonization activities.</td>
<td></td>
</tr>
<tr>
<td>BMS</td>
<td>7303 Clinical Microbiology and Immunology</td>
<td>var.</td>
<td>ME</td>
<td>MSG</td>
<td>This course will focus on an experiential approach to issues in clinical microbiology and immunology of relevance to the practicing physician.</td>
<td></td>
</tr>
<tr>
<td>BMS</td>
<td>7304 Review of Immune and Infectious Diseases</td>
<td>var.</td>
<td>ME</td>
<td>MSG</td>
<td>This course will focus on a review of the major immune and infectious diseases that may be encountered by the general physician.</td>
<td></td>
</tr>
<tr>
<td>BOT</td>
<td>5185C Marine Botany</td>
<td>4</td>
<td>AS</td>
<td>BIO</td>
<td>PR: BOT 3373C, PCB 3043 or CI.</td>
<td></td>
</tr>
<tr>
<td>BOT</td>
<td>5725C Evolution of Flowering Plants</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>PR: BOT 3373C and BOT 4152C or CI.</td>
<td></td>
</tr>
<tr>
<td>BSC</td>
<td>5931 Selected Topics in Biology</td>
<td>1-4</td>
<td>AS</td>
<td>BIO</td>
<td>PR: CI.</td>
<td></td>
</tr>
<tr>
<td>BSC</td>
<td>6907 Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>BIO</td>
<td>PR: CI. S/U.</td>
<td></td>
</tr>
</tbody>
</table>

Independent study in which student must have a contract with an
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS BIO</td>
<td>PR: CI. S/U.</td>
</tr>
<tr>
<td>BSC 6930</td>
<td>Lectures in Contemporary Biology</td>
<td>1</td>
<td>AS BIO</td>
<td>PR: CC. S/U only.</td>
</tr>
<tr>
<td>BSC 6931</td>
<td>Development and Physiology Seminar</td>
<td>1</td>
<td>AS BIO</td>
<td></td>
</tr>
<tr>
<td>BSC 6932</td>
<td>Selected Topics in Biology</td>
<td>1-4</td>
<td>AS BIO</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>BSC 6935</td>
<td>Graduate Seminar in Biology</td>
<td>1</td>
<td>AS BIO</td>
<td>PR: CI. S/U.</td>
</tr>
<tr>
<td>BSC 6936</td>
<td>Scientific Grant Writing</td>
<td>3</td>
<td>AS BIO</td>
<td></td>
</tr>
<tr>
<td>BSC 6945</td>
<td>Graduate Instruction Methods</td>
<td>1-3</td>
<td>AS BIO</td>
<td>PR: CI. S/U only.</td>
</tr>
<tr>
<td>BSC 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS BIO</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>BSC 7936</td>
<td>Doctoral Seminar</td>
<td>1</td>
<td>AS BIO</td>
<td>PR: 90 semester hours post B.S.</td>
</tr>
<tr>
<td>BSC 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>AS BIO</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>BTE 5171</td>
<td>Curriculum Construction: Business Education</td>
<td>3</td>
<td>ED EDV</td>
<td></td>
</tr>
<tr>
<td>BTE 6944</td>
<td>Practicum: Business Education</td>
<td>3-6</td>
<td>ED EDV</td>
<td></td>
</tr>
<tr>
<td>BUL 5332</td>
<td>Law and the Accountant</td>
<td>3</td>
<td>BA GBA</td>
<td>PR: BUL 3320 or CI.</td>
</tr>
</tbody>
</table>

This Biology lecture series includes a diversity of contemporary topics including: molecular regulatory mechanics, evolutionary genetics, organismal physiology and community ecology.

A critical examination and discussion of current literature of physiology and development of living organism, including cells.

Course provides instruction on becoming a successful grant writer as well as understanding the grant proposal writing and review process. Responsibilities of the principle investigator for compliance, fiscal matters, and scientific management of the funded grant will also be covered with guest lecturers from the Division of Sponsored Research.

Special course to be used primarily for the training of teaching assistants.

Graduating Ph.D. students will present a formal seminar based upon their dissertation to the Department of Biology and the public. Restricted to majors.

Curriculum scope, the process of planning and organizing instructional programs with emphasis on task analysis and process evaluation.

A problem-centered field study in the local community, school, government, office, social agency, business, or industry.

A comprehensive study of commercial law as it affects the practice of accounting.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Primary Language</th>
<th>Secondary Language</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 5400</td>
<td>Digital Image Processing</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: EEL 4851C or GS.</td>
<td>Image formation, sources of image degradation, image enhancement techniques, edge detection operators and threshold selection, low-level processing algorithms for vision, image data compression.</td>
</tr>
<tr>
<td>CAP 5625</td>
<td>Introduction to Artificial Intelligence</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: EEL 4851C or GS.</td>
<td>Basic concepts, tools, and techniques used to produce and study intelligent behavior. Organizing knowledge, exploiting constraints, searching spaces, understanding natural languages, and problem solving strategies.</td>
</tr>
<tr>
<td>CAP 5682</td>
<td>Expert And Intelligent Systems</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: EEL 4851C or GS.</td>
<td>Basic concepts, techniques and tools for the design and implementation of expert and intelligent systems. Knowledge representation, inference methods, knowledge acquisition methods, and some advanced concepts. Tools to facilitate construction of expert and intelligent systems.</td>
</tr>
<tr>
<td>CAP 6100</td>
<td>Human Computer Interface</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: CI.</td>
<td>Introduction to the design and evaluation of the interface between a computer based application and a human user.</td>
</tr>
<tr>
<td>CAP 6415</td>
<td>Computer Vision</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: CAP 5400.</td>
<td>Techniques for description and recognition of objects, use of stereo, texture, and motion information for scene segmentation and description, consistent labeling and matching, use of knowledge and planning in computer vision.</td>
</tr>
<tr>
<td>CAP 6615</td>
<td>Neural Networks</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: CAP 5600.</td>
<td>Defines models of artificial neural networks, compares these models, and investigates the relationship of neural network learning to other symbolic learning methods.</td>
</tr>
<tr>
<td>CAP 6638</td>
<td>Geometric/Statistical Pattern Recognition Technology</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: CI.</td>
<td></td>
</tr>
<tr>
<td>CAP 6672</td>
<td>Robot Intelligence and Computer Vision</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: COP 2400 or equiv.</td>
<td>An introduction to robotic systems with emphasis on the computational aspects of robot control. Topics for discussion: overview of the robotics field, analysis of robot arm kinematics and coordinate transformation, real-time computer control of robot arms, and computer vision. Practical experience in programming robotic systems will be included.</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Requirement</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>CCE</td>
<td>5035 Construction Management &amp; Planning</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.</td>
<td></td>
</tr>
<tr>
<td>CCJ</td>
<td>6050 Pro Seminar in Criminology</td>
<td>1</td>
<td>AS</td>
<td>CJP</td>
<td>This course familiarizes students with the basic methods of criminological research; overviews philosophy of science, research ethics, research design issues such as sampling and measurement, and methods of data collection, including survey, experimental, and evaluation research.</td>
<td></td>
</tr>
<tr>
<td>CCJ</td>
<td>6285 Law, Crime and Justice</td>
<td>4</td>
<td>AS</td>
<td>CJP</td>
<td>Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.</td>
<td></td>
</tr>
<tr>
<td>CCJ</td>
<td>6406 Theory, Practice, and Research in Law Enforcement</td>
<td>3</td>
<td>AS</td>
<td>CJP</td>
<td>Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.</td>
<td></td>
</tr>
<tr>
<td>CCJ</td>
<td>6605 Theoretical Approaches to Criminal Behavior</td>
<td>4</td>
<td>AS</td>
<td>CJP</td>
<td>Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.</td>
<td></td>
</tr>
<tr>
<td>CCJ</td>
<td>6705 Research Methods in Criminology</td>
<td>4</td>
<td>AS</td>
<td>CJP</td>
<td>Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.</td>
<td></td>
</tr>
<tr>
<td>CCJ</td>
<td>6706 Quantitative Analysis in Criminology I</td>
<td>4</td>
<td>AS</td>
<td>CJP</td>
<td>Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.</td>
<td></td>
</tr>
<tr>
<td>CCJ</td>
<td>6707 Quantitative Analysis in Criminology II</td>
<td>4</td>
<td>AS</td>
<td>CJP</td>
<td>Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.</td>
<td></td>
</tr>
<tr>
<td>CCJ</td>
<td>6708 Quantitative Analysis in Criminology II</td>
<td>4</td>
<td>AS</td>
<td>CJP</td>
<td>Provides a forum for presentation and discussion of research ideas by faculty, students, and guests, with a view toward the development of thesis topics.</td>
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</tr>
</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Additional Information</th>
</tr>
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<tbody>
<tr>
<td>CCJ 6709</td>
<td>Qualitative Methods in Criminology</td>
<td>3</td>
<td>PR: CCJ 6705.</td>
</tr>
<tr>
<td></td>
<td>An in-depth analysis and discussion of several qualitative perspectives and corresponding methodological designs as they pertain to criminological research and inquiry.</td>
<td></td>
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</tr>
<tr>
<td>CCJ 6716</td>
<td>Evaluation Research in Criminology</td>
<td>3</td>
<td>PR: CCJ 6705.</td>
</tr>
<tr>
<td></td>
<td>This course provides basic and advanced methods of evaluation research in a real world environment, paying particular attention to the idiosyncrasies of working with and within the Criminal Justice System. Grant preparation, survey techniques, and research design will be covered along with the policies, pressures, and peculiarities associated with evaluating agencies.</td>
<td></td>
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<tr>
<td>CCJ 6905</td>
<td>Directed Independent Study</td>
<td>1-12</td>
<td>PR: Majors only.</td>
</tr>
<tr>
<td></td>
<td>Independent study in which student must have contract with instructor.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCJ 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>PR: Cl. S/U.</td>
</tr>
<tr>
<td></td>
<td>This course is designed to review and analyze the major issues and dilemmas that confront corrections today, including overcrowding, inmate rights, privatization, control of gangs, control of inmates, and the availability or programs and services. Attention will also focus on the strategies and/or controversies associated with these issues.</td>
<td></td>
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</tr>
<tr>
<td>CCJ 6930</td>
<td>Current Issues in Corrections</td>
<td>3</td>
<td>PR: Cl. Repeatable with different subject matter.</td>
</tr>
<tr>
<td></td>
<td>This course is designed to provide an in-depth analysis of specific theoretical issues in criminology.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCJ 6931</td>
<td>Seminar in Criminological Theory</td>
<td>3</td>
<td>PR: CCJ 6605. Repeatable with different subject matter.</td>
</tr>
<tr>
<td></td>
<td>Analysis and discussion of topics of major concern in criminology and criminal justice that are not covered in regular courses.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CCJ 6935</td>
<td>Topics in Criminology and Criminal Justice</td>
<td>3</td>
<td>PR: Cl.</td>
</tr>
<tr>
<td></td>
<td>This course is designed to review and analyze the major issues and dilemmas that confront corrections today, including overcrowding, inmate rights, privatization, control of gangs, control of inmates, and the availability or programs and services. Attention will also focus on the strategies and/or controversies associated with these issues.</td>
<td></td>
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</tr>
<tr>
<td>CCJ 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>PR: Cl.</td>
</tr>
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<td></td>
<td>PR: GS in the Department and Cl. Required of students not using the thesis option. Maximum of 3 hours toward the Master's</td>
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<tr>
<td>CCJ 6974</td>
<td>Area Project</td>
<td>1-12</td>
<td>PR: CJP</td>
</tr>
<tr>
<td></td>
<td>PR: GS in the Department and Cl. Required of students not using the thesis option. Maximum of 3 hours toward the Master's</td>
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<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>CCJ 7910</td>
<td>Advanced Research</td>
<td>1-12</td>
<td>AS</td>
</tr>
<tr>
<td>CCJ 7980</td>
<td>Doctoral Dissertation</td>
<td>2-12</td>
<td>AS</td>
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<tr>
<td>CEG 5115</td>
<td>Foundation Engineering</td>
<td>3</td>
<td>EN</td>
</tr>
<tr>
<td>CEG 5205</td>
<td>Laboratory Testing for Geotechnical Engineers</td>
<td>3</td>
<td>EN</td>
</tr>
<tr>
<td>CEG 6015</td>
<td>Advanced Geotechnical Topics</td>
<td>3</td>
<td>EN</td>
</tr>
<tr>
<td>CEG 6065</td>
<td>Soil Dynamics</td>
<td>3</td>
<td>EN</td>
</tr>
<tr>
<td>CEG 6415</td>
<td>Seepage and Subsurface Drainage</td>
<td>3</td>
<td>EN</td>
</tr>
<tr>
<td>CES 5105C</td>
<td>Advanced Mechanics of Materials I</td>
<td>3</td>
<td>EN</td>
</tr>
<tr>
<td>CES 5209</td>
<td>Structural Dynamics</td>
<td>3</td>
<td>EN</td>
</tr>
<tr>
<td>CES 5715C</td>
<td>Prestressed Concrete</td>
<td>3</td>
<td>EN</td>
</tr>
<tr>
<td>CES 6103</td>
<td>Experimental Stress Analysis</td>
<td>3</td>
<td>EN</td>
</tr>
<tr>
<td>CES 6107C</td>
<td>Advanced Mechanics</td>
<td>3</td>
<td>EN</td>
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<td>Department</td>
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<tr>
<td>CES 6326</td>
<td>Design of Concrete Bridges</td>
<td>3</td>
<td>EN EGX</td>
</tr>
<tr>
<td>CES 6586</td>
<td>Design of Structures to Resist Natural Hazards</td>
<td>3</td>
<td>EN EGX</td>
</tr>
<tr>
<td>CES 6609</td>
<td>Advanced Steel Design</td>
<td>3</td>
<td>EN EGX</td>
</tr>
<tr>
<td>CES 6716</td>
<td>Design of Continuous Post-Tensioned Structures</td>
<td>3</td>
<td>EN EGX</td>
</tr>
<tr>
<td>CES 6726</td>
<td>Advanced Concrete Design</td>
<td>3</td>
<td>EN EGX</td>
</tr>
<tr>
<td>CGN 5933</td>
<td>Special Topics in Civil Engineering</td>
<td>1-5</td>
<td>EN EGX</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
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<tr>
<td>CGN 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>EN</td>
</tr>
<tr>
<td>CGN 6915</td>
<td>Directed Research</td>
<td>1-19</td>
<td>EN</td>
</tr>
<tr>
<td>CGN 6933</td>
<td>Special Topics in Civil and Environmental Engineering</td>
<td>1-4</td>
<td>EN</td>
</tr>
<tr>
<td>CGN 6941</td>
<td>Graduate Instruction Methods</td>
<td>1-5</td>
<td>EN</td>
</tr>
<tr>
<td>CGN 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>EN</td>
</tr>
<tr>
<td>CGN 7980</td>
<td>Dissertation Doctoral</td>
<td>2-19</td>
<td>EN</td>
</tr>
<tr>
<td>CGS 5765</td>
<td>Introduction to Unix and C</td>
<td>3</td>
<td>EN</td>
</tr>
<tr>
<td>CGS 6210</td>
<td>Microcomputer Hardware Systems for Education</td>
<td>3</td>
<td>ED</td>
</tr>
<tr>
<td>CHM 5226</td>
<td>Intermediate Organic Chemistry II</td>
<td>3</td>
<td>AS</td>
</tr>
</tbody>
</table>

An introduction to synthetic organic chemistry for graduate students and advanced undergraduates. Lec.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-Requisites</th>
<th>Prerequisites</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CHM 5425</td>
<td>Applications in Physical Chemistry</td>
<td>3</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CHM 4412 and CHM 4410 or CI or GS. Applications of chemical theory to chemical systems.</td>
</tr>
<tr>
<td>CHM 5452</td>
<td>Polymer Chemistry</td>
<td>3</td>
<td>AS</td>
<td>CHM</td>
<td>PR: Either CHM 2211, CHM 2211L, and CHM 3400 or CHM 4410 or graduate standing. Fundamentals of polymer synthesis, structure, properties, and characterization.</td>
</tr>
<tr>
<td>CHM 5621</td>
<td>Principles of Inorganic Chemistry</td>
<td>3</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CHM 4411, CHM 4610 or CI or GS. Chemical forces, reactivity, periodicity, and literature in organic chemistry; basic core course. Lec.</td>
</tr>
<tr>
<td>CHM 5931</td>
<td>Selected Topics in Chemistry</td>
<td>1-3</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CI. 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.</td>
</tr>
<tr>
<td>CHM 6150</td>
<td>Advanced Analytical Chemistry</td>
<td>3</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CI. A study of complete analytical process, including sample handling, separations, the analysis step, and statistical interpretation of data. Emphasis placed on separations and statistics. Lec.</td>
</tr>
<tr>
<td>CHM 6260</td>
<td>Advanced Organic Chemistry II: Physical-Organic</td>
<td>3</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CHM 5225 or CI. Organic reaction mechanisms emphasizing the interpretation of experimental data.</td>
</tr>
<tr>
<td>CHM 6280</td>
<td>Advanced Organic Chemistry III: Natural Products</td>
<td>3</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CHM 5225 or CI. A study of any of several of the following topics: terpenes, steroids, vitamins, alkaloids, phophyrins, purine, and antibiotics.</td>
</tr>
<tr>
<td>CHM 6460</td>
<td>Statistical Thermodynamics</td>
<td>3</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CI. Application of statistical mechanics to the thermodynamics; relation of molecular structure to thermodynamic properties. Lec.</td>
</tr>
<tr>
<td>CHM 6480</td>
<td>Quantum Chemistry</td>
<td>3</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CI. Introduction to elementary quantum mechanism. Atomic structure and spectra. Lec.</td>
</tr>
<tr>
<td>CHM 6650</td>
<td>Structural Inorganic Chemistry</td>
<td>3</td>
<td>AS</td>
<td>CHM</td>
<td>PR: CHM 5621 or CI. Modern theories of bonding and structure of inorganic compounds, including coordination theory, stereo-chemistry, solution equilibria,</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Schedule</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>CHM 6907</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS CHM</td>
<td>S/U.</td>
<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>CHM 6935</td>
<td>Graduate Seminars in Chemistry</td>
<td>1</td>
<td>AS CHM</td>
<td>PR: Admission to graduate program in Chemistry. S/U.</td>
<td>Required every semester (when offered) for all students enrolled in Chemistry graduate program. Requires participation in and attendance at the weekly departmental seminar.</td>
</tr>
<tr>
<td>CHM 6936</td>
<td>Chemistry Colloquium</td>
<td>1</td>
<td>AS CHM</td>
<td>PR: Admission to graduate program in Chemistry. S/U.</td>
<td>Frequent (usually weekly) small-group analysis of current developments.</td>
</tr>
<tr>
<td>CHM 6938</td>
<td>Selected Topics in Chemistry</td>
<td>1-3</td>
<td>AS CHM</td>
<td>PR: CI.</td>
<td>Representative titles taught include: Symmetry and Group Theory, Photochemical Kinetics, Quantum Mechanical Calculations, Advanced Chemical Thermodynamics, Reaction Mechanisms, Advanced Instrumentation, Separations and Characterizations, Spectroscopy, etc.</td>
</tr>
<tr>
<td>CHM 6946</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>AS CHM</td>
<td>S/U.</td>
<td>Special course for the training of teaching assistants.</td>
</tr>
<tr>
<td>CHM 6973</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS CHM</td>
<td>PR: GR. M.L. S/U.</td>
<td></td>
</tr>
<tr>
<td>CIS 6900</td>
<td>Independent Study</td>
<td>1-19</td>
<td>EN ESB</td>
<td>PR: GS, majors only. S/U.</td>
<td>Independent study in which students must have a contract with an instructor. Requires completed contract prior to enrollment.</td>
</tr>
<tr>
<td>CIS 6910</td>
<td>Computer Science Graduate Project</td>
<td>3</td>
<td>EN ESB</td>
<td>PR: CI, majors only. S/U.</td>
<td>Computer science engineering project that may be taken by graduate students in place of Master's thesis. Requires completed contract prior to enrollment.</td>
</tr>
<tr>
<td>CIS 6911</td>
<td>Graduate Research Methods</td>
<td>1-4</td>
<td>EN ESB</td>
<td>PR: GS, majors only. S/U.</td>
<td>Special course to train graduate research assistants. Var. Rpt. to a total of 4 credits. Requires completed contract prior to enrollment.</td>
</tr>
<tr>
<td>CIS 6930</td>
<td>Special Topics</td>
<td>3</td>
<td>EN ESB</td>
<td>PR: CI.</td>
<td>Special course to train graduate teaching assistants.</td>
</tr>
<tr>
<td>CIS 6940</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>EN ESB</td>
<td>Majors only. S/U.</td>
<td>Special course to train graduate teaching assistants.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Degree</td>
<td>Description</td>
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<tr>
<td>CIS 6971</td>
<td>Thesis: Master’s</td>
<td>2-19 EN</td>
<td>EN</td>
<td>PR: GS, majors only. S/U.</td>
<td></td>
</tr>
<tr>
<td>CIS 7910</td>
<td>Directed Research</td>
<td>1-19 EN</td>
<td>EN</td>
<td>PR: GR. Ph.D. level, majors only. S/U. Requires completed contract prior to enrollment.</td>
<td></td>
</tr>
<tr>
<td>CIS 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19 EN</td>
<td>EN</td>
<td>PR: Admission to Doctoral Candidacy.</td>
<td></td>
</tr>
<tr>
<td>CJC 6020</td>
<td>Theory, Practice, and Research in Corrections</td>
<td>3 AS</td>
<td>CJP</td>
<td>PR: CI. Examination of the interrelationships between theory and practice in corrections, as these are affected by empirical research and systematic program evaluation.</td>
<td></td>
</tr>
<tr>
<td>CLP 6166</td>
<td>Psychopathology</td>
<td>3 AS</td>
<td>PSY</td>
<td>PR: Admission to graduate program in Psychology or CI.</td>
<td></td>
</tr>
<tr>
<td>CLP 6438</td>
<td>Psychological Assessment: Theory and Research</td>
<td>1-4 AS</td>
<td>PSY</td>
<td>PR: CI. Courses cover theory, research, and applications of psychological assessment in areas, such as interviewing, intellectual and cognitive functioning, neuropsychodiagosis, and personality testing.</td>
<td></td>
</tr>
<tr>
<td>CLP 6937</td>
<td>Topics in Clinical Psychology</td>
<td>1-3 AS</td>
<td>PSY</td>
<td>PR: CI. Courses on topics, such as humanistic psychology, community psychology, and clinical neuropsychology.</td>
<td></td>
</tr>
<tr>
<td>CLP 7188</td>
<td>Clinical Psychology Interventions</td>
<td>1-4 AS</td>
<td>PSY</td>
<td>PR: CI. Study of the theoretical, empirical, and applied foundations of the major systems of therapeutic intervention.</td>
<td></td>
</tr>
<tr>
<td>CLP 7379</td>
<td>Graduate Seminar in Clinical-Community Psychology</td>
<td>1-3 AS</td>
<td>PSY</td>
<td>PR: CI. Seminars on topics, such as psychopathology, community psychology, clinical issues, personality, and developmental psychology.</td>
<td></td>
</tr>
<tr>
<td>COM 5930</td>
<td>Topics in Communication Studies</td>
<td>3 AS</td>
<td>SPE</td>
<td>Topical issues in communication.</td>
<td></td>
</tr>
<tr>
<td>COM 6001</td>
<td>Theories and Histories of Communication</td>
<td>3 AS</td>
<td>SPE</td>
<td>Required of all M.A. and Ph.D. students. 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.</td>
<td></td>
</tr>
<tr>
<td>COM 6017</td>
<td>Gender in the Workplace</td>
<td>3 AS</td>
<td>SPE</td>
<td>PR: Graduate Standing. This course focuses on the workplace as a site of gendered communication practices. A variety of work settings will be analyzed in terms of how they construct gender identities, reinforce public-private distinctions and maintain traditional career models.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Credits</td>
<td>Pre-Requisites</td>
<td>Description</td>
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<tr>
<td>COM 6025</td>
<td>Health Communication</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>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.</td>
</tr>
<tr>
<td>COM 6045</td>
<td>Communicating Leadership</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Effective leadership today focuses less on control and more on the strategic use of communication to build relationships and guide behavior. This course examines the various ways leaders can communicate more effectively in contemporary organizations.</td>
</tr>
<tr>
<td>COM 6121</td>
<td>Organizational Communication</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>A study of communication theory and behavior within organizational settings: role of communication, communication climates, communication networks, leadership.</td>
</tr>
</tbody>
</table>
| COM 6248    | Historical Perspectives on Communication         | 3     | AS      | SPE                 | Explores prominent figures and theoretical movements in area of Communication (Interpersonal or Organizational Communication, Cultural Studies, Rhetorical Studies, or Performance Studies). [Repeatable for credit as topics vary.]
<p>| COM 6306    | Action Research                                  | 3     | AS      | SPE                 | Action research is rooted in engagement, involving collaboration with community or organizational partners who will be affected by the research. Through hands-on projects we learn principles of action research and explore communication and ethical issues.                                                                                      |
| COM 6313    | Interpreting Communication Research              | 3     | AS      | SPE                 | This course is designed to give students tools to help them interpret the mainstream research literature in communication and to judge research on a quality continuum. No assumptions are made about student understanding of quantitative research methods.                                                                                     |
| COM 6345    | Contemporary Cultural Studies                    | 3     | AS      | SPE                 | Examines theoretical issues and interpretive approaches for exploring questions of knowledge, identity, experience, meaning and value in modern culture through the study of communication.                                                                                                    |
| COM 6400    | Communication Theory                             | 3     | AS      | SPE                 | An examination of communication theory through selected reading in the works of major theorists past and present.                                                                                                                                                                                                                      |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6418</td>
<td>Communication and Systems Practice</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>PR: Graduate Standing. 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.</td>
</tr>
<tr>
<td>COM 6605</td>
<td>Media Studies</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>PR: GS. Study of the impact of mass and mediated forms of communication on individuals, groups, societies, and cultures. Several theoretical and critical perspectives are considered.</td>
</tr>
<tr>
<td>COM 6724</td>
<td>Communication Training in Organizations</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>PR: Graduate Standing. 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.</td>
</tr>
<tr>
<td>COM 7325</td>
<td>Seminar in Communication Research Methods</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Required of all Ph.D. students. Also required of all M.A. students wishing to pursue the thesis option. Examines the research practices and methodologies of communication as a discipline, including bibliographical resources, research designs, research techniques, and forms of scholarly presentation.</td>
</tr>
<tr>
<td>COM 7933</td>
<td>Seminar in Communication Studies</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>PR: GS. Variable topics course.</td>
</tr>
<tr>
<td>COP 6611</td>
<td>Operating Systems</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: CC, majors only. Operating systems functions and design, resource management, protection systems, process communication, and deadlocks.</td>
</tr>
<tr>
<td>COP 6621</td>
<td>Programming Languages and Translation</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: CI, majors only. Grammars and languages, symbols, strings, syntax, parsing, the design of a compiler, storage organization and symbol tables, translator writing systems.</td>
</tr>
<tr>
<td>COT 6405</td>
<td>Introduction to the Theory of Algorithms</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: COT 3100, COT 4400, or equiv. GS or CI. 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.</td>
</tr>
<tr>
<td>CPO 5934</td>
<td>Selected Topics in Comparative Politics</td>
<td>3</td>
<td>AS</td>
<td>POL</td>
<td>Sr./GS. Studies specific substantive areas in Comparative Politics, such as political economy or the politics of specific countries or regions.</td>
</tr>
<tr>
<td>CPO 6036</td>
<td>Politics of</td>
<td>3</td>
<td>AS</td>
<td>POL</td>
<td>Sr./GS. Advanced study of ideologies.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
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<td>Department</td>
<td>Notes</td>
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<tr>
<td>CPO 6091</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
<td>AS</td>
<td>POL GS</td>
<td>Extensive examination of the major theories and approaches used in the study of Comparative Politics. Seminar format.</td>
</tr>
<tr>
<td>CRW 6130</td>
<td>Fiction Writing</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>A study of the process of fiction writing and the artistic demands associated with its forms, from microfiction to the novel.</td>
</tr>
<tr>
<td>CRW 6164</td>
<td>The Craft of Fiction</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>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).</td>
</tr>
<tr>
<td>CRW 6236</td>
<td>Nonfiction Writing</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>An exploration of the different types of nonfiction writing, such as memoir, travel, nature, commentary, book review, essay, and biography.</td>
</tr>
<tr>
<td>CRW 6331</td>
<td>Poetry Writing</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>A study of the process of poetry writing and the demands associated with its form, both free verse and metrical.</td>
</tr>
<tr>
<td>CRW 6352</td>
<td>The Craft of Poetry</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>An intensive examination of established schools of poetic writing: their themes, imagery, and approach to subject matter. Students also will write and submit original poetry for private and group constructive evaluation.</td>
</tr>
<tr>
<td>CWR 6235</td>
<td>Free Surface Flow</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>Fundamental and applied aspects of free surface flow, including river hydraulics, canal flow, and open channel design.</td>
</tr>
<tr>
<td>CWR 6239</td>
<td>Waves and Beach Protection</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>A study of the fundamentals of shoreline dynamics including distribution of wave energy, motion of beach sand, stable configurations and protective measures.</td>
</tr>
<tr>
<td>CWR 6305</td>
<td>Urban Hydrology</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>A study of the quantity and quality problems and solution techniques associated with urban runoff.</td>
</tr>
<tr>
<td>CWR 6533</td>
<td>Water Quality Modeling</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>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</td>
</tr>
</tbody>
</table>
representations of environmental transport and transformation processes will be elucidated. Models of different complexity will be applied to a variety of environmental contexts.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWR 6534</td>
<td>Coastal and Estuary Modeling</td>
<td>3</td>
<td>EN</td>
<td>EGX, PR: CI, majors only.</td>
<td>Digital modeling of coastal and estuary systems, currents tide heights, sediment transport, erosion, data collection, temperature distribution, source and sinks. Special emphasis on Florida regions.</td>
</tr>
<tr>
<td>CWR 6535</td>
<td>Hydrologic Models</td>
<td>3</td>
<td>EN</td>
<td>EGX, PR: CI, majors only.</td>
<td>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.</td>
</tr>
<tr>
<td>CWR 6538</td>
<td>Advanced Hydrologic Models</td>
<td>3</td>
<td>EN</td>
<td>EGX, PR: CWR 6535 and GLY 6739.</td>
<td>To present the theoretical and applied concepts of advanced hydrologic modeling and especially integrated surface water/ground water modeling and to examine various numerical hydrologic models used in engineering practice.</td>
</tr>
<tr>
<td>CWR 6820</td>
<td>Coastal Waves And Structures</td>
<td>3</td>
<td>EN</td>
<td>EGX, PR: CI, majors only.</td>
<td>Fundamentals of wave motion and the mutual interaction of waves and structures. A design project is included.</td>
</tr>
<tr>
<td>DEP 6058</td>
<td>Developmental Psychology</td>
<td>3</td>
<td>AS</td>
<td>PSY, PR: Admission to graduate program in Psychology or CI.</td>
<td>Basic survey of research and theory in human developmental processes.</td>
</tr>
<tr>
<td>DEP 6136</td>
<td>Language Development</td>
<td>3</td>
<td>AS</td>
<td>PSY, PR: Admission to graduate program in Psychology or Communication Sciences and Disorders or CI.</td>
<td>Explores the course of and processes underlying normal language development. Presents data and theory on phonological, semantic, syntactic, and pragmatic development, with emphasis on recent research.</td>
</tr>
<tr>
<td>ECH 5324</td>
<td>Automatic Process Control II</td>
<td>3</td>
<td>EN</td>
<td>ECH, PR: ECH 4323C or CI, majors only / 2 hrs lec., 3 hrs. lab/week.</td>
<td>The course covers the root locus and frequency response methods to study stability of control loops. The techniques of ratio, cascade, feed forward, selective, override, and multi-variable control techniques are discussed in detail and shown how to utilize to design control systems, z-transforms and discrete controllers including PID, Dahlin and deadline compensation.</td>
</tr>
<tr>
<td>ECH 5740</td>
<td>Theory and Design of</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>Introduction to biotechnology, including applied microbiology.</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Units</td>
<td>Credits</td>
<td>Prerequisite(s)</td>
<td>Description</td>
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<tr>
<td>ECH 5742</td>
<td>Bioprocesses</td>
<td>2</td>
<td>EN</td>
<td>ECH</td>
<td>enzyme technology, biomass production, bioreactor design, and transport processes in biosystems.</td>
</tr>
<tr>
<td>ECH 5742</td>
<td>Pharmaceutic al Engineering</td>
<td>2</td>
<td>EN</td>
<td>ECH</td>
<td>Introduction to pharmaceutical engineering, including dosage forms (tablets, capsules, powders, liquids, topical forms, and aerosols), recipients, regulatory issues, clinical studies, and good manufacturing practices.</td>
</tr>
<tr>
<td>ECH 5747C</td>
<td>Selected Topics in Chemical Engineering Biotechnology</td>
<td>1-3</td>
<td>EN</td>
<td>ECH</td>
<td>Selected topics in engineering in biotechnology, including cell separation technology, immobilized enzymes and cells, food engineering, biohazardous waste, and bioseparations.</td>
</tr>
<tr>
<td>ECH 5820</td>
<td>Product Development</td>
<td>2</td>
<td>EN</td>
<td>ECH</td>
<td>Introduction to the development of consumer products, including the history of innovation, creativity development, the product development environment, and a detailed examination of several product areas.</td>
</tr>
<tr>
<td>ECH 5930</td>
<td>Special Topics III</td>
<td>1-4</td>
<td>EN</td>
<td>ECH</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>ECH 5931</td>
<td>Special Topics IV</td>
<td>1-4</td>
<td>EN</td>
<td>ECH</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>ECH 6105</td>
<td>Advanced Thermodynamics I</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: CC, Majors only. Selected topics in classical and irreversible thermodynamics.</td>
</tr>
<tr>
<td>ECH 6107</td>
<td>Selected Topics in Advanced Thermodynamics</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: GS or CI. Advanced selected topics in Ch.E. Thermodynamics such as: molecular and statistical thermo, adv. phase and chemical equilibria, etc.</td>
</tr>
<tr>
<td>ECH 6230</td>
<td>Advanced Mass Transfer</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: ECH 5285 or equiv. Advanced topics in mass transfer, including the mathematical description and solution of homogeneous and heterogeneous reacting systems, unsteady state, simultaneous heat and/or fluid transfer, particulate processes, and interfacial transport.</td>
</tr>
<tr>
<td>ECH 6285</td>
<td>Advanced Transport Phenomena</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>Formulation of flux equations for fluid, heat &amp; mass transport. Development &amp; resolution of unsteady state and multidimensional models in various co-ordinate systems. Analytical &amp; numerical techniques to solve the resulting equations will be presented.</td>
</tr>
<tr>
<td>ECH 6412</td>
<td>Processes Analysis and</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: CI. Computer-controlled data acquisition and analysis aimed at development</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
<td>Grade Type</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>ECH 6417</td>
<td>Bioseparations</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: Graduate standing in engineering or CI</td>
</tr>
<tr>
<td>ECH 6515</td>
<td>Reacting Systems</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: ECH 4415C or CI</td>
</tr>
<tr>
<td>ECH 6616</td>
<td>Computer-Aided Process Engineering I</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: ECH 4615.</td>
</tr>
<tr>
<td>ECH 6670</td>
<td>Mathematical Methods for Chemical Engineering</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
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</tr>
<tr>
<td>ECH 6749</td>
<td>Biomaterials and Biocompatibility</td>
<td>3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: CI</td>
</tr>
<tr>
<td>ECH 6906</td>
<td>Directed Research</td>
<td>1-19</td>
<td>EN</td>
<td>ECH</td>
<td>PR: GR. ML. S/U</td>
</tr>
<tr>
<td>ECH 6907</td>
<td>Independent Study - Variable Title</td>
<td>1-19</td>
<td>EN</td>
<td>ECH</td>
<td>PR: GR. S/U.</td>
</tr>
<tr>
<td>ECH 6930</td>
<td>Special Problems I</td>
<td>1-3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: CC.</td>
</tr>
<tr>
<td>ECH 6931</td>
<td>Special Problems II</td>
<td>1-3</td>
<td>EN</td>
<td>ECH</td>
<td>PR: CC.</td>
</tr>
<tr>
<td>ECH 6938</td>
<td>Graduate Instruction</td>
<td>1-4</td>
<td>EN</td>
<td>ECH</td>
<td>PR: CC. S/U.</td>
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<tr>
<td>Code</td>
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<td>Hours</td>
<td>Degree(s)</td>
<td>Prerequisites</td>
<td>Notes</td>
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<tr>
<td>ECH 6939</td>
<td>Graduate Research Methods</td>
<td>1-4</td>
<td>EN ECH</td>
<td>PR: CC/S/U.</td>
<td>Special course to be used for training of graduate research assistants.</td>
</tr>
<tr>
<td>ECH 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>EN ECH</td>
<td>PR: CC</td>
<td></td>
</tr>
<tr>
<td>ECH 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>EN ECH</td>
<td>PR: Admission to Candidacy</td>
<td></td>
</tr>
<tr>
<td>ECO 6114</td>
<td>Managerial Economics</td>
<td>3</td>
<td>BA MBA</td>
<td></td>
<td>Theory of economic behavior of households and firms, consumer behavior, demand analysis, production and cost, factor markets.</td>
</tr>
<tr>
<td>ECO 6115</td>
<td>Microeconomics</td>
<td>3</td>
<td>BA MBA</td>
<td>PR: ECO 3101 or ECO 6114, ECO 4401 or CC.</td>
<td>Macroeconomic behavior of consumers, producers, and resource suppliers, price determination in output and factor markets, general market equilibrium.</td>
</tr>
<tr>
<td>ECO 6204</td>
<td>Global Economic Environment of Business</td>
<td>3</td>
<td>BA MBA</td>
<td></td>
<td>Determination of prices, employment, and output in domestic and international settings.</td>
</tr>
<tr>
<td>ECO 6205</td>
<td>Macroeconomic Theory and Policy</td>
<td>3</td>
<td>BA ECN</td>
<td>PR: For Master of Accounting students only.</td>
<td>Determination of income, employment, wages, prices, and interest rates, contemporary policy issues, long-run economic growth.</td>
</tr>
<tr>
<td>ECO 6206</td>
<td>Aggregate Economics</td>
<td>3</td>
<td>BA ECN</td>
<td>PR: ECO 3203 or ECO 6204</td>
<td>Advanced macroeconomic analysis of income, employment, prices, interest rates and economic growth rates.</td>
</tr>
<tr>
<td>ECO 6305</td>
<td>History of Economic Thought</td>
<td>3</td>
<td>BA ECN</td>
<td>PR: ECO 3101 or ECO 6114 or CI</td>
<td>Currents of modern economic thought in the last hundred years.</td>
</tr>
<tr>
<td>ECO 6424</td>
<td>Econometrics I</td>
<td>3</td>
<td>BA ECN</td>
<td>PR: ECO 3203 or ECO 6204, QMB 3200, QMB 6305, or CI</td>
<td>Theory and use of multiple regression to estimate relations in causal models, use of standard software packages.</td>
</tr>
<tr>
<td>ECO 6425</td>
<td>Econometrics II</td>
<td>3</td>
<td>BA ECN</td>
<td>PR: ECO 6424</td>
<td>Advanced econometric techniques; model building, estimation and forecasting; design and execution of research projects.</td>
</tr>
<tr>
<td>ECO 6505</td>
<td>Public Finance</td>
<td>3</td>
<td>BA ECN</td>
<td>PR: ECO 3101 or ECO 6114</td>
<td>Effects of tax and expenditure policies on resource allocation and income distribution.</td>
</tr>
<tr>
<td>ECO 6525</td>
<td>Public Sector Economics</td>
<td>3</td>
<td>BA ECN</td>
<td>No credit for Economics or Business Administration students.</td>
<td>Introduction to the price system and the allocation of resources, emphasis on market failure and the economic role of government.</td>
</tr>
<tr>
<td>ECO 6705</td>
<td>International Economics</td>
<td>3</td>
<td>BA ECN</td>
<td>PR: ECO 6114 and ECO 6204</td>
<td>Analysis of international economic relations and institutions. Analysis of</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>PR/GE Code</td>
<td>Notes</td>
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<tr>
<td>ECO 6706</td>
<td>International Trade: Theory and Policy</td>
<td>3</td>
<td>BA</td>
<td>ECN</td>
<td>Causes of international trade, international trade policy, economic integration, trade problems of developing countries, role of multinational corporations in world trade.</td>
</tr>
<tr>
<td>ECO 6716</td>
<td>International Monetary Economics</td>
<td>3</td>
<td>BA</td>
<td>ECN</td>
<td>International macroeconomic relationships, foreign exchange market, the international monetary system, balance of payments adjustments, macroeconomic policy in the open economy.</td>
</tr>
<tr>
<td>ECO 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>BA</td>
<td>ECN</td>
<td>Independent study. Student must have a contract with an instructor.</td>
</tr>
<tr>
<td>ECO 6917</td>
<td>Directed Research</td>
<td>1-19</td>
<td>BA</td>
<td>ECN</td>
<td>The course content will depend on student demand and instructor's interest.</td>
</tr>
<tr>
<td>ECO 6936</td>
<td>Selected Topics in Economics</td>
<td>1-4</td>
<td>BA</td>
<td>ECN</td>
<td>Topics in advanced microeconomic theory, including general equilibrium, welfare economics, intertemporal choice, uncertainty, information, and game theory.</td>
</tr>
<tr>
<td>ECO 7116</td>
<td>Microeconomics II</td>
<td>3</td>
<td>BA</td>
<td>ECN</td>
<td></td>
</tr>
<tr>
<td>ECO 7980</td>
<td>Dissertation</td>
<td>2-19</td>
<td>BA</td>
<td>ECN</td>
<td>Dissertation Research</td>
</tr>
<tr>
<td>ECP 6205</td>
<td>Labor Economics</td>
<td>3</td>
<td>BA</td>
<td>ECN</td>
<td>Labor demand and supply, unemployment, discrimination in labor markets, labor force statistics.</td>
</tr>
<tr>
<td>ECP 6305</td>
<td>Environmental Economics and Policy</td>
<td>3</td>
<td>BA</td>
<td>ECN</td>
<td>An economic analysis of business's and the government's approach to managing environmental issues. The focus of the course is on the analysis of case studies of specific environmental issues using fundamental efficiency analysis.</td>
</tr>
<tr>
<td>ECP 6405</td>
<td>Industrial Organization</td>
<td>3</td>
<td>BA</td>
<td>ECN</td>
<td>Structure of industry and its effect on economic efficiency.</td>
</tr>
<tr>
<td>ECP 6406</td>
<td>Seminar in Industrial Organization</td>
<td>3</td>
<td>BA</td>
<td>ECN</td>
<td></td>
</tr>
<tr>
<td>ECP 6415</td>
<td>Issues in Regulation and Antitrust</td>
<td>3</td>
<td>BA</td>
<td>ECN</td>
<td>Issues concerning rationale, structure and performance of government regulation and antitrust policy.</td>
</tr>
<tr>
<td>ECP 6456</td>
<td>Law and Economics</td>
<td>3</td>
<td>BA</td>
<td>ECN</td>
<td>Impact of Tort, Criminal, Property, and Contract Law on the allocation of resources.</td>
</tr>
<tr>
<td>ECP 6535</td>
<td>Analysis of Health Care</td>
<td>3</td>
<td>BA</td>
<td>ECN</td>
<td>Evolution of medical care industries and government healthcare policies.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>ECP 6614</td>
<td>Urban Economics</td>
<td>3</td>
<td>BA ECN</td>
<td>PR: ECO 3101 or ECO 6114; not for Master of Economics students</td>
<td>Economics of growth and development of urban areas, interurban location patterns.</td>
</tr>
<tr>
<td>ECP 6624</td>
<td>Regional Economics</td>
<td>3</td>
<td>BA ECN</td>
<td>PR: ECO 3101 or ECO 6114</td>
<td>Geographical allocation of resources within and among regions, location of households and firms, interregional migration of labor and capital, regional growth and development, regional policy.</td>
</tr>
<tr>
<td>EDA 6061</td>
<td>Principles of Educational Administration</td>
<td>3</td>
<td>ED EDB</td>
<td></td>
<td>Educational administration as a profession. Consideration of organization, control, and support of the educational system.</td>
</tr>
<tr>
<td>EDA 6106</td>
<td>Administrative Analysis and Change</td>
<td>3</td>
<td>ED EDB</td>
<td>PR: EDA 6061.</td>
<td>Change and change strategies in formal and informal organizations are foci. Students will develop change strategies and will apply them to selected situations.</td>
</tr>
<tr>
<td>EDA 6192</td>
<td>Educational Leadership</td>
<td>3</td>
<td>ED EDB</td>
<td>PR: EDA 6061.</td>
<td>Administration course that addresses change, influences, and planning systems. Also examines personnel functions for administrators.</td>
</tr>
<tr>
<td>EDA 6195</td>
<td>Policy Development</td>
<td>3</td>
<td>ED EDB</td>
<td>PR: EDA 6061.</td>
<td>Contemporary research on diffusion of innovations, political power in policy decision making. Role of establishing educational policies.</td>
</tr>
<tr>
<td>EDA 6242</td>
<td>School Finance</td>
<td>3</td>
<td>ED EDB</td>
<td>PR: GS, EDA 6061, or CI.</td>
<td>Financial support of education by local, state, federal sources, with emphasis on Florida; introduction to educational budgeting.</td>
</tr>
<tr>
<td>EDA 6262</td>
<td>Planning Educational Facilities</td>
<td>3</td>
<td>ED EDB</td>
<td>PR: GS, EDA 6061, or CI.</td>
<td>Problems in the planning, construction, and use of educational facilities. Visitation and/or evaluation of selected schools.</td>
</tr>
<tr>
<td>EDA 6503</td>
<td>The Principalship</td>
<td>3</td>
<td>ED EDB</td>
<td>PR: EDA 6061.</td>
<td>Organization and administration of the school. Emphasis on the competencies necessary for leadership and management by the principal as the administrator and instructional leader.</td>
</tr>
<tr>
<td>EDA 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>ED EDB</td>
<td>PR: GS or ML, EDA 6061. S/U.</td>
<td></td>
</tr>
<tr>
<td>EDA 6931</td>
<td>Case Studies in School</td>
<td>3</td>
<td>ED EDB</td>
<td>PR: GS, EDA 6061 or CI.</td>
<td>Helps prospective administrators understand administrative problems.</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Program</td>
<td>Description</td>
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<tr>
<td>EDA 6945</td>
<td>Administration Practicum</td>
<td>3-8</td>
<td>ED</td>
<td>EDB</td>
<td>PR: GS, EDA 6061 and completion of a significant amount of the student's program. Field experiences in school systems for identifying and analyzing educational problems and their solutions. Application of concepts developed in the student's program.</td>
</tr>
<tr>
<td>EDA 6971</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19</td>
<td>ED</td>
<td>EDB</td>
<td>PR: GS, EDA 6061 or CI. Administration of school personnel policies and practices relating to professional staff, supporting staff, and students.</td>
</tr>
<tr>
<td>EDA 7222</td>
<td>Administration Of School Personnel Policies And Practices</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>PR: GS, EDA 6061 or CI. Historical perspective in law and education with in-depth reviews of case law showing the evolution of courts as educational policy makers.</td>
</tr>
<tr>
<td>EDA 7247</td>
<td>Advanced School Finance</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>PR: GS, EDA 6242 or CI. Organization, curriculum, and instruction of the elementary school with emphasis on the nature of the students served. Open to all education graduate students.</td>
</tr>
<tr>
<td>EDA 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDB</td>
<td>PR: Admitted to Candidacy.</td>
</tr>
<tr>
<td>EDE 6205</td>
<td>School Curriculum: Elementary</td>
<td>3</td>
<td>ED</td>
<td>EDC</td>
<td>PR: EDG 4620, EDG 6627. 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.</td>
</tr>
<tr>
<td>EDE 6326</td>
<td>Planning and Organizing for Instruction in the Elementary School</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
<td>CR: For first hour: EDE 6946. For second hour EDG 6947. Develops the students' abilities to reflect upon teaching practice and evaluate instructional decisions on K-6 student learning. The first hour is taken with the practicum. The second hour is to be taken in conjunction with final internship.</td>
</tr>
<tr>
<td>EDE 6506</td>
<td>Classroom Management</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
<td>Examines the legal issues affecting classroom/school management,</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>EDE 6906</td>
<td>Independent Study: Elementary/Early Childhood Education</td>
<td>1-6</td>
<td>EDE</td>
<td>S/U</td>
<td>Explores research and knowledge of school safety and professional ethics. Explores research and knowledge of best practices and a variety of teaching and management strategies for a diverse elementary classroom setting.</td>
</tr>
<tr>
<td>EDE 6946</td>
<td>Practicum in the Elementary School</td>
<td>4</td>
<td>EDE</td>
<td>PR: RED 6514, FLE 5345, and 9 additional credits in program courses. CR: EDE 6458-I.</td>
<td>Independent study in which students must have a contract. This intensive practicum experience is designed to complement foundational MAT course work and is completed during the second block of the MAT program. This is an S/U course.</td>
</tr>
<tr>
<td>EDE 7910</td>
<td>Directed Research in Elementary Education</td>
<td>1-19</td>
<td>EDE</td>
<td>PR: Advanced graduate standing.</td>
<td>Independent student-faculty research course.</td>
</tr>
<tr>
<td>EDE 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>EDE</td>
<td>PR: Admitted to Candidacy.</td>
<td></td>
</tr>
<tr>
<td>EDF 6120</td>
<td>Child Development</td>
<td>4</td>
<td>EDF</td>
<td>PR: EDF 6211 or DPR.</td>
<td>Educational, emotional, hereditary, intellectual, social, and physical factors influencing child growth and development.</td>
</tr>
<tr>
<td>EDF 6165</td>
<td>Group Processes for Educational Personnel</td>
<td>1-3</td>
<td>EDF</td>
<td></td>
<td>Application of group process research to the needs of professional educators and training officers.</td>
</tr>
<tr>
<td>EDF 6166</td>
<td>Consulting Skills for Staff Development</td>
<td>1-3</td>
<td>EDF</td>
<td>PR: DPR.</td>
<td>Knowledge and skill training for consulting with organizational clients to solve educational problems and design learning environments or programs.</td>
</tr>
</tbody>
</table>
| EDF 6211    | Psychological Foundations of Education                                      | 3       | EDF        |                                                   | Selected topics in psychology of human development and learning, related to schools and educational.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Division</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6213</td>
<td>Biological Bases for Learning Behavior</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
<td>PR: One course in Educational Psychology.</td>
<td>Human biological development and its influence upon learning and behavior.</td>
</tr>
<tr>
<td>EDF 6215</td>
<td>Learning Principles Applied to Instruction</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: CI.</td>
<td>Learning principles and their application to classroom instruction.</td>
</tr>
<tr>
<td>EDF 6217</td>
<td>Behavior Theory and Classroom Learning</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: EDF 6215 or DPR.</td>
<td>Theory and practical applications of behavior modification; introduction to experimental methods for behavior modification; operant methods in behavior and development; analysis and field work.</td>
</tr>
<tr>
<td>EDF 6281</td>
<td>Workshop and Conference Design</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
<td></td>
<td>Knowledge and skills to design, conduct and/or administer, and evaluate both workshops and conferences.</td>
</tr>
<tr>
<td>EDF 6284</td>
<td>Problems in Instruction Design for Micro Computers</td>
<td>3</td>
<td>ED</td>
<td>EDK</td>
<td>PR: Computer literacy.</td>
<td>This course focuses on the systematic design of instructional courseware, including analysis, media selection, and evaluation. Topics include instructional strategies, screen design, response analysis, feedback and interactivity.</td>
</tr>
<tr>
<td>EDF 6288</td>
<td>Instructional Design I</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
<td>PR: EDF 6215 or DPR.</td>
<td>Instructional design models/theories and their systematic application to instructional goals.</td>
</tr>
<tr>
<td>EDF 6354</td>
<td>Human Development and Personality Theories</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td></td>
<td>A study of psycho-social and cognitive development throughout a person's life span with an analysis of the major personality theories.</td>
</tr>
<tr>
<td>EDF 6432</td>
<td>Foundations Of Measurement</td>
<td>3</td>
<td>ED</td>
<td>EDQ</td>
<td></td>
<td>Basic measurement concepts, role of measurement in education, construction of teacher-made tests and other classroom assessments, interpretation of standardized tests, and fundamental descriptive statistics for use in test interpretation.</td>
</tr>
<tr>
<td>EDF 6446</td>
<td>Development and Validation of Tests in</td>
<td>3</td>
<td>ED</td>
<td>EDQ</td>
<td>PR: EDF 6432, EDF 6407, DPR.</td>
<td>Design, construction, and validation of state-wide tests. Special emphasis on domain sampling, item response theory, item scaling, item fit, and analysis.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Program</td>
<td>Description</td>
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</tr>
<tr>
<td>EDF 6481</td>
<td>Foundations of Educational Research</td>
<td>3</td>
<td>ED</td>
<td>EDQ</td>
<td>Analysis of major types of educational research designs, including experimental, correlational, ex post facto and case studies.</td>
<td></td>
</tr>
<tr>
<td>EDF 6492</td>
<td>Applied Educational Program Evaluation</td>
<td>3</td>
<td>ED</td>
<td>EDQ</td>
<td>Design, development, implementation, interpretation, and communication of both formative and summative educational program evaluation studies.</td>
<td></td>
</tr>
<tr>
<td>EDF 6517</td>
<td>Historical Foundations of American Education</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>EDF 6531</td>
<td>History of Childhood, Disability, and Deviance</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
<td>Historical development of the idea and experience of modern childhood. Social construction of age categories and age related institutions such as schools. Issues of diversity including concepts of deviance, ability and disability in historical perspective. Social policies and inequality by social class, race/ethnicity/culture and gender.</td>
<td></td>
</tr>
<tr>
<td>EDF 6544</td>
<td>Philosophical Foundations of American Education</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
<td>Major philosophies of education relevant to an understanding of contemporary educational issues.</td>
<td></td>
</tr>
<tr>
<td>EDF 6606</td>
<td>Socio-Economic Foundations of American Education</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>Socio-economic factors as they relate to the work of professional educators and the role of public education in American society.</td>
<td></td>
</tr>
<tr>
<td>EDF 6705</td>
<td>Gender and the Educational Process</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
<td>Course is designed to enable public school personnel, teachers, counselors, administrators, and other professionals to identify those aspects of public education that perpetuate sex role stereotyping. Emphasis will be placed on how the law and formal and informal affirmative action activities can be employed to correct sexism in schools.</td>
<td></td>
</tr>
<tr>
<td>EDF 6736</td>
<td>Education, Communication, and Change</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
<td>Developments in communication as a process of social change as it affects students, teachers, and traditional school arrangements.</td>
<td></td>
</tr>
<tr>
<td>EDF 6765</td>
<td>Schools and the Future</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>Estimates of future demands upon schools; critique of current</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Grade</td>
<td>Description</td>
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<tr>
<td>EDF 6810</td>
<td>Comparative Education</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
<td>Comparison of contemporary educational systems of selected countries with that of the United States.</td>
<td></td>
</tr>
<tr>
<td>EDF 6812</td>
<td>Seminar in Comparative Education</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>Policies and practices in education in selected countries.</td>
<td></td>
</tr>
<tr>
<td>EDF 6883</td>
<td>Issues in Multicultural Education</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: DPR. Lecture/discussion course, open to both majors and non-majors; address both fundamental concepts and timely issues in multicultural education and working with culturally diverse students.</td>
<td></td>
</tr>
<tr>
<td>EDF 6885</td>
<td>Internship in Community Agency Counseling</td>
<td>6 or 3</td>
<td>ED</td>
<td>EDG</td>
<td>PR: All required MHS courses. Field experience involving one semester of full-time participation or two semesters of part-time participation in the counseling and related activities of a public or private agency providing mental health services to the community.</td>
<td></td>
</tr>
<tr>
<td>EDF 6906</td>
<td>Independent Study: Educational Foundations</td>
<td>1-6</td>
<td>ED</td>
<td>EDF</td>
<td>S/U. Independent study in which students must have a contract with an instructor.</td>
<td></td>
</tr>
<tr>
<td>EDF 6935</td>
<td>Wellness Programming Seminar</td>
<td>2</td>
<td>ED</td>
<td>EDF</td>
<td>PR: CI. This course familiarizes students with the array of extant programs to facilitate wellness and prevent problems that often affect college students. Through review and critique of such programs, participants will be able to design and administer wellness programs in their professional roles.</td>
<td></td>
</tr>
<tr>
<td>EDF 6938</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: CC. 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.</td>
<td></td>
</tr>
<tr>
<td>EDF 6944</td>
<td>Field Experience</td>
<td>1-4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: CI. Demonstrate skills in the practice of the student's specialty. Objectives will be defined by the needs of the individual student.</td>
<td></td>
</tr>
<tr>
<td>EDF 7143</td>
<td>Measurement of Cognitive Functioning in Childhood and</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: A course in measurement. Investigation of theories and measurement of cognitive functioning in childhood and adolescence.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
<td>Department</td>
<td>Program</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>EDF 7145</td>
<td>Cognitive Issues in Instruction</td>
<td>4</td>
<td>EDF</td>
<td>EDF</td>
<td>PR: Admission to doctoral program and EDF 6215.</td>
<td>Selected cognitive models of intelligence, memory, problem solving, thinking, and motivation applied to instructional strategies.</td>
</tr>
<tr>
<td>EDF 7167</td>
<td>Experiential Learning: Theory and Methods</td>
<td>3</td>
<td>EDF</td>
<td>EDF</td>
<td></td>
<td>Theory and methods of experiential learning in both formal and organizational contexts.</td>
</tr>
<tr>
<td>EDF 7227</td>
<td>Topics in Behavior Analysis and Automated Instruction</td>
<td>1-12</td>
<td>EDF</td>
<td>EDF</td>
<td>PR: EDF 6215 or EDF 6217 or Advanced Graduate Standing, CI</td>
<td>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.</td>
</tr>
<tr>
<td>EDF 7239</td>
<td>Supervised Experience in College Teaching</td>
<td>2</td>
<td>EDF</td>
<td>EDF</td>
<td></td>
<td>A seminar to increase knowledge and competencies in college instruction. Students must have advanced graduate standing, be currently teaching a college level course, willing to be observed, and able to discuss ongoing classroom practices and problems. Open to all doctoral level Education majors, other doctoral students if space available. S/U optional.</td>
</tr>
<tr>
<td>EDF 7408</td>
<td>Statistical Analysis For Educational Research II</td>
<td>4</td>
<td>ED</td>
<td>EDQ</td>
<td>PR: EDF 6407 or equiv. or DPR.</td>
<td>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.</td>
</tr>
<tr>
<td>EDF 7410</td>
<td>Design Of Systematic Studies In Education</td>
<td>4</td>
<td>ED</td>
<td>EDQ</td>
<td>PR: EDF 6407, EDF 7408 or equiv. or DPR.</td>
<td>Theory and application of major design models to systematic inquiry, from experimental to naturalistic models. Nature and role of sampling in systematic studies.</td>
</tr>
<tr>
<td>EDF 7437</td>
<td>Advanced Educational Measurement I</td>
<td>3</td>
<td>ED</td>
<td>EDQ</td>
<td>PR: EDF 6432 or equiv.; EDF 6407 or equiv.</td>
<td>Logical, empirical, and statistical models of measurement processes. Examination of issues relative to scaling with a focus on reliability of measurement. Critique of available instruments for measurement in psychology and education. Examination of issues relative to scaling with a focus on reliability of measurement. Critique of available instruments for measurement in psychology and education.</td>
</tr>
<tr>
<td>EDF 7438</td>
<td>Advanced</td>
<td>4</td>
<td>ED</td>
<td>EDQ</td>
<td>PR: EDF 7437</td>
<td>Scaling techniques in educational</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>EDF 7477</td>
<td>Qualitative Research in Education Part I</td>
<td>4</td>
<td>ED EDQ PR: Advanced GS or DPR.</td>
<td>First of two sequenced seminars examining the theoretical and pragmatic aspects of conducting qualitative research in educational settings.</td>
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</tr>
<tr>
<td>EDF 7478</td>
<td>Qualitative Research in Education Part II</td>
<td>4</td>
<td>ED EDQ PR: Advanced GS and EDF 7477.</td>
<td>Second of two sequenced seminars examining the theoretical and pragmatic aspects of conducting qualitative research.</td>
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</tr>
<tr>
<td>EDF 7484</td>
<td>Statistical Analysis For Educational Research III</td>
<td>4</td>
<td>ED EDQ PR: EDF 7408 or DPR.</td>
<td>Theory and application of selected multivariate statistical procedures, including Canonical Correlation, Discriminate Analysis, Multivariate Analysis of Variance, Factor Analysis, and Path Analysis.</td>
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<tr>
<td>EDF 7485</td>
<td>Theory and Practice of Education Evaluation</td>
<td>3</td>
<td>ED EDQ PR: EDF 7493. DPR.</td>
<td>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.</td>
<td></td>
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</tr>
<tr>
<td>EDF 7488</td>
<td>Problems in Educational Data Analysis</td>
<td>2</td>
<td>ED EDQ PR: EDF 7408 or DPR.</td>
<td>Strategies and techniques for data processing and quantitative analysis using statistical software, including data screening, transformation, diagnostic indices, and interpretation.</td>
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<tr>
<td>EDF 7530</td>
<td>History of Higher Education in the United States</td>
<td>3</td>
<td>ED EDQ PR: EDF 6517, its equivalent, or permission of the instructor.</td>
<td>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.</td>
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<tr>
<td>EDF 7586</td>
<td>Classics in Educational Research</td>
<td>4</td>
<td>ED EDQ PR: GS; EDF 6517, EDF 6544, EDF 6606, or CI.</td>
<td>Examination of the context, methods, and significance of selected research studies in education.</td>
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<tr>
<td>Course Code</td>
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<td>Description</td>
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<td>EDF 7649</td>
<td>Analysis of Educational Issues</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
<td>Socio-cultural, historical, and axiological examination of selected issues in public education.</td>
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<tr>
<td>EDF 7655</td>
<td>Organization Development in Educational Institutions</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>Application of social and behavioral science theory to the organizational and developmental problems of schools and school systems.</td>
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<tr>
<td>EDF 7682</td>
<td>Education in Metropolitan Areas</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>Modern public education and its relationship to national development.</td>
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<tr>
<td>EDF 7910</td>
<td>Directed Research in Measurement and Evaluation</td>
<td>1-19</td>
<td>ED</td>
<td>EDQ</td>
<td>PR: CI.</td>
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<tr>
<td>EDF 7934</td>
<td>Seminar in Social Foundations of Education</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>Independent student-faculty research course.</td>
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<tr>
<td>EDF 7940</td>
<td>Practicum In Educational Planning, Evaluation, And Development</td>
<td>1-8</td>
<td>ED</td>
<td>EDQ</td>
<td>Supervised practicum in which the student assumes major responsibility for significant planning, evaluation, research, or development activity.</td>
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</tr>
<tr>
<td>EDF 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDQ</td>
<td>PR: Admission to Candidacy.</td>
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<tr>
<td>EDF 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDQ</td>
<td>PR: Admission to Candidacy.</td>
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<tr>
<td>EDF 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDQ</td>
<td>PR: Admission to Candidacy.</td>
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<tr>
<td>EDG 6285</td>
<td>School Curriculum Improvement</td>
<td>3</td>
<td>ED</td>
<td>EDC</td>
<td>Open only to teachers in service. Complete faculty participation required.</td>
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<tr>
<td>EDG 6329</td>
<td>Creative Drama in a Developmental Context</td>
<td>3</td>
<td>VP</td>
<td>EDD</td>
<td>Theories and methods of applying three major approaches of creative drama to the use of improvised drama from kindergarten through secondary school. The course will involve students in applying the drama process as a teaching method which can be applied by classroom teachers of elementary, middle and high school.</td>
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<tr>
<td>EDG 6344</td>
<td>Project T.E.A.C.H. (Teacher Effectiveness)</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td>PR: CC.</td>
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<tr>
<td>EDG 6344</td>
<td>Project T.E.A.C.H. (Teacher Effectiveness)</td>
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<td>EDR</td>
<td>PR: CC.</td>
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<tr>
<td>EDG 6415</td>
<td>Project P.R.I.D.E. (Professional Refinements In Developing Effectiveness)</td>
<td>3</td>
<td>ED</td>
<td>EDDE</td>
<td>Topics in academic questioning techniques, nonverbal communication, motivating changes in behavior, managing critical incidents in the classroom, and analyzing typical classroom practices for positive or negative impact.</td>
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<tr>
<td>EDG 6417</td>
<td>Teaching Through Learning Channels</td>
<td>3</td>
<td>ED</td>
<td>EDDE</td>
<td>Focus on the area of teaching effectiveness in the cognitive domain and skill training on the identification and use of student learning channel strengths; analysis of curriculum based on learning channels to identify the skills necessary to complete learning tasks; the development of alternative strategies to meet the needs of all students.</td>
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</tr>
<tr>
<td>EDG 6627</td>
<td>Foundations Of Curriculum And Instruction</td>
<td>3</td>
<td>ED</td>
<td>EDC</td>
<td>PR: EDG 4620. Open to all graduate students. Introductory course in curriculum and instruction at the graduate level, basic to all specialized courses in the field. Emphasis on foundations, design, basic concepts, theory, and trends of curriculum from early childhood through secondary levels.</td>
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<tr>
<td>EDG 6693</td>
<td>Problems in Curriculum and Instruction: Elementary</td>
<td>1-3</td>
<td>ED</td>
<td>EDC</td>
<td>PR: EDG 4620, EDG 6627. 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.</td>
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<tr>
<td>EDG 6694</td>
<td>Problems In Curriculum And Instruction: Middle School</td>
<td>1-3</td>
<td>ED</td>
<td>EDC</td>
<td>PR: EDG 4620, EDG 6627. For teachers, supervisors, and administrators. Curricular and instructional problems of the middle school. Common problems or problems of special interest to the participants. Normally, for certification requirements only.</td>
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</tr>
<tr>
<td>EDG 6695</td>
<td>Problems In Curriculum Instruction: Secondary</td>
<td>1-3</td>
<td>ED</td>
<td>EDC</td>
<td>PR: EDG 4620, EDG 6627. 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.</td>
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<tr>
<td>EDG 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>ED</td>
<td>EDV</td>
<td>S/U.</td>
<td>Independent study in which students must have a contract with an instructor.</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Division</td>
<td>Grade</td>
<td>PR:</td>
<td>Description</td>
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<tr>
<td>EDG 6931</td>
<td>Selected Topics in Education</td>
<td>1-4</td>
<td>ED</td>
<td>EDC</td>
<td>PR: DPR.</td>
<td>Each topic is a course under the supervision of a faculty member. The title and content will vary according to the topic.</td>
</tr>
<tr>
<td>EDG 6935</td>
<td>Seminar in Curriculum Research</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
<td>PR: EDG 6481.</td>
<td>Critical evaluation of current research and curriculum literature, design and analysis of individual research topics leading to satisfaction of research requirements.</td>
</tr>
<tr>
<td>EDG 6947</td>
<td>Internship</td>
<td>1-9</td>
<td>ED</td>
<td>EDC</td>
<td>PR: DPR, S/U</td>
<td>Open to graduate degree candidates only. Supervised teaching at the secondary or junior college level as appropriate.</td>
</tr>
<tr>
<td>EDG 6971</td>
<td>Thesis: Masters/Education Specialist</td>
<td>2-19</td>
<td>ED</td>
<td>EDC</td>
<td>S/U. Master's students only. Interdisciplinary Studies only.</td>
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</tr>
<tr>
<td>EDG 7692</td>
<td>Issues in Curriculum and Instruction</td>
<td>3</td>
<td>ED</td>
<td>EDC</td>
<td>PR: EDG 6627.</td>
<td>Identification and analysis of major problems and issues in curriculum and instruction. Critical examination of efforts to deal with these issues.</td>
</tr>
<tr>
<td>EDG 7910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>ED</td>
<td>EDC</td>
<td>S/U only.</td>
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<tr>
<td>EDG 7931</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>ED</td>
<td>EDC</td>
<td>PR: DPR.</td>
<td>Selected topics in advanced Education.</td>
</tr>
<tr>
<td>EDG 7937</td>
<td>Graduate Seminar</td>
<td>1-4</td>
<td>ED</td>
<td>EDC</td>
<td>PR: CC.</td>
<td>Seminar in advanced Education.</td>
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<tr>
<td>EDH 6051</td>
<td>Higher Education in America</td>
<td>3</td>
<td>ED</td>
<td>EDH</td>
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<td>For current and prospective faculty, administrators, policy analysts, and staff seeking to learn about American higher education. The topics addressed include the history, recent developments, and projections for the future of various aspects of higher education, including its missions, purposes, students, faculty and staff, administration, finance, organization, governance, and role in American society.</td>
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<tr>
<td>EDH 6061</td>
<td>Junior College in American Higher Education</td>
<td>4</td>
<td>ED</td>
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<td>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.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Notes</td>
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<tr>
<td>EDH 6406</td>
<td>Ethics and Higher Education</td>
<td>3</td>
<td>ED</td>
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<td></td>
<td>The purpose of this course is to assist students in developing a detailed ethical framework that will guide their actions and decision-making as they serve in leadership and teaching positions in higher education. Areas of emphasis include (a) learning selected philosophies of ethics; (b) exploring student, faculty, and classroom ethical issues; (c) discussing administrator/board ethical issues; (d) examining the college or university as an ethical organization.</td>
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<tr>
<td>EDH 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>ED</td>
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<td>Independent study in which students must have a contract with an instructor. Rpt. S/U.</td>
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<tr>
<td>EDH 6938</td>
<td>Seminar in College Teaching</td>
<td>3</td>
<td>ED</td>
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<td></td>
<td>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.</td>
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<tr>
<td>EDH 6947</td>
<td>Intership in Higher Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDH</td>
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<td>This course provides higher education program graduate students with an extensive, semester-long, field experience in a two- or four-year college, under the dual guidance of a campus-based supervisor and a USF higher education program faculty member. The internship experience must relate to the student’s goals in the doctoral program. Students should be at or near the end of their graduate program.</td>
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<tr>
<td>EDH 7225</td>
<td>Curriculum Development In Higher Education</td>
<td>3</td>
<td>ED</td>
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<td>PR: GS or CI. Emphasis on curriculum perspectives, procedures, and practices in higher education; principles of curriculum and instruction in higher education; theory and practices in goal setting, curriculum planning, instructional improvement, and curriculum design.</td>
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<tr>
<td>EDH 7405</td>
<td>Policy and Legal Dimensions in Higher Education</td>
<td>3</td>
<td>ED</td>
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<td>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</td>
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<td>Course Code</td>
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<td>EDH 7505</td>
<td>Higher Education Finance</td>
<td>3</td>
<td>ED</td>
<td>EDH</td>
<td>PR: GS or CI.</td>
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<tr>
<td>EDH 7633</td>
<td>Governing Colleges and Universities</td>
<td>3</td>
<td>ED</td>
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<tr>
<td>EDH 7635</td>
<td>Organization And Administration Of Higher Education</td>
<td>3</td>
<td>ED</td>
<td>EDH</td>
<td>PR: GS or CI.</td>
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<tr>
<td>EDH 7636</td>
<td>Organization al Theory and Practices in Higher Education</td>
<td>3</td>
<td>ED</td>
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<tr>
<td>EDH 7910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>ED</td>
<td>EDH</td>
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<tr>
<td>EDH 7930</td>
<td>Higher Education Seminar</td>
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<td>ED</td>
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<tr>
<td>EDH 7935</td>
<td>Higher Education Capstone Seminar</td>
<td>3</td>
<td>ED</td>
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</tbody>
</table>

Higher education, including governance, academic freedom, student rights, discrimination, tort liability, contracts and collective bargaining.

Emphasis on financial policies, planning, and budgeting; allocation; financial analysis and management, patterns of expenditure, sources of income. Relationships between educational objectives and resource allocations.

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.

Examines the concepts about higher education organizations and administration, the behaviors of those organizations and administrators, and the relationships between concept and practice.

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.

This course provides higher education program graduate students with an opportunity for directed research, under the supervision of a higher education program faculty member.

Topics of general and special concern in higher education, restricted to advanced graduate students.

The course is designed to encourage students' integration and synthesis of theories, concepts and themes in previous coursework; to critique research in the field; and to provide some in-depth study of selected areas in higher education. Advanced
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Days</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>EDH 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDH</td>
<td>PR: Admitted to Candidacy.</td>
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<tr>
<td>EDM 6235</td>
<td>School Curriculum: Middle</td>
<td>3</td>
<td>ED</td>
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<td>PR: EDG 4620, EDG 6627.</td>
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<td>EDM 6622</td>
<td>Client Centered Middle Schools</td>
<td>3</td>
<td>ED</td>
<td>EDM</td>
<td>Majors Only.</td>
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<tr>
<td>EDM 6623</td>
<td>Responsive Middle School Programs</td>
<td>3</td>
<td>ED</td>
<td>EDM</td>
<td>PR: EDM 6622.</td>
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<tr>
<td>EDM 6624</td>
<td>Effective Instruction for Middle Schools</td>
<td>3</td>
<td>ED</td>
<td>EDM</td>
<td>PR: EDM 6622 and EDM 6623.</td>
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<tr>
<td>EDM 6935</td>
<td>Middle School Issues Seminar</td>
<td>1-3</td>
<td>ED</td>
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<tr>
<td>EDS 6050</td>
<td>Principles and Practices of Educational Supervision</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>PR: GS.</td>
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<tr>
<td>EDS 6131</td>
<td>Clinical Supervision</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>PR: GS, EDS 6050.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Course Description</td>
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<tr>
<td>EDS 6239</td>
<td>Problems In Supervision</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>Analysis of instructional problems in schools. Emphasis on supervisory tasks, case studies, and the application of problem solving techniques and strategies.</td>
<td></td>
</tr>
<tr>
<td>EDS 7130</td>
<td>Teacher Evaluation: Process and Instruments</td>
<td>3</td>
<td>ED</td>
<td>EDB</td>
<td>Examines procedures for establishing content validity, reliability, norms, and predictive validity of teacher evaluation systems. Examines the psychometric qualities of selected instruments.</td>
<td></td>
</tr>
<tr>
<td>EEC 6261</td>
<td>Advanced Programs In Early Childhood Education</td>
<td>3</td>
<td>ED</td>
<td>EDU</td>
<td>Innovative curriculum designs in Early Childhood Education, with emphasis given to related research.</td>
<td></td>
</tr>
<tr>
<td>EEC 6405</td>
<td>Home - School - Community Interaction In Early Childhood Education</td>
<td>3</td>
<td>ED</td>
<td>EDU</td>
<td>Roles of parents, teacher aides, and community agencies involved in the education of the young child.</td>
<td></td>
</tr>
<tr>
<td>EEC 6406</td>
<td>Social Growth In Childhood</td>
<td>3</td>
<td>ED</td>
<td>EDU</td>
<td>Principal factors that influence the social development of young children with particular emphasis upon those cultural influences that affect both child development and the educational programs for the young child.</td>
<td></td>
</tr>
<tr>
<td>EEC 6705</td>
<td>Intellectual Growth In Childhood</td>
<td>3</td>
<td>ED</td>
<td>EDU</td>
<td>Intellectual development of the normal child with particular emphasis on the studies of Jean Piaget and how they relate to curriculum for children, ages 0-8. Child study through observation required.</td>
<td></td>
</tr>
<tr>
<td>EEC 6926</td>
<td>Workshop In Early Childhood Education</td>
<td>3</td>
<td>ED</td>
<td>EDU</td>
<td>Individual problems and innovations related to methods and materials of instruction in early childhood.</td>
<td></td>
</tr>
<tr>
<td>EEC 6971</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19</td>
<td>ED</td>
<td>EDU</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEC 7910</td>
<td>Directed Research in Early Childhood Education</td>
<td>1-19</td>
<td>ED</td>
<td>EDU</td>
<td>Independent student-faculty research course.</td>
<td></td>
</tr>
<tr>
<td>EEC 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDU</td>
<td></td>
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</tr>
<tr>
<td>EED 6211</td>
<td>Educational Strategies for</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>Advanced methods and materials for planning, implementing, and</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Method</td>
<td>Grade</td>
<td>Description</td>
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<tr>
<td>EED 6215</td>
<td>Advanced Theories and Practices in Behavior Disorders</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td></td>
<td>Introductory course in special education. Evaluating educational interventions with students with behavior disorders. For certification. In-depth study of specific behavioral disorders of children and youth, with an emphasis on educational implications and interventions.</td>
</tr>
<tr>
<td>EED 6246</td>
<td>Educating the Autistic Student</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: GS</td>
<td>Introductory course in educating exceptional students; Psycho-educational assessment. Developing and managing appropriate and effective educational programs and techniques for students who have autism.</td>
</tr>
<tr>
<td>EED 6943</td>
<td>Supervised Practicum in Behavior Disorders</td>
<td>1-12</td>
<td>ED</td>
<td>EDS</td>
<td>PR: CI</td>
<td>Supervised graduate practicum experiences with children who have behavior disorders. For students seeking certification only.</td>
</tr>
<tr>
<td>EEL 5250</td>
<td>Power System Analysis</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EGN 3375.</td>
<td>Analysis and design technique for AC power systems.</td>
</tr>
<tr>
<td>EEL 5344C</td>
<td>Digital CMOS/VLSI Design</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 4705 or GS.</td>
<td>Design, layout, simulation, and test of custom digital CMOS/VLSI chips, using a CMOS cell library and state-of-the-art CAD tools. Digital CMOS static and dynamic gates, flip flops, CMOS array structures commonly used in digital systems. Top down design example of a bit slice processor.</td>
</tr>
<tr>
<td>EEL 5356</td>
<td>Integrated Circuit Technology</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 4351 or GS.</td>
<td>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.</td>
</tr>
<tr>
<td>EEL 5382</td>
<td>Physical Basis Of Microelectronics</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 4471 or GS.</td>
<td>Quantum mechanics with emphasis on electronic properties in atoms, molecules, and crystals; quantum statistics; energy band theory; crystal structures; defect chemistry; semiconductor properties.</td>
</tr>
<tr>
<td>EEL 5437</td>
<td>Microwave Engineering</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 4471, EEL 4102, or GS.</td>
<td>Introduction to passive and active components, devices, and circuits, including transmission lines and</td>
</tr>
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</table>
wave guides, employed in microwave integrated circuits and systems.

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>Credits</th>
<th>Language</th>
<th>Requirement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 5462</td>
<td>Antenna Theory</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 4471 or GS. Antenna theory beginning with fundamental parameter definitions and continuing with mathematical concepts, elemental antennas and arrays.</td>
</tr>
<tr>
<td>EEL 5572C</td>
<td>Local and Metropolitan Area Networks</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 4512C or GS. Basics of data communication exchange of digital information over communication media; Basics of LANs/MANs and its components: media topologies, access methods, etc.; LAN/MAN architectures and protocols-IEEE 802.xLAN Standards; High speed LANs such as FDDI, IEEE 802.6 MAN, etc., Internetworking; LAN/MAN Design and selections.</td>
</tr>
<tr>
<td>EEL 5631</td>
<td>Digital Control Systems</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 4657 or GS. Sample data and digital control processes</td>
</tr>
<tr>
<td>EEL 5754C</td>
<td>Microprocessor or Based Digital Signal Processing</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 4705 or CI. Arithmetic systems, processing structures, efficient algorithms. DSP hardware, TI, NEC and other DSP microprocessors; multiprocessor hardware and software. System development. Application to telecommunications and voice processing.</td>
</tr>
<tr>
<td>EEL 5771</td>
<td>Introduction to Computer Graphics I</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: EEL 4851C. An introduction to the evolution of computer graphics including point-plotting, line drawing, two-dimensional transformations and graphics software packages.</td>
</tr>
<tr>
<td>EEL 5935</td>
<td>Special Electrical Engineering Topics I</td>
<td>1-3</td>
<td>EN</td>
<td>EGE</td>
<td></td>
</tr>
<tr>
<td>EEL 5936</td>
<td>Special Electrical Engineering Topics II</td>
<td>1-3</td>
<td>EN</td>
<td>EGE</td>
<td></td>
</tr>
<tr>
<td>EEL 5937</td>
<td>Special Electrical Engineering Topics III</td>
<td>1-3</td>
<td>EN</td>
<td>EGE</td>
<td></td>
</tr>
<tr>
<td>EEL 6151</td>
<td>Advanced Circuit Theory II</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 6150. Network fundamentals; network characterization, frequency analysis; superposition integrals; signal-flow techniques, stability problems; real and imaginary relations.</td>
</tr>
<tr>
<td>EEL 6318</td>
<td>Characterization of</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>Electrical, optical, chemical, and physical methods used to</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Additional Information</td>
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<tr>
<td>EEL 6353</td>
<td>Semiconductor Device Theory I</td>
<td>3</td>
<td>EN</td>
<td>Theory of operation and application of circuits and devices.</td>
<td></td>
</tr>
<tr>
<td>EEL 6354</td>
<td>Semiconductor Device Theory II</td>
<td>3</td>
<td>EN</td>
<td>Theory of operation and application of circuits and devices. PR: EEL 6353.</td>
<td></td>
</tr>
<tr>
<td>EEL 6355</td>
<td>Compound Semiconductor or Technology</td>
<td>3</td>
<td>EN</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>EEL 6391</td>
<td>Noise in Electrical Devices</td>
<td>3</td>
<td>EN</td>
<td>Characteristics, measurements and generation mechanisms of noise sources observed in electronic materials and devices. Materials and devices to be considered include thin and thick films, superconductors, semiconductors and semiconductor devices. PR: EEL 6387.</td>
<td></td>
</tr>
<tr>
<td>EEL 6434</td>
<td>Active Microwave Structures and Devices</td>
<td>3</td>
<td>EN</td>
<td>Theory and design of solid state low noise and high power amplifiers, solid state oscillators and high power tubes for waveguide, coax and integrated circuit applications. PR: EEL 5437</td>
<td></td>
</tr>
<tr>
<td>EEL 6447C</td>
<td>Optoelectronics</td>
<td>3</td>
<td>EN</td>
<td>Basic principles and operations of lasers and analyses of power output and frequency pulling in laser oscillators.</td>
<td></td>
</tr>
<tr>
<td>EEL 6463</td>
<td>Advanced Antenna Theory</td>
<td>3</td>
<td>EN</td>
<td>Electromagnetic radiating systems studied by analytical and numerical methods. PR: EEL 5462.</td>
<td></td>
</tr>
<tr>
<td>EEL 6486C</td>
<td>Electromagnetic Field Theory</td>
<td>3</td>
<td>EN</td>
<td>Time harmonic electromagnetic fields emphasizing problems in transmission lines and electric power transmission.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisite</td>
<td>Description</td>
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<tr>
<td>EEL 6487C</td>
<td>Advanced Electromagnetic Field Theory</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>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.</td>
</tr>
<tr>
<td>EEL 6509</td>
<td>Satellite Communication</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>Satellite characteristics, link calculations, earth station, frequency management, large and small mobile earth terminals. Digital communication for satellites: modulation coding and multiple-access techniques. Examples including the INTELSAT series.</td>
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<tr>
<td>EEL 6519</td>
<td>Ultra High Speed Communications</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>Ultra high-speed channels; radio, microwave, and lightwave. High-order constellations. Multiplexing, demultiplexing, and framing. Adaptive equalization for intersymbol interference and multi-path fading. Switching space and time for UHS streams.</td>
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<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Schedule</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>EEL</td>
<td>Concepts in random processes, correlation functions,</td>
<td>3</td>
<td>EN</td>
<td>PR: EEL 6545.</td>
<td>A study of fiber-optic technology as applied to communications systems.</td>
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<td>power spectrum, random inputs to linear systems.</td>
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<td>EGE</td>
<td></td>
<td>Spectral analysis. Applications to engineering systems.</td>
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<tr>
<td></td>
<td>Spectral analysis.</td>
<td></td>
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<td>Applications to engineering systems. Spectral analysis.</td>
</tr>
<tr>
<td>EEL</td>
<td>Principles of video transmission and television.</td>
<td>3</td>
<td>EN</td>
<td>PR: EEL 6534.</td>
<td>Principles of video transmission and television. Digital video standards. Multimedia principles (including video, image, and sound) and their applications. Enhanced definition and high definition television principles, standards, and technology.</td>
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<td></td>
<td>Multimedia principles (including video, image, and</td>
<td></td>
<td>EGE</td>
<td></td>
<td>Principles of video transmission and television. Digital video standards. Multimedia principles (including video, image, and sound) and their applications. Enhanced definition and high definition television principles, standards, and technology.</td>
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<td>sound) and their applications.</td>
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<td></td>
<td>Principles of video transmission and television. Digital video standards. Multimedia principles (including video, image, and sound) and their applications. Enhanced definition and high definition television principles, standards, and technology.</td>
</tr>
<tr>
<td>EEL</td>
<td>Characteristics of wireless mobile channels</td>
<td>3</td>
<td>EN</td>
<td>PR: EEL 6502.</td>
<td>Characteristics of wireless mobile channels indoor and outdoor; multipath and shadow fading, frequency reuse; micro and pico cells; base-station and portable units. Cell coverage, blocking, and co-channel interference. TDMA, FDMA, CDMA and hybrid approaches to multiple access. Protocols, hand-over. Voice, data, and multi-media over wireless indoor channels.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EGE</td>
<td></td>
<td>Characteristics of wireless mobile channels indoor and outdoor; multipath and shadow fading, frequency reuse; micro and pico cells; base-station and portable units. Cell coverage, blocking, and co-channel interference. TDMA, FDMA, CDMA and hybrid approaches to multiple access. Protocols, hand-over. Voice, data, and multi-media over wireless indoor channels.</td>
</tr>
<tr>
<td>EEL</td>
<td>A study of modern control techniques including optimum and adaptive control.</td>
<td>3</td>
<td>EN</td>
<td></td>
<td>A study of modern control techniques including optimum and adaptive control. A study of modern control techniques including optimum and adaptive control.</td>
</tr>
<tr>
<td>EEL</td>
<td>Analysis of multi-variable linear systems continuous and discrete time, state-space methodology and transfer functions description. Analysis and design of feedback control systems. Effects of plant and control systems.</td>
<td>3</td>
<td>EN</td>
<td></td>
<td>Analysis of multi-variable linear systems continuous and discrete time, state-space methodology and transfer functions description. Analysis and design of feedback control systems. Effects of plant and control systems.</td>
</tr>
<tr>
<td>Course Code</td>
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<td>Credit</td>
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<tr>
<td>EEL 6615</td>
<td>Systems and Control Theory II</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 6614</td>
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<tr>
<td>EEL 6620</td>
<td>Nonlinear Control Systems</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
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<tr>
<td>EEL 6640</td>
<td>Random Processes in Control Systems</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
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</tr>
<tr>
<td>EEL 6658</td>
<td>RF &amp; Microwave Measurements</td>
<td>2</td>
<td>EN</td>
<td>EGE</td>
<td>Wireless Circuits Systems Lab.</td>
</tr>
<tr>
<td>EEL 6706</td>
<td>Testing And Fault Tolerance In Digital Systems</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: COP 2400, CDA 4201 or CI, majors only.</td>
</tr>
<tr>
<td>EEL 6707</td>
<td>Advanced Digital Systems</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td></td>
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<tr>
<td>EEL 6753</td>
<td>Digital Signal Processing III</td>
<td>3</td>
<td>EN</td>
<td>EGE</td>
<td>PR: EEL 6502 or EEL 6752.</td>
</tr>
<tr>
<td>EEL 6764</td>
<td>Principles Of Computer Architecture</td>
<td>3</td>
<td>EN</td>
<td>ESB</td>
<td>PR: CDA 4100 or CI.</td>
</tr>
</tbody>
</table>
of the number systems and the algorithms used for digital arithmetic computation with emphasis on their implementation, speed and reliability considerations.

EEL 6765 Microsystem Technology and MEMS Technology 3 EN EGE
This course provides an overview of the MEMS Technology, focusing on devices and systems that can be developed using standard processing approaches.

EEL 6766 Advanced Computer Architecture 3 EN ESB PR: EEL 6764 or CI. Control unit and microprogramming, reduced instruction set computers RISC, object oriented systems, multiprocessor systems, supercomputers. The macrostructure of computers is considered in this course, ranging from the orthodox von Neumann design to multiprocessors, stack processors, pipeline systems, and associative computers.

EEL 6820 Image Processing 3 EN EGE Two-dimensional signals including random, convolution and system functions. Fourier transform and FFT in two dimensions. Digitization of two-dimensional signals, quantization and aliasing errors. Filtering, restoration, and low bit-rate coding of images. Application to video-conferencing.

EEL 6846 Coding Theory 3 EN EGE PR: EGN 5423. Error-correcting codes, algebraic block codes, linear codes and feedback shift registers; BCH codes; convolutional codes; burst error correcting codes; arithmetic codes; decoding methods.

EEL 6908 Independent Study 1-19 EN EGE S/U. Independent study in which students must have a contract with an instructor.

EEL 6932 Advanced Engineering Seminar 1-3 EN EGE

EEL 6935 Selected Electrical Topics 1-3 EN EGE

EEL 6936 Special Electrical Problems 1-3 EN EGE

EEL 6971 Thesis: Master's 2-19 EN EGE S/U. Advanced topics in communications such as synchronization, spread-spectrum communications, fading channels, large constellation.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
<th>Co-requisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>EEX 5705</td>
<td>Seminar in Preschool Handicapped</td>
<td>2</td>
<td>ED</td>
<td>EDS</td>
<td>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.</td>
</tr>
<tr>
<td>EEX 6025</td>
<td>Trends and Issues in Special Education</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>Fall Semester. DPR. Survey of all exceptionalities including current trends and issues related to the field of special education.</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Creating Positive Learning Environments for Students with Disabilities</td>
<td>6</td>
<td>ED</td>
<td>EDS</td>
<td>PR: Admission to the MAT. This course presents an overview of assessment, behavior management, and instructional planning for students with disabilities. It also incorporates content about the historical and legal foundations of special education and theories and research that focus on defining, describing and intervening with students who have learning disabilities, behavior disorders, mild-moderate mental retardation, mild to moderate developmental disabilities, and physical disabilities.</td>
</tr>
<tr>
<td>EEX 6225</td>
<td>Developing Individualized Educational Programs for Students with Disabilities</td>
<td>6</td>
<td>ED</td>
<td>EDS</td>
<td>PR: EEX 6051 and admission to the MAT. 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,</td>
</tr>
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</table>
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
<th>Prerequisites</th>
<th>Course Description</th>
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</thead>
<tbody>
<tr>
<td>EEX 6228</td>
<td>Observationa Functional Methods and Assessment</td>
<td>3</td>
<td>EDS</td>
<td>PR: GS, introductory course in educating exceptional students.</td>
<td>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.</td>
</tr>
<tr>
<td>EEX 6245</td>
<td>Transitional Programming for the Adolescent and Young Adult Exceptional Student</td>
<td>3</td>
<td>ED EDS</td>
<td>PR: GS, introductory course in educating exceptional students.</td>
<td>Procedures for implementing educational programs with exceptional adolescents. Includes educational programming, alternative programs, community resource coordination, career/occupational education, and advocacy.</td>
</tr>
<tr>
<td>EEX 6248</td>
<td>Instructional Approaches for Exceptional Populations</td>
<td>3</td>
<td>ED EDS</td>
<td>PR: Introductory course in special education, GS.</td>
<td>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.</td>
</tr>
<tr>
<td>EEX 6511</td>
<td>Administration of Exceptional Student Programs</td>
<td>3</td>
<td>ED EDS</td>
<td>PR: GS.</td>
<td>Procedures that local, state, and national administrators may use to implement services for exceptional students.</td>
</tr>
<tr>
<td>EEX 6526</td>
<td>Grantsmanship</td>
<td>3</td>
<td>ED EDS</td>
<td>PR: Advanced GS.</td>
<td>Fundamental skills for obtaining external funding of training, service, and research projects in education and the social sciences. Includes locating and communicating with sponsors, developing proposals, and preparing budgets. Emphasis is on grantsmanship in an academic environment.</td>
</tr>
<tr>
<td>EEX 6612</td>
<td>Management and Motivation of Exceptional and At-Risk Students</td>
<td>3</td>
<td>ED EDS</td>
<td>PR: Introductory course in special education, GS.</td>
<td>Available to non-majors. Focuses on approaches to classroom management and motivational strategies when working with exceptional students. Content includes applied behavior analysis techniques, psychoeducational approaches, and social skills training.</td>
</tr>
<tr>
<td>EEX 6706</td>
<td>Education of</td>
<td>3</td>
<td>EDS</td>
<td>PR: GS.</td>
<td>Education of children ages birth</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisite</td>
<td>Description</td>
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<tr>
<td>EEX 6732</td>
<td>Consultation and Collaboration in Special Education</td>
<td>3 ED EDS</td>
<td>PR: Introductory course in special education, GS.</td>
<td>Theories of consultation and collaboration. Overview of service delivery models in special education.</td>
<td></td>
</tr>
<tr>
<td>EEX 6906</td>
<td>Independent Study: Special Education</td>
<td>1-6 ED EDS</td>
<td>S/U.</td>
<td>Independent study in which students must have a contract with an instructor.</td>
<td></td>
</tr>
<tr>
<td>EEX 6936</td>
<td>Seminar in Integrating Exceptional Students in Regular Educational Environments</td>
<td>3 ED EDS</td>
<td></td>
<td>Designed for non-special education graduate students. Surveys the characteristics of exceptional student populations, identification procedures, and systems for providing appropriate services for</td>
<td></td>
</tr>
<tr>
<td>EEX 6939</td>
<td>Advanced Seminar: Paradigms, Practices, and Policies in Special Education</td>
<td>3 ED EDS</td>
<td>PR: DPR. Students should be in the last semester of coursework for master’s degree.</td>
<td>An advanced graduate seminar stressing cross-categorical relationships. Topics include research that deals with paradigms for providing service, service models, and legal mandates.</td>
<td></td>
</tr>
<tr>
<td>EEX 6943</td>
<td>Practicum in Exceptional Student Education</td>
<td>1-4 ED EDS</td>
<td>PR: Admission to Master’s Degree Program in Special Education and DPR. S/U.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>EEX 6971</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19 ED EDS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEX 7203</td>
<td>Educational Implications of Psychosocial Aspects of Exceptional Children</td>
<td>1-5 ED EDS</td>
<td>DPR.</td>
<td>This course will be concerned with the identification of the psychosocial needs and characteristics of exceptional children; opportunity of analysis of the educational implications of these needs and characteristics.</td>
<td></td>
</tr>
<tr>
<td>EEX 7301</td>
<td>Selected Topics in Special Education</td>
<td>1-8 ED EDS</td>
<td>PR: EEX 7341 or DPR.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Program</td>
<td>Prerequisites</td>
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<tr>
<td>EEX 7341</td>
<td>Research Studies and Their Implications in the Education of Exceptional Children</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: EDF 6431, EDF 6481, or equiv., DPR.</td>
</tr>
<tr>
<td>EEX 7741</td>
<td>Philosophy and Theory in the Preparation of Special Education Specialists</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: Admission in the Program for Ed.S. or Ph.D. in Education. DPR.</td>
</tr>
<tr>
<td>EEX 7743</td>
<td>Philosophies of Inquiry</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>PR: EDF 6481 or Equivalent, or permission of instructor</td>
</tr>
<tr>
<td>EEX 7744</td>
<td>Curriculum and Instructional Issues in Urban Special Education</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td></td>
</tr>
<tr>
<td>EEX 7745</td>
<td>Historical, Ethical, and Disciplinary Foundations of Special Education</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td></td>
</tr>
</tbody>
</table>
Education shaped the research, policies, and practices in the field of Special Education during the twentieth century.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Co-requisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 7815</td>
<td>Research Seminar</td>
<td>2-3 ED</td>
<td>EDS</td>
<td>PR: Admission to Doctoral Program</td>
<td>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.</td>
</tr>
<tr>
<td>EEX 7841</td>
<td>Fieldwork With Exceptional Students</td>
<td>1-5 ED</td>
<td>EDS</td>
<td>DPR.</td>
<td>Practical field experience in curriculum development, classroom teaching, supervision, and/or administrative areas in special education.</td>
</tr>
<tr>
<td>EEX 7910</td>
<td>Directed Research</td>
<td>1-19 ED</td>
<td>EDS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEX 7911</td>
<td>Specialized Study In: Mental Retardation, Behavior Disorders, Specific Learning Disabilities, and Gifted Education</td>
<td>1-8 ED</td>
<td>EDS</td>
<td>DPR.</td>
<td>The specialized study enables advanced exploration of knowledge in an area of interest to the student in special education.</td>
</tr>
<tr>
<td>EEX 7939</td>
<td>Teacher Education in Special Education: Conceptual</td>
<td>2 ED</td>
<td>EDS</td>
<td>PR: Admission to the PH.D. program in Special Education.</td>
<td>This four-semester seminar focuses on teacher education in special education.</td>
</tr>
<tr>
<td>EEX 7980</td>
<td>Dissertation</td>
<td>2-30 ED</td>
<td>EDS</td>
<td>PR: Admission to Candidacy.</td>
<td></td>
</tr>
<tr>
<td>EGI 5051</td>
<td>Nature and Needs of the Gifted</td>
<td>3 ED</td>
<td>EDS</td>
<td></td>
<td>This survey course examines the characteristics and educational needs of children and youth who are gifted, including those from special populations. Emphasis is on giftedness as defined historically, nationally and locally. The course also explores changing views of intelligence and talent development related to policy and practice in gifted education as well as the processes of identification and programming.</td>
</tr>
<tr>
<td>EGI 5325</td>
<td>Theory and</td>
<td>3 ED</td>
<td>EDS</td>
<td></td>
<td>Exploration of the concept of</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Co-Prerequisites</td>
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<tr>
<td>EGI 6232</td>
<td>Development 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.</td>
<td>3</td>
<td>ED EDS</td>
<td>PR: EGI 5051.</td>
<td></td>
</tr>
<tr>
<td>EGI 6416</td>
<td>Curriculum adjustments, methods and techniques, as well as classroom organizations necessary for teaching students who are gifted will be the focus of this course. Emphasis will also be on curriculum in gifted programs within the context of school reform and restructuring.</td>
<td>3</td>
<td>ED EDS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EGI 6936</td>
<td>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.</td>
<td>3</td>
<td>ED EDS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EGI 6943</td>
<td>Planned experiences working with students who are gifted, program development and administration, or an individualized inquiry of a specific issue related to gifted education.</td>
<td>1-12</td>
<td>ED EDS</td>
<td>PR: CC. S/U.</td>
<td></td>
</tr>
<tr>
<td>EGM 6656</td>
<td>Classical and contemporary elasticity theory with applications to engineering problems.</td>
<td>3</td>
<td>EN EGX</td>
<td>PR: CES 6116</td>
<td></td>
</tr>
<tr>
<td>EGN 5421</td>
<td>Vector methods in electromagnetism and fluid mechanics. Vector operators, line and flux integrals, potential and transport theorems, applications.</td>
<td>3</td>
<td>EN EGB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EGN 5423</td>
<td>Finite fields and coding applications. Probabilities of error detection and correction. Introduction to neural networks. Advanced matrix algorithms: LU and QR</td>
<td>3</td>
<td>EN EGB</td>
<td></td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>EGN 5424</td>
<td>Engineering Applications of Complex Analysis</td>
<td>3</td>
<td>EN EGB</td>
<td></td>
<td>Analytic functions, conformal mapping, residue theory, Laurent series, transforms. Applications to various problems in engineering and physics.</td>
</tr>
<tr>
<td>EGN 5425</td>
<td>Engineering Applications of Advanced Matrix Computation</td>
<td>3</td>
<td>EN EGB</td>
<td></td>
<td>Survey of theory and software for matrix computations: factorization methods, least squares and pseudoinverses, eigenvector algorithms. Special matrices and representations for control system and finite element applications.</td>
</tr>
<tr>
<td>EGN 6426</td>
<td>Engineering Analysis VI</td>
<td>3</td>
<td>EN EGB</td>
<td>PR: EGN 4420.</td>
<td>Application of computational and mathematical techniques and principles to advanced engineering problems.</td>
</tr>
<tr>
<td>EIN 5245</td>
<td>Work Physiology and Biomechanics</td>
<td>3</td>
<td>EN EGS</td>
<td>PR: CC, majors only.</td>
<td>Human physiological limitations encountered in design, analysis and evaluation of man-machine systems.</td>
</tr>
<tr>
<td>EIN 5322</td>
<td>Principles of Engineering Management</td>
<td>3</td>
<td>EN EGS</td>
<td></td>
<td>Introduction to the fundamentals of planning, organizing and leadership as needed by engineers, scientists, and other professionals considering managerial positions.</td>
</tr>
<tr>
<td>EIN 5350</td>
<td>Technology and Finance</td>
<td>3</td>
<td>EN EGS</td>
<td></td>
<td>A course for technical managers that focuses on how financial and economic principles are utilized to make technical investments and manage technical enterprises.</td>
</tr>
<tr>
<td>EIN 5357</td>
<td>Engineering Value Analysis</td>
<td>3</td>
<td>EN EGS</td>
<td>PR: EIN 5219 or equiv., majors only</td>
<td>Statistical models for analyzing engineering alternatives from an economic viewpoint. The use of advanced engineering economy concepts in solving industrial problems.</td>
</tr>
<tr>
<td>EIN 6106</td>
<td>Technology and Law</td>
<td>3</td>
<td>EN EGS</td>
<td>PR: CI.</td>
<td>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.</td>
</tr>
<tr>
<td>EIN 6107</td>
<td>Professional Behavior and the Engineer</td>
<td>3</td>
<td>EN EGS</td>
<td>PR: CI.</td>
<td>A study of professional ethics and morals as faced by technical managers in the development, production, and marketing of industrial products and services. Emphasis on case studies, class</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
<td>Department</td>
<td>Approval</td>
<td>Description</td>
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<tr>
<td>EIN</td>
<td>6108 EM-Human Relations</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>Discussions, and guest lecturers regarding ethical issues in managerial decision making.</td>
</tr>
<tr>
<td>EIN</td>
<td>6119 Decision Support Systems in Engineering Management</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>Human relations, understanding oneself, understanding other people, influencing and motivation performance, improving moral and discipline, and self appraisal and analysis for the technical manager.</td>
</tr>
<tr>
<td>EIN</td>
<td>6121 Technology and Markets</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>Conceptual foundations of decision support systems with focus on the needs of engineering managers and effective decision making in technological and scientific organizations.</td>
</tr>
<tr>
<td>EIN</td>
<td>6204 Engineering Information Processing</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>Marketing strategy and its relationship to the development of technology from the viewpoint of interaction between the technical enterprise and its industrial and government customers.</td>
</tr>
<tr>
<td>EIN</td>
<td>6215 Engineering System Safety</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>A study of human information processing theories and measurement techniques as applied to engineering problems emphasizing perceptual, cognitive, and learning aspects of interpersonal and human-computer communication.</td>
</tr>
<tr>
<td>EIN</td>
<td>6216 Occupational Safety Engineering</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>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.</td>
</tr>
<tr>
<td>EIN</td>
<td>6258 Human/Computer Interaction</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>Introduction to the principles of designing, maintaining, and managing a workplace free from hazards. Covers mechanical hazards, fall and lifting hazards, climatic and environmental hazards, fire and explosive hazards, and pressure hazards. Considers design issues, warnings, and personal protective equipment. Term project required.</td>
</tr>
<tr>
<td>EIN</td>
<td>6265 Industrial Mental</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>Application of human factors in the design and operation of man/machine systems. Analysis of the use of microprocessors and computer-controlled devices in man/machine systems.</td>
</tr>
</tbody>
</table>

The table above provides a list of courses related to human relations, decision systems, technology, market analysis, and safety engineering, along with their respective credits, departments, and approval statuses.
Health as applied to organizational settings. Review of research studies related to industrial mental health; stress management; strategies for improving mental health and employee performance.

<table>
<thead>
<tr>
<th>EIN</th>
<th>Course Title</th>
<th>Credits</th>
<th>Language</th>
<th>Distribution</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6319</td>
<td>Work Design And Productivity Engineering</td>
<td>3</td>
<td>EN</td>
<td>EGS Majors only.</td>
<td>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.</td>
</tr>
<tr>
<td>6323</td>
<td>Engineering Management Policy And Strategy</td>
<td>3</td>
<td>EN</td>
<td>EGS Majors only.</td>
<td>Strategic planning and policy formulation in technical and scientific organizations. General managers in the middle. Translation of strategic plans into action plans and implementation of the strategic change process. This is a capstone course in the EM program to be taken during the last semester of the student's program.</td>
</tr>
<tr>
<td>6324</td>
<td>Technical Entrepreneurship</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>A comprehensive study of developing and starting an engineering venture. Student teams work out a business plan for a company to develop, manufacture, and distribute a technical product or service.</td>
</tr>
<tr>
<td>6336</td>
<td>Production Control Systems</td>
<td>3</td>
<td>EN</td>
<td>EGS PR: CC, majors only.</td>
<td>Forecasting models, development of production plans, loading and scheduling models and basic inventory models. Use of MRP. Design and evaluation of production control systems.</td>
</tr>
<tr>
<td>6386</td>
<td>Management of Technological Change</td>
<td>3</td>
<td>EN</td>
<td>EGS Majors only.</td>
<td>A study of problems encountered by managers in the planning, organizing, directing, and controlling of resources in technology-based organizations.</td>
</tr>
<tr>
<td>6605</td>
<td>Robotics And Assembly Automation</td>
<td>3</td>
<td>EN</td>
<td>EGS Majors only.</td>
<td>The use of robots in manufacturing assembly; coordinated use of robots, machine tools, feeders, holding devices, and material handling systems.</td>
</tr>
<tr>
<td>6934</td>
<td>Special Industrial Topics I</td>
<td>1-3</td>
<td>EN</td>
<td>EGS PR: CC, majors only.</td>
<td></td>
</tr>
<tr>
<td>6935</td>
<td>Special Industrial Topics II</td>
<td>1-3</td>
<td>EN</td>
<td>EGS PR: CC, majors only.</td>
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<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
<td>Days</td>
<td>Prerequisites</td>
<td>Description</td>
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</tr>
<tr>
<td>EIN</td>
<td>6936 Special Industrial Topics III</td>
<td>1-3</td>
<td>EN</td>
<td>EGS PR: CC, majors only.</td>
<td>Organization, coordination, and budgeting of adult, cooperative, and special programs.</td>
</tr>
<tr>
<td>EIN</td>
<td>6971 Thesis: Master's</td>
<td>2-19</td>
<td>EN</td>
<td>EGS Majors only. S/U.</td>
<td>Various conceptual and/or theoretical models are reviewed; current trends and issues related to education of children with specific learning disabilities.</td>
</tr>
<tr>
<td>EIV</td>
<td>5315 Program Management: Diversified Cooperative Training</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>Advanced educational procedures and materials development for the student with specific learning disabilities. For certification.</td>
</tr>
<tr>
<td>ELD</td>
<td>6015 Advanced Theories and Practices in Specific Learning Disabilities</td>
<td>3</td>
<td>ED</td>
<td>EDS PR: Introductory course in exceptional child education, GS.</td>
<td>Supervised experiences with children who have learning disabilities.</td>
</tr>
<tr>
<td>ELD</td>
<td>6235 Educational Strategies for Student With Specific Learning Disabilities</td>
<td>3</td>
<td>ED</td>
<td>EDS PR: ELD 6015, EEX 6222.</td>
<td>Provide understanding of corrosion fundamentals. Introduce design for corrosion detection, protection, and control. Acquire research project experience.</td>
</tr>
<tr>
<td>ELD</td>
<td>6943 Practicum With Learning Disabilities</td>
<td>1-12</td>
<td>ED</td>
<td>EDS PR: CC. S/U.</td>
<td>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.</td>
</tr>
<tr>
<td>ELR</td>
<td>7910 Directed Research</td>
<td>1-19</td>
<td>EN</td>
<td>EGE PR: GR. Ph.D. level. S/U.</td>
<td>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</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>EME 6613</td>
<td>Development of Technology-Based Instruction</td>
<td>3</td>
<td>ED</td>
<td>EDK</td>
<td>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.</td>
</tr>
<tr>
<td>EME 6906</td>
<td>Independent Study in Instructional Technology</td>
<td>1-6</td>
<td>ED</td>
<td>EDI</td>
<td>Independent study under the direction of an IT faculty member. Student must have contract with instructor.</td>
</tr>
<tr>
<td>EME 6930</td>
<td>Programming Languages for Education</td>
<td>3</td>
<td>ED</td>
<td>EDK</td>
<td>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.</td>
</tr>
<tr>
<td>EME 6936</td>
<td>Applications of Computers as Educational Tools</td>
<td>3</td>
<td>ED</td>
<td>EDK</td>
<td>Selected topics in the application of computing and related technology to the teaching and learning processes. Separate sections will focus on topics such as telecommunications, image and sound processing, interactive media, artificial intelligence, data acquisition, and information systems.</td>
</tr>
<tr>
<td>EME 7458</td>
<td>Research in Distance Learning</td>
<td>3</td>
<td>ED</td>
<td>EDI</td>
<td>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.</td>
</tr>
<tr>
<td>EME 7631</td>
<td>Research in Technology Project Management</td>
<td>3</td>
<td>ED</td>
<td>EDI</td>
<td>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.</td>
</tr>
<tr>
<td>EME 7910</td>
<td>Directed Research in Instructional Technology</td>
<td>1-19</td>
<td>ED</td>
<td>EDI</td>
<td>This course permits a doctoral student to conduct advanced research and to pursue specific areas of</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Grade</td>
<td>Department</td>
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<tr>
<td>EME 7938</td>
<td>Computer-Augmented Instructional Paradigms in Education</td>
<td>3</td>
<td>ED</td>
<td>EDK</td>
<td>PR: Admission to program or DPR.</td>
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<tr>
<td>EME 7939</td>
<td>Research in Technology-Based Education</td>
<td>3</td>
<td>ED</td>
<td>EDK</td>
<td>PR: Admission to program or DPR.</td>
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<tr>
<td>EME 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDK</td>
<td>PR: Admission to Candidacy</td>
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<tr>
<td>EML 5930</td>
<td>Special Topics III</td>
<td>1-4</td>
<td>EN</td>
<td>EGR</td>
<td>PR: CC.</td>
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<tr>
<td>EML 6105</td>
<td>Advanced Thermodynamics and Statistical Mechanics</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: ECH 3023C or EML 4106C or CI</td>
</tr>
<tr>
<td>EML 6145</td>
<td>Numerical Methods in Heat Transfer</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: CI, majors only</td>
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<tr>
<td>EML 6154</td>
<td>Advanced Conduction Analysis</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: EML 4124, EML 3041, majors only</td>
</tr>
<tr>
<td>EML 6157</td>
<td>Radiation</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: EML 4124, majors only</td>
</tr>
<tr>
<td>EML 6232</td>
<td>Composite Laminated Materials</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: EML 3500, majors only</td>
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<tr>
<td>EML 6273</td>
<td>Advanced Dynamics of Machinery</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: EML 3624 or CI, majors only</td>
</tr>
<tr>
<td>EML 6375</td>
<td>Dir Dig Ctrl I</td>
<td>EN</td>
<td>EGR</td>
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</tr>
<tr>
<td>EML 6606</td>
<td>HVAC Systems Design</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: EML 4601 or CI, majors only</td>
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<tr>
<td>EML 6653</td>
<td>Applied Elasticity</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: EML 3500</td>
</tr>
<tr>
<td>EML 6713</td>
<td>Advanced Fluid Mechanics</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: CI, majors only</td>
</tr>
<tr>
<td>EML 6801</td>
<td>Robotic Systems</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: CI, majors only</td>
</tr>
<tr>
<td>EML 6808</td>
<td>Mechanics and Control of Robotic Manipulators</td>
<td>3</td>
<td>EN</td>
<td>EGR</td>
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<tr>
<td>EML 6907</td>
<td>Independent Study</td>
<td>1-6</td>
<td>EN</td>
<td>EGR</td>
<td>PR: GR, majors only S/U.</td>
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<tr>
<td>EML 6930</td>
<td>Special</td>
<td>1-3</td>
<td>EN</td>
<td>EGR</td>
<td>PR: CC, majors</td>
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<tr>
<td>EML 6931</td>
<td>Special Problems II</td>
<td>1-3 EN</td>
<td>EGR</td>
<td>PR: CC, majors only</td>
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<tr>
<td>EML 6971</td>
<td>Thesis: Master's</td>
<td>2-6 EN</td>
<td>EGR</td>
<td>PR: CC, majors only</td>
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<tr>
<td>EML 7915</td>
<td>Directed Research</td>
<td>1-6 EN</td>
<td>EGR</td>
<td>PR: CC and GR. Ph.D. level, majors only. S/U.</td>
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<tr>
<td>EML 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-12 EN</td>
<td>EGR</td>
<td>PR: Admission to Candidacy</td>
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<tr>
<td>EMR 6052</td>
<td>Advanced Theories and Practices in Mental Retardation</td>
<td>3 ED</td>
<td>EDS</td>
<td>PR: GS; introductory course in exceptional student education.</td>
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</tr>
<tr>
<td>EMR 6303</td>
<td>Educational Strategies for the Mentally Retarded</td>
<td>3 ED</td>
<td>EDS</td>
<td>In-depth study of the specific curriculum and methodological problems in teaching students with mental retardation. For certification.</td>
<td></td>
</tr>
<tr>
<td>EMR 6943</td>
<td>Graduate Supervised Practicum in Mental Retardation</td>
<td>1-12 ED</td>
<td>EDS</td>
<td>PR: CC. For students seeking certification only. S/U.</td>
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<tr>
<td>ENC 6319</td>
<td>Scholarly Writing for Publication in English Studies</td>
<td>3 AS</td>
<td>ENG</td>
<td>Methods of writing and publishing scholarly articles, monographs, and textbooks in rhetoric and composition, literary scholarship, and criticism. Required for Literature majors.</td>
<td></td>
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<tr>
<td>ENC 6336</td>
<td>Studies in the History of Rhetoric</td>
<td>3 AS</td>
<td>ENG</td>
<td>Examines the evolving relationship between rhetoric and composition from antiquity to the present.</td>
<td></td>
</tr>
<tr>
<td>ENC 6421</td>
<td>Studies in Rhetoric and Technology</td>
<td>3 AS</td>
<td>ENG</td>
<td>Examines the intersection of Rhetoric and technology, with emphasis on contemporary critical issues in composition studies.</td>
<td></td>
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<tr>
<td>ENC 6700</td>
<td>Studies in Composition Theory</td>
<td>3 AS</td>
<td>ENG</td>
<td>Major theories and models of composing. Selected theorists include Rohman, Emig, Sommers, Flowers, and Hayes.</td>
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<tr>
<td>ENC 6720</td>
<td>Studies in Composition Research</td>
<td>3 AS</td>
<td>ENG</td>
<td>Examines and evaluates a broad range of important research studies conducted in composition and a variety of research techniques such as descriptive statistics, qualitative research design, and measurement and evaluation. Instruction in how to conduct composition research.</td>
<td></td>
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<tr>
<td>ENC 6740</td>
<td>Theory and Development of Writing</td>
<td>3 AS</td>
<td>ENG</td>
<td>Operating theories of and administrative procedures for implementing writing programs on</td>
<td></td>
</tr>
<tr>
<td>ENG</td>
<td>6009</td>
<td>Bibliography for English Studies</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENG</td>
<td>6018</td>
<td>Studies in Criticism and Theory I</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENG</td>
<td>6019</td>
<td>Studies in Criticism and Theory II</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENG</td>
<td>6067</td>
<td>History of the English Language</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENG</td>
<td>6916</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENG</td>
<td>6939</td>
<td>Graduate Seminar in English</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<td>ENG</td>
<td>7939</td>
<td>Doctoral Seminar</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<tr>
<td>ENL</td>
<td>6206</td>
<td>Studies in Old English</td>
<td>3</td>
<td>AS</td>
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<td>ENL</td>
<td>6216</td>
<td>Studies in Middle English</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
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<td>Department</td>
<td>Description</td>
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<tr>
<td>ENL 6226</td>
<td>Studies in Sixteenth-Century British Literature</td>
<td>3</td>
<td>AS ENG</td>
<td>Selected focused studies in sixteenth-century British literature; Shakespeare, Sidney, Spenser, Marlowe, and others.</td>
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<tr>
<td>ENL 6228</td>
<td>Studies in Seventeenth-Century British Literature</td>
<td>3</td>
<td>AS ENG</td>
<td>Selected focused studies in British literature, 1600-1660; Bacon, Donne, Jonson, Herbert, Milton, and others.</td>
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<tr>
<td>ENL 6236</td>
<td>Studies in Restoration and Eighteenth-Century British Literature</td>
<td>3</td>
<td>AS ENG</td>
<td>Selected focused studies in Restoration and Eighteenth-Century British literature: Dryden, Defoe, Pope, Swift, Fielding, Sheridan, Johnson, Boswell, and others.</td>
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<tr>
<td>ENL 6246</td>
<td>Studies of the English Romantic Period</td>
<td>3</td>
<td>AS ENG</td>
<td>A study of pre-Romantic and Romantic prose, fiction, nonfiction, and poetry.</td>
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<tr>
<td>ENL 6256</td>
<td>Studies in Victorian Literature</td>
<td>3</td>
<td>AS ENG</td>
<td>A study of Victorian poetry, fiction, non-fictional prose, and drama.</td>
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<tr>
<td>ENL 6276</td>
<td>Studies in Modern British Literature</td>
<td>3</td>
<td>AS ENG</td>
<td>A study of Irish and English drama, the modern novel, poetry, criticism, and the short story.</td>
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<tr>
<td>ENV 5103</td>
<td>Air Pollution Control</td>
<td>3</td>
<td>EN EGX</td>
<td>PR: EGN 3353. 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.</td>
<td></td>
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<tr>
<td>ENV 5334</td>
<td>Hazardous Waste Management and Remedial Action</td>
<td>3</td>
<td>EN EGX</td>
<td>PR: ENV 5345 and one of the following: ENV 6347, ENV 6519, ENV 6558; or CI, majors only. Introduction to hazardous waste management and remediation: RCRA regulatory concepts, definitions, aspects of hazardous waste management from within the plant to final disposal. History of hazardous waste cleanup leading to CERCLA and its amendments, site investigations; site control; those aspects of treatment that are unique to remedial action. (PR: undergraduate preparation in environmental engineering or an environmental science program)</td>
<td></td>
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<tr>
<td>ENV 5345</td>
<td>Solid Waste Control</td>
<td>3</td>
<td>EN EGX</td>
<td>PR: CI. Introduction to solid waste management, including its definition as an umbrella for hazardous waste:</td>
<td></td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Type</td>
<td>Grade</td>
<td>Prerequisites</td>
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<tr>
<td>ENV 5504C</td>
<td>Environmental Engineering Processes</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: ENV 4001, ENV 4004L, ENV 4417</td>
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<tr>
<td>ENV 6347</td>
<td>Materials Recovery Engineering</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: ENV 5345 or CI, majors only</td>
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<tr>
<td>ENV 6438</td>
<td>Natural &amp; Small Scale Treatment Systems</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: CI, majors only</td>
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<td>ENV 6519</td>
<td>Advanced Physical/Chemical Processes</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: ENV 6666 or CI, majors only</td>
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<tr>
<td>ENV 6539</td>
<td>Sludge Treatment &amp; Disposal</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: ENV 6667 or CI, majors only</td>
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<tr>
<td>ENV 6558</td>
<td>Industrial and</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: ENV 6667</td>
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<td>ENV 6614</td>
<td>Quantitative Environmental Analysis</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>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 a small risk analysis model.</td>
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<tr>
<td>ENV 6666</td>
<td>Aquatic Chemistry</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>An introduction to the form, structure, and chemical activities of the important processes essential to treatment of domestic and industrial wastewater.</td>
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<tr>
<td>ENV 6667</td>
<td>Environmental Biotechnology</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>Study of biochemical relations and processes in treatment of pollutants with emphasis on control of effluents for the protection of water quality. CI.</td>
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<tr>
<td>ENY 5505</td>
<td>Aquatic Entomology</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>Taxonomy, development, and ecology of aquatic insects with emphasis on local forms. Lec.-lab.</td>
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<tr>
<td>EPH 5051</td>
<td>Advanced Theories in Motor and Physical Disabilities</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>Biological and functional aspects of motor and physical health disabilities, including dysfunctions in central nervous system covering motor, sensory, language and psychological disorders.</td>
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<tr>
<td>EPH 5321</td>
<td>Educational Strategies for Physically and Multihandicapped Students</td>
<td>3</td>
<td>ED</td>
<td>EDS</td>
<td>Educational management of students with cerebral palsy, motor disabilities and multihandicapped conditions including rehabilitation and other community services.</td>
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<tr>
<td>EPH 6944</td>
<td>Supervised Practicum in Motor Disabilities</td>
<td>3-12</td>
<td>ED</td>
<td>EDS</td>
<td>Supervised graduate practicum encompassing teaching and supervising experiences in public/private educational or vocational programs for students with physical disabilities in the classroom, hygiene, and educational implications.</td>
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<tr>
<td>ESE 5342</td>
<td>Teaching the Adolescent Learner</td>
<td>3</td>
<td>ED</td>
<td>EDI</td>
<td>Emphasis is placed on adolescent developmental and learning needs linking them to practices in the classroom appropriate to the diverse</td>
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<td>ESE 5344</td>
<td>Classroom Management for a Diverse School and Society</td>
<td>3</td>
<td>ED</td>
<td>EDI</td>
<td>PR: EDG 4620, EDG 6627</td>
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<td>ESE 6215</td>
<td>School Curriculum: Secondary</td>
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<td>EDC</td>
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<td>ESE 6906</td>
<td>Independent Study: Secondary Education</td>
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<td>S/U.</td>
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<td>ESI 5219</td>
<td>Statistical Methods For Engineering Managers</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
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<td>ESI 5306</td>
<td>Operations Research For Engineering Management</td>
<td>3</td>
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<td>EGS</td>
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<td>ESI 5470</td>
<td>Manufacturing Systems Analysis</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>PR: CC, majors only.</td>
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<td>Type</td>
<td>Department</td>
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<td>ESI 6213</td>
<td>Theory of Industrial Statistics</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>PR: ESI 5219 or equiv.</td>
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<td>ESI 6225</td>
<td>Quality Assurance Plans</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>PR: ESI 5219 or equiv., majors only</td>
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<tr>
<td>ESI 6247</td>
<td>Statistical Design Models</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>PR: ESI 5219 or equiv., majors only</td>
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<tr>
<td>ESI 6291</td>
<td>Special Topics in Statistics</td>
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<td>EN</td>
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<td>PR: CC, majors only.</td>
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<td>ESI 6555C</td>
<td>Topics in Automation</td>
<td>3</td>
<td>EN</td>
<td>EGS</td>
<td>PR: CC, majors only.</td>
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<td>ESI 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>EN</td>
<td>EGS</td>
<td>Majors only. S/U.</td>
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<td>Directed Research</td>
<td>1-19</td>
<td>EN</td>
<td>EGS</td>
<td>PR: GR. ML., majors only. S/U</td>
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<td>ESI 7911</td>
<td>Directed Research</td>
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<td>EN</td>
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<td>PR: GR. Ph.D. level, majors only. S/U</td>
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<td>2-19</td>
<td>EN</td>
<td>EGS</td>
<td>PR: Admission to Candidacy.</td>
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<td>EVR 6922</td>
<td>ESP Capstone Seminar</td>
<td>3</td>
<td>AS</td>
<td>ESP</td>
<td>PR: Departmental approval required</td>
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<tr>
<td>EVR 6936</td>
<td>Seminar in Environmental Science</td>
<td>3</td>
<td>AS</td>
<td>ESP</td>
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<tr>
<td>EVR 6937</td>
<td>Seminar in Environmental Policy</td>
<td>3</td>
<td>AS</td>
<td>ESP</td>
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economic factors that influence the formulation, application, evaluation and changes of environmental regulations.

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Type</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVT</td>
<td>Preparation and Development for Teaching</td>
<td>4</td>
<td>ED</td>
<td>EDV</td>
<td>The development of selected instructional materials, use of new educational media, performance evaluation instruments, and counseling techniques.</td>
</tr>
<tr>
<td>EVT</td>
<td>School Community Development</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>Identifying, assessing, and analyzing, individual, institutional and community needs for the purpose of cooperative program planning, community involvement, and public support.</td>
</tr>
<tr>
<td>EVT</td>
<td>Administration Of Local Programs: Vocational</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>Organization, personnel selection and assignment, and establishment of policies and procedures for local vocational programs within federal, state and local requirements.</td>
</tr>
<tr>
<td>EVT</td>
<td>Supervision Of Local Programs: Vocational Education</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>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.</td>
</tr>
<tr>
<td>EVT</td>
<td>Individualized Instruction</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>Emphasis given to individualized instruction to include the special needs student, the slow learner, and the more capable student.</td>
</tr>
<tr>
<td>EVT</td>
<td>Placement of Severely Handicapped People</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>A study of the purpose, methods, processes, and procedures used to plan, implement, and operate a Vocational Rehabilitation Cooperative School Counseling Program.</td>
</tr>
<tr>
<td>EVT</td>
<td>Current Trends</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>Historical information, issues, current trends, new dimensions, and problems in adult and vocational education and related areas.</td>
</tr>
<tr>
<td>EVT</td>
<td>Methods, Procedures, and Processes of Vocational Evaluation</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>A study of the purposes, methods, processes and procedures used to plan, implement, and operate a vocational evaluation program.</td>
</tr>
<tr>
<td>EVT</td>
<td>Staff Development</td>
<td>1-5</td>
<td>ED</td>
<td>EDV</td>
<td>Implementation of new procedures addressed to discrete developmental needs of the staff as identified by an educational agency.</td>
</tr>
<tr>
<td>EVT</td>
<td>Seminar</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>Focuses on special topics, interaction with visiting scholars, recent</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>CR</td>
<td>Type</td>
<td>Co -</td>
<td>Description</td>
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</tr>
<tr>
<td>EVT</td>
<td>Research and major initiatives within the profession.</td>
<td>3-6</td>
<td>ED</td>
<td>EDV</td>
<td>A problem-centered field study in the local community, school, government, office, social agency, business, or industry.</td>
</tr>
<tr>
<td>EVT</td>
<td>Practicum: Industrial-Technical Education</td>
<td></td>
<td></td>
<td></td>
<td>S/U.</td>
</tr>
<tr>
<td>EVT</td>
<td>Foundations And Philosophy Of Vocational, Technical And Adult Education</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>PR: Preliminary admission to the advanced graduate program and/or CI.</td>
</tr>
<tr>
<td>EVT</td>
<td>Career Development in Vocational, Technical, and Adult education</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>PR: Preliminary admission to the advanced Graduate Program and CI.</td>
</tr>
<tr>
<td>EVT</td>
<td>Instructional Development For Vocational, Technical, And Adult Education</td>
<td>4</td>
<td>ED</td>
<td>EDV</td>
<td>PR: Completion of program requirements in measurement and research or DPR. Available to majors only.</td>
</tr>
<tr>
<td>EVT</td>
<td>Vocational And Adult Education Program Planning And Implementation</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>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.</td>
</tr>
<tr>
<td>EVT</td>
<td>Research Seminar In Vocational, Technical, And Adult Education</td>
<td>3</td>
<td>ED</td>
<td>EDV</td>
<td>PR: Completion of program requirements in measurement and research or DPR. Available to majors only.</td>
</tr>
<tr>
<td>EVT</td>
<td>Directed Research in Vocational Education</td>
<td>1-19</td>
<td>ED</td>
<td>EDV</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>EVT</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDV</td>
<td>PR: Admitted</td>
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587
<table>
<thead>
<tr>
<th>EXP</th>
<th>6307</th>
<th>Motivation and Emotion</th>
<th>3</th>
<th>AS</th>
<th>PSY</th>
<th>PR: CI.</th>
<th>A detailed examination of human motivation and emotion from both the physiological and psychological viewpoints.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXP</td>
<td>6526</td>
<td>Human Memory</td>
<td>3</td>
<td>AS</td>
<td>PSY</td>
<td>PR: Admission to graduate program in Psychology or CI.</td>
<td></td>
</tr>
<tr>
<td>EXP</td>
<td>6608</td>
<td>Cognitive Psychology</td>
<td>3</td>
<td>AS</td>
<td>PSY</td>
<td>PR: Admission to graduate program in Psychology or CI.</td>
<td></td>
</tr>
<tr>
<td>EXP</td>
<td>6643</td>
<td>Psychology of Language</td>
<td>3</td>
<td>AS</td>
<td>PSY</td>
<td>PR: GS.</td>
<td>A survey of the research and theory dealing with higher memory, language, and the higher mental processes. Core requirement for all graduate students in Psychology.</td>
</tr>
<tr>
<td>EXP</td>
<td>6930</td>
<td>Topics in Experimental Psychology</td>
<td>3</td>
<td>AS</td>
<td>PSY</td>
<td>PR: CI.</td>
<td>Electrophysiological methods and psychophysiology.</td>
</tr>
<tr>
<td>EXP</td>
<td>7099</td>
<td>Graduate Seminar in Experimental Psychology</td>
<td>1-3</td>
<td>AS</td>
<td>PSY</td>
<td>PR: CI.</td>
<td>Seminars on topics, such as learning, perception, memory, cognitive processes, and quantitative methods.</td>
</tr>
<tr>
<td>FIL</td>
<td>5205C</td>
<td>Cinematography</td>
<td>4</td>
<td>VP</td>
<td>ART</td>
<td>PR: PGY 4520C.</td>
<td>Advanced studio work using black and white, color and sound as technical and aesthetic factors in visual, artistic productions.</td>
</tr>
<tr>
<td>FIL</td>
<td>6206C</td>
<td>Cinematography</td>
<td>4</td>
<td>VP</td>
<td>ART</td>
<td>PR: CI. Registration by contract only.</td>
<td></td>
</tr>
<tr>
<td>FIN</td>
<td>6246</td>
<td>Advanced Money and Capital Markets</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: ECO 6204</td>
<td>The study of the role of financial markets, instruments, and institutions in the economy. It includes the study of flow of funds, interest rate determination, and the pricing of capital assets.</td>
</tr>
<tr>
<td>FIN</td>
<td>6326</td>
<td>Bank Management</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406</td>
<td>Theory, policy and practice of commercial bank management with emphasis on strategic issues and decision making in an expanding financial services environment.</td>
</tr>
<tr>
<td>FIN</td>
<td>6406</td>
<td>Financial Management</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
<td>PR: ACG 6025 and ECO 6114</td>
<td>The study of processes, decision structures, and institutional arrangements concerned with the acquisition and utilization of funds by a firm. The course includes the management of the asset and liability structures of the firm under both certainty and uncertainty.</td>
</tr>
<tr>
<td>FIN</td>
<td>6416</td>
<td>Advanced Financial Management</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406 or equivalent.</td>
<td>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.</td>
</tr>
<tr>
<td>FIN</td>
<td>6418</td>
<td>Working Capital Management</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406</td>
<td>This course is designed to provide the student with an understanding of short-term financial management which includes decision making concerning sources and uses of cash flows to support short-term operations.</td>
</tr>
<tr>
<td>FIN</td>
<td>6445</td>
<td>Financial Policy</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406 or CI</td>
<td>A case study approach to financial policy and strategy with emphasis on the firm's major financial decisions.</td>
</tr>
<tr>
<td>FIN</td>
<td>6445</td>
<td>Financial Policy</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406 or CI</td>
<td>A case study approach to financial policy and strategy with emphasis on the firm's major financial decisions.</td>
</tr>
<tr>
<td>FIN</td>
<td>6515</td>
<td>Investments</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406, CC</td>
<td>An examination of the risks and returns of alternative investment media within the framework of various valuation models. Special attention is given to the investment process and the criteria for investment decisions.</td>
</tr>
<tr>
<td>FIN</td>
<td>6605</td>
<td>International Financial Management</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406 or equiv., CC</td>
<td>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.</td>
</tr>
<tr>
<td>FIN</td>
<td>6804</td>
<td>Theory of Finance</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406 or CI</td>
<td>A systematic and rigorous course in the theory of finance. Topics will include the theory of choice and the allocation of financial resources, the theory of optimal investment decisions and the theory of risk and uncertainty in financial decisions. It will also cover the theoretical concepts underlying financing decisions and the cost of capital.</td>
</tr>
<tr>
<td>FIN</td>
<td>6906</td>
<td>Independent Study</td>
<td>Var.</td>
<td>BA</td>
<td>FIN</td>
<td>PR: CC. S/U.</td>
<td>Students must have a contract with an instructor.</td>
</tr>
<tr>
<td>FIN</td>
<td>6915</td>
<td>Directed Research</td>
<td>Var.</td>
<td>BA</td>
<td>FIN</td>
<td>PR: GR, ML, CC. S/U.</td>
<td>Depends upon the scope and magnitude of the work required. Includes special lecture series.</td>
</tr>
<tr>
<td>FIN</td>
<td>6934</td>
<td>Selected Topics in Finance</td>
<td>1-4</td>
<td>BA</td>
<td>FIN</td>
<td>PR: GS and CI.</td>
<td>The study of advanced theoretical and empirical works in finance primarily relating to financial decisions at the level of the firm.</td>
</tr>
<tr>
<td>FIN</td>
<td>7808</td>
<td>Advanced Micro Finance</td>
<td>3</td>
<td>BA</td>
<td>FIN</td>
<td>PR: FIN 6406, FIN 6804, ECO 6424 or Departmental approval.</td>
<td>The study of advanced theoretical and empirical works in finance primarily relating to financial decisions at the level of the firm.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Degree</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>FIN 7817</td>
<td>Financial Markets</td>
<td>3 BA</td>
<td>FIN</td>
<td></td>
<td>PR: FIN 6246, FIN 6515, or Departmental approval.</td>
<td>The study of advanced theoretical and empirical works in finance primarily relating to financial institutions and markets.</td>
<td></td>
</tr>
<tr>
<td>FIN 7930</td>
<td>Selected Topics in Finance</td>
<td>3 BA</td>
<td>FIN</td>
<td></td>
<td>PR: FIN 7808, QMB 7566, or Departmental approval.</td>
<td>A study of selected topics of current issues on the frontiers of financial thought.</td>
<td></td>
</tr>
<tr>
<td>FIN 7935</td>
<td>Finance Research Seminar</td>
<td>3 BA</td>
<td>FIN</td>
<td></td>
<td>PR: One semester of FIN 7930.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>FLE 5145</td>
<td>Language Principles, Acquisition and Teaching</td>
<td>3 ED</td>
<td>EDX</td>
<td></td>
<td>PR: FLE 5345</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>FLE 5291</td>
<td>Technology in the Foreign Language Classroom</td>
<td>3 ED</td>
<td>EDX</td>
<td></td>
<td>PR: FLE 5313 and FLE 5331.</td>
<td>This course is designed to provide training in the theory and methods of teaching foreign languages and ESOL in the elementary school (FLES) to both pre- and in-service teachers.</td>
<td></td>
</tr>
<tr>
<td>FLE 5313</td>
<td>Methods of Teaching Foreign Language and ESOL in the Elementary School</td>
<td>3 ED</td>
<td>EDX</td>
<td></td>
<td>PR: FLE 5313.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>FLE 5331</td>
<td>Methods of Teaching Foreign Language and ESOL in the Secondary School</td>
<td>3 ED</td>
<td>EDX</td>
<td></td>
<td>PR: FLE 5313.</td>
<td>This course is restricted to Education majors and is not repeatable for credit. It is designed to prepare preprofessional teachers to provide</td>
<td></td>
</tr>
<tr>
<td>FLE 5345</td>
<td>Teaching English Language Learners K-</td>
<td>3 ED</td>
<td>EDX</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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</tr>
<tr>
<td>FLE 5366</td>
<td>ESOL Education in Content Areas</td>
<td>3</td>
<td>ED, EDX</td>
<td>Enables participants to meet the special linguistic &amp; cultural educational needs of limited English proficient (LEP) students in content area classes. Provides a theoretical &amp; practical foundation for ESOL competencies in courses include ESOL infusion.</td>
<td></td>
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<tr>
<td>FLE 5430</td>
<td>ESOL I - Theory and Practice of Teaching English Language Learners</td>
<td>3</td>
<td>ED, EDX</td>
<td>This course is for undergraduate degree holding, preprofessional (preservice) teachers to learn about appropriate instruction, assessment and learning opportunities for Limited English Proficient (LEP) students in the content areas.</td>
<td></td>
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</tr>
<tr>
<td>FLE 5431</td>
<td>ESOL II - Secondary Language &amp; Literacy Acquisition in Children &amp; Adolescents</td>
<td>3</td>
<td>ED, EDX, PR: FLE 5430.</td>
<td>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.</td>
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</tr>
<tr>
<td>FLE 5432</td>
<td>ESOL III - Language Principles, Acquisition &amp; Assessment for English Language Learners</td>
<td>3</td>
<td>ED, EDX, PR: FLE 5431.</td>
<td>This course provides an overview of the components of language, linking them to methods and techniques of providing comprehensible instruction to LEP students.</td>
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<tr>
<td>FLE 5895</td>
<td>Dual Language Education</td>
<td>3</td>
<td>ED, EDX</td>
<td>This course is for teachers who are interested in bilingual education. The aim is to deconstruct the philosophical, theoretical, political, social and educational underpinning of instruction (K-16) when it is delivered through two languages.</td>
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</tr>
<tr>
<td>FLE 5940</td>
<td>ESOL Practicum</td>
<td>1-3</td>
<td>ED, EDX, PR: FLE 5345 and FLE 5145. Must be taken in the semester prior to final internship.</td>
<td>This course is restricted to Education majors and will not be repeatable for credit. A structured field experience with Limited English Proficient students.</td>
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</tr>
<tr>
<td>FLE 5946</td>
<td>Practicum in Foreign Language/ESOL Teaching</td>
<td>3</td>
<td>ED, EDX, PR: FLE 5313. CR: FLE 5331.</td>
<td>This course prepares students for their internship by providing a structured pre-internship experience while meeting regularly in a university class. Opportunity to see</td>
<td></td>
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</tr>
</tbody>
</table>

linguistically and culturally appropriate instruction, assessment, and learning opportunities for LEP students.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisites/Approval Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLE 6829</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>ED EDX</td>
<td>PR: CC. S/U only. Special course to be used primarily for the training of graduate teaching assistants.</td>
</tr>
<tr>
<td>FLE 6906</td>
<td>Independent Study in Foreign Language Education</td>
<td>1-6</td>
<td>ED EDX</td>
<td>PR: Approval of graduate advisor. Independent Study in which students must have a contract with an instructor. Rpt. S/U</td>
</tr>
<tr>
<td>FLE 6932</td>
<td>Selected Topics in Second Language Acquisition</td>
<td>3</td>
<td>ED EDX</td>
<td>PR: Approval of graduate advisor. 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</td>
</tr>
<tr>
<td>FLE 6947</td>
<td>Internship</td>
<td>6</td>
<td>ED EDX</td>
<td>PR: CI. Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: CI)</td>
</tr>
<tr>
<td>FOL 5906</td>
<td>Directed Study</td>
<td>1-3</td>
<td>AS WLE</td>
<td>PR: FOL 4101 or equivalent. Research methods. Includes familiarity with major journals and bibliographies, with a practicum.</td>
</tr>
<tr>
<td>FOW 6805</td>
<td>Bibliography</td>
<td>1</td>
<td>AS WLE</td>
<td>S/U. Research methods. Includes familiarity with major journals and bibliographies, with a practicum.</td>
</tr>
<tr>
<td>FRE 5425</td>
<td>Advanced Written Expression</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: FRE 4421, or equivalent. Course is designed to give advanced training in free composition in French.</td>
</tr>
<tr>
<td>FRE 5566</td>
<td>Contemporar y France</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: FRE 3500 or equivalent or graduate standing. 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.</td>
</tr>
<tr>
<td>Course No.</td>
<td>Title</td>
<td>Credits</td>
<td>Gen Ed</td>
<td>Language</td>
</tr>
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<tr>
<td>FRW 5222</td>
<td>Classical Prose and Poetry</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: FRW 4101.</td>
</tr>
<tr>
<td>FRW 5314</td>
<td>Classical Drama</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: FRW 4101.</td>
</tr>
<tr>
<td>FRW 5415</td>
<td>Literature of the Middle Ages</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: FRW 4100 or FRW 4101.</td>
</tr>
<tr>
<td>FRW 5425</td>
<td>Literature of the Renaissance</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: FRW 4100 or FRW 4101.</td>
</tr>
<tr>
<td>FRW 5445</td>
<td>18th Century Literature</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: FRW 4100.</td>
</tr>
<tr>
<td>FRW 5535</td>
<td>Romanticism and Early Realism</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: FRW 4101.</td>
</tr>
<tr>
<td>FRW 5556</td>
<td>Naturalism and Realism</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: FRW 4100 or FRW 4101.</td>
</tr>
<tr>
<td>FRW 5745</td>
<td>French Literature of Quebec</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: A survey of Francophone literature and cultures is recommended.</td>
</tr>
<tr>
<td>FRW 5755</td>
<td>African and Caribbean Literature</td>
<td>3</td>
<td>AS WLE</td>
<td>PR: A survey of French literature.</td>
</tr>
<tr>
<td>FRW 5829</td>
<td>An Introduction to Modern French Literary Criticism</td>
<td>3</td>
<td>AS WLE</td>
<td></td>
</tr>
<tr>
<td>Code</td>
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<td>Language</td>
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<tr>
<td>FRW 5934</td>
<td>Selected Topics</td>
<td>1-3</td>
<td>AS</td>
<td>WLE</td>
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<tr>
<td>FRW 6315</td>
<td>Seminar on Classical Drama</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
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<tr>
<td>FRW 6405</td>
<td>Old French</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td>FRW 6938</td>
<td>Graduate Seminar</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td>GEA 6195</td>
<td>Seminar in Advanced Regional Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
</tr>
<tr>
<td>GEA 6215</td>
<td>Seminar in North American Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
</tr>
<tr>
<td>GEA 6252</td>
<td>Seminar in the Geography of the American South</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
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<tr>
<td>GEA 6405</td>
<td>Seminar in Latin American and Caribbean Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
</tr>
<tr>
<td>GEA 6504</td>
<td>Seminar in European Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
</tr>
<tr>
<td>GEA 6745</td>
<td>Seminar in the Geography of South Asia</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
</tr>
<tr>
<td>GEB 6115</td>
<td>New Venture Formation</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
</tr>
<tr>
<td>Course Code</td>
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<td>PR:</td>
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<tr>
<td>GEB 6116</td>
<td>Business Plan Development</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
</tr>
<tr>
<td>GEB 6117</td>
<td>Consulting Field Project</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
</tr>
<tr>
<td>GEB 6445</td>
<td>Social, Ethical, Legal Systems</td>
<td>2</td>
<td>BA</td>
<td>MBA</td>
</tr>
<tr>
<td>GEB 6895</td>
<td>Integrated Business Applications I</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
</tr>
<tr>
<td>GEB 6896</td>
<td>Integrated Business Applications II</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
</tr>
<tr>
<td>GEB 6930</td>
<td>Selected Topics</td>
<td>3</td>
<td>BA</td>
<td>MBA</td>
</tr>
<tr>
<td>GEB 6949</td>
<td>Consulting Field Project</td>
<td>3</td>
<td>BA</td>
<td>GBA</td>
</tr>
<tr>
<td>GEB 6971</td>
<td>Thesis: Master's</td>
<td>1-19</td>
<td>BA</td>
<td>MBA</td>
</tr>
<tr>
<td>GEO 5134C</td>
<td>Advanced Remote Sensing</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
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</table>
classification algorithms with emphasis on developing.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Level</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>GEO 5157</td>
<td>Advanced Geographic Information Systems</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>GEO 5177</td>
<td>GIS for Non-Majors</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>An introduction to the concepts underlying digital thematic mapping and geographical information systems (GIS) for non-geography majors and non-geography graduate students.</td>
<td></td>
</tr>
<tr>
<td>GEO 5215</td>
<td>Advances in Geomorphology</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 4372 or CI.</td>
<td>Advanced examination of geomorphic processes and landforms with an emphasis on Florida.</td>
</tr>
<tr>
<td>GEO 5263</td>
<td>Advances in Soils</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 4372 or CI.</td>
<td>Examination of how earth systems influence soil formation and variation. Details analysis of soils climosequences, biosequences, toposequences, lithosequences, chronosequences, and anthrosequences.</td>
</tr>
<tr>
<td>GEO 5288</td>
<td>Hydrological Systems</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 4372 or CI.</td>
<td>A systematic approach to hydrology using the drainage basin as the fundamental unit of analysis is used to explore form and process, while modeling streamflows.</td>
</tr>
<tr>
<td>GEO 5347</td>
<td>Advances in Natural Hazards</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 4372 or CI.</td>
<td>Analysis of natural hazards integrating principles of physical, social, economic, political, and technical forces that affect extreme geophysical events.</td>
</tr>
<tr>
<td>GEO 5475</td>
<td>Advanced Political Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 4470 or CI.</td>
<td>Advanced investigation of geopolitical issues including: the human construction of territoriality, ethnic relations, the making of nations and states, the geopolitics of localities, and environmental policy making.</td>
</tr>
<tr>
<td>GEO 5545</td>
<td>Advanced Economic Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 4502 or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>GEO 5605</td>
<td>Contemporary Urban Issues</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 3602; GEO 4604; or CI.</td>
<td>Advanced survey of urban issues such as: industrial restructuring and urban development, inner-city ethnic relations, the geopolitics of urban governance, and urban culture.</td>
</tr>
<tr>
<td>GEO 5704</td>
<td>Advanced Transportation</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GEO 4114; GEO 4700; or</td>
<td>Review of transportation issues and analysis, focusing on modeling and</td>
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<td>Credits</td>
<td>Level</td>
<td>Prerequisites</td>
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<tr>
<td>GEO 6058</td>
<td>Geographic Literature and History</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>The origins and development of the discipline as revealed through an examination of the principal written sources. Special attention paid to leading personalities and modern periodicals.</td>
<td></td>
</tr>
<tr>
<td>GEO 6115</td>
<td>Advanced Field Techniques</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Field examination of one region. Students will complete field work in human and physical geography in a selected area.</td>
<td></td>
</tr>
<tr>
<td>GEO 6116</td>
<td>Perspectives on Environmental Thought</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>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.</td>
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<tr>
<td>GEO 6119</td>
<td>Seminar in Advanced Techniques and Methodology</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Analytic study of a technique or investigation into an aspect of methodology.</td>
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</tr>
<tr>
<td>GEO 6137</td>
<td>Readings in Remote Sensing</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Analytic study of selected topics in remote sensing. Discussions around topics include data acquisition, sensor systems, multispectral and radar image analysis, change detection, and integration of remote sensing with GIS.</td>
<td></td>
</tr>
<tr>
<td>GEO 6146</td>
<td>Readings in GIS</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>GEO 6166</td>
<td>Advanced Statistical Methods</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Examination of advanced statistical approaches used by geographers. Descriptive, spatial and inferential statistics and multi-variate analysis are highlighted.</td>
<td></td>
</tr>
<tr>
<td>GEO 6178</td>
<td>Environmental Applications of Geographic Information Systems</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Examination of GIS applications in agriculture, forestry, wildlife management, biodiversity conservation, environmental assessment, water resources, and pollution modeling. Use of advanced GIS analysis techniques relevant to the specific applications.</td>
<td></td>
</tr>
<tr>
<td>GEO 6209C</td>
<td>Seminar in Advanced Physical</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>Analytic study of one or more topics from physical geography. Selected problems may include hydrology,</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Offered</td>
<td>Notes</td>
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<tr>
<td>GEO 6217</td>
<td>Historical Geomorphology</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography or CI.</td>
<td>An in-depth examination of the use of historical evidence in geomorphic studies. The objectives, methods and results of studies in which historical sources have been applied to geomorphic problems are reviewed.</td>
</tr>
<tr>
<td>GEO 6255</td>
<td>Weather, Climate and Society</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>GEO 6286</td>
<td>Advances in Water Resources</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography or CI.</td>
<td>Water resources policies are viewed from theoretical and practical perspectives focusing on management strategies in different physical and human environments.</td>
</tr>
<tr>
<td>GEO 6345</td>
<td>Technological Hazards and Environmental Justice</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>GEO 6428</td>
<td>Seminar in Advanced Human Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography, CI.</td>
<td>Analytic study of a problem selected from aspects of the human landscape (urban, political, economic, population, settlement).</td>
</tr>
<tr>
<td>GEO 6566</td>
<td>Site Feasibility Analysis</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>GEO 6908</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>GPY</td>
<td>S/U.</td>
<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>GEO 6918</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GR. ML, CC. S/U.</td>
<td>The internship in Geography is designed to provide students the opportunity to work in an appropriate governmental agency to</td>
</tr>
<tr>
<td>GEO 6944</td>
<td>Internship in Geography</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>PR: GS in Geography, CC. S/U.</td>
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598
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Type</th>
<th>Department</th>
<th>Specific Requirements</th>
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<tr>
<td>GEO 6947</td>
<td>Directed Teaching</td>
<td>1-6 AS</td>
<td>GPY</td>
<td>GEO</td>
<td>gain practical field experience.</td>
</tr>
<tr>
<td>GER 5605</td>
<td>Goethe</td>
<td>3     AS</td>
<td>WLE</td>
<td>GER</td>
<td>Selected dramas and critical writings by Lessing, Wieland, Kant.</td>
</tr>
<tr>
<td>GER 5845</td>
<td>History of the German Language</td>
<td>3     AS</td>
<td>WLE</td>
<td>GER</td>
<td>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.</td>
</tr>
<tr>
<td>GER 6060</td>
<td>German for Reading</td>
<td>3     AS</td>
<td>WLE</td>
<td>GER</td>
<td>Designed to provide a reading ability in German that will support research in other disciplines.</td>
</tr>
<tr>
<td>GER 6908</td>
<td>Independent Study</td>
<td>1-19 AS</td>
<td>WLE</td>
<td>GER</td>
<td>Independent study in which student must have a contract with an instructor.</td>
</tr>
<tr>
<td>GEW 5475</td>
<td>20th Century Literature to 1945</td>
<td>3     AS</td>
<td>WLE</td>
<td>GEW</td>
<td>A study of major styles in German literature from 1900 to WW II with emphasis on Hauptmann, Schnitzler, Hofmannsthal, George Rilke, Kaiser, Heym, Trakl, Thomas Mann, Hesse, Kafka, Benn, Brecht.</td>
</tr>
<tr>
<td>GEW 5489</td>
<td>20th Century Literature: 1945 to Present</td>
<td>3     AS</td>
<td>WLE</td>
<td>GEW</td>
<td>Study of major trends in German literature since WW II with emphasis on Borchert, Frisch, Durrenmatt, Boll, Uwe, Johnson, Grass, Aichinger, Eich Enzensberger, Bachmann.</td>
</tr>
<tr>
<td>GEW 5515</td>
<td>The Enlightenment</td>
<td>3     AS</td>
<td>WLE</td>
<td>GEW</td>
<td>Selected dramas and critical writings by Lessing, Wieland, Kant.</td>
</tr>
<tr>
<td>GEW 5545</td>
<td>Romanticism</td>
<td>3     AS</td>
<td>WLE</td>
<td>GEW</td>
<td>Jenaer circle and Heidelberger circle; the late romantic period, the writers between Classicism and Romanticism.</td>
</tr>
<tr>
<td>GEW 5555</td>
<td>Realism</td>
<td>3     AS</td>
<td>WLE</td>
<td>GEW</td>
<td>Selected works by Grillparzer, Grabbe, Buchner, Hebel, Heine, Immerman, Stifter, Keller, Meyer, Storm, Raabe, Hulshoff, and Morike.</td>
</tr>
<tr>
<td>GEW 5606</td>
<td>Faust</td>
<td>3     AS</td>
<td>WLE</td>
<td>GEW</td>
<td>Sources, form, content, and literary significance of Urfaust and Faust.</td>
</tr>
<tr>
<td>GEW 5615</td>
<td>Schiller</td>
<td>3     AS</td>
<td>WLE</td>
<td>GEW</td>
<td>Selected dramas, philosophical, and aesthetical writings.</td>
</tr>
<tr>
<td>GEW 5934</td>
<td>Selected Topics</td>
<td>1-3 AS</td>
<td>WLE</td>
<td>GEW</td>
<td>Study of an author, movement or theme.</td>
</tr>
<tr>
<td>GEW 5925</td>
<td>Sociological Aspects Of Aging</td>
<td>3     AS</td>
<td>GEW</td>
<td>GEW</td>
<td>Examines, within a sociological frame of reference, the interrelationships between the aged</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Area Code</td>
<td>Notes</td>
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<tr>
<td>GEY 5630</td>
<td>Economics and Aging</td>
<td>3</td>
<td>AS</td>
<td>Examines basic economic systems as they impact the aged. Emphasis is on applied aspects of economic planning, pensions, insurance, social security and other support systems.</td>
<td></td>
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<tr>
<td>GEY 5642</td>
<td>Perspectives on Death and Dying</td>
<td>3</td>
<td>AS</td>
<td>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.</td>
<td></td>
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<tr>
<td>GEY 6325</td>
<td>Social Policy and Planning for Gerontologists</td>
<td>3</td>
<td>AS</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>GEY 6340</td>
<td>Housing for the Elderly</td>
<td>3</td>
<td>AS</td>
<td>Major issues and aspects of conventional and planned housing for the elderly. Several field trips will be taken.</td>
<td></td>
</tr>
<tr>
<td>GEY 6450</td>
<td>Gerontologic al Research and Planning</td>
<td>3</td>
<td>AS</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>GEY 6500</td>
<td>Seminar in Principles of Administration</td>
<td>3</td>
<td>AS</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>GEY 6600</td>
<td>Human Development and Aging</td>
<td>3</td>
<td>AS</td>
<td>Normal aging, change and basic psychological processes will be examined from a human development perspective. Emphasis will be on middle aged and older adults in relation to Life Cycle Changes and Counseling Approaches.</td>
<td></td>
</tr>
<tr>
<td>GEY 6613</td>
<td>Physical Change and Aging</td>
<td>3</td>
<td>AS</td>
<td>Common, normal and pathological physical changes associated with aging will be discussed as they affect behavior. Aspects of physical and mental illness and pharmacology with gerontological relevance will be surveyed.</td>
<td></td>
</tr>
<tr>
<td>GEY 6614</td>
<td>Psychopathol</td>
<td>3</td>
<td>AS</td>
<td>Examination of the basic principles (or aging) and the structure and function of the social system and its major institutionalized subsystems.</td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Notes</td>
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<tr>
<td>GEY 6615</td>
<td>Psychopathology and Aging II</td>
<td>3</td>
<td>AS</td>
<td>A continuation of Psychopathology and Aging I. It familiarizes the student with the psychopathology of aging. Major topics in the DSM-IV will be covered.</td>
<td></td>
</tr>
<tr>
<td>GEY 6616</td>
<td>Mental Health Assessment of Older Adults</td>
<td>3</td>
<td>AS</td>
<td>Designed to provide the mental health counselor with a basic understanding of evaluation principles and the application of assessment approaches to older adults.</td>
<td></td>
</tr>
<tr>
<td>GEY 6617</td>
<td>Gerontologic Counseling Theories and Practice</td>
<td>3</td>
<td>AS</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>GEY 6618</td>
<td>Gerontologic Group and Family Counseling</td>
<td>3</td>
<td>AS</td>
<td>An advanced course directed at clinical practice with older adults. Appropriate techniques and skills will be integrated with models of psychotherapy, counseling, and personality development. Primary focus will be on intervention with groups, families, and couples.</td>
<td></td>
</tr>
<tr>
<td>GEY 6646</td>
<td>Gerontologic Issues and Concepts</td>
<td>3</td>
<td>AS</td>
<td>This course presents the concepts, theories, and issues relevant to our aging society. Emphasis will be placed on generalized knowledge of the aging process, and implications for the individual, family, government, and society in general. Students will engage in spirited debate and gain important background that will prepare them for their other graduate work in Gerontology, Social Work, and related fields.</td>
<td></td>
</tr>
<tr>
<td>GEY 6647</td>
<td>Ethical and Legal Issues in Aging</td>
<td>3</td>
<td>AS</td>
<td>A consideration of major ethical and legal issues in aging and their implications for policies, priorities, and services.</td>
<td></td>
</tr>
<tr>
<td>GEY 6901</td>
<td>Directed</td>
<td>1-6</td>
<td>AS</td>
<td>A reading program of selected topics</td>
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<td>Course Code</td>
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<td>Type</td>
<td>Description</td>
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<td>GEY 6910</td>
<td>Directed Research</td>
<td>1-6</td>
<td>AS</td>
<td>GEY PR: CI. S/U. Courses on topics such as preretirement, mental health, human services organization, and senior center administration.</td>
<td></td>
</tr>
<tr>
<td>GEY 6934</td>
<td>Special Topics In Gerontology</td>
<td>3</td>
<td>AS</td>
<td>GEY PR: CI. S/U. An internship in an agency or organization engaged in planning or administering programs for older people.</td>
<td></td>
</tr>
<tr>
<td>GEY 6940</td>
<td>Field Placement</td>
<td>1-6</td>
<td>AS</td>
<td>GEY PR: CI. S/U. A highly structured supervised counseling experience providing mental health services to older adults.</td>
<td></td>
</tr>
<tr>
<td>GEY 6941</td>
<td>Field Placement in Mental Health</td>
<td>1-6</td>
<td>AS</td>
<td>GEY PR: CI. S/U. A highly structured supervised counseling experience providing mental health services to older adults.</td>
<td></td>
</tr>
<tr>
<td>GEY 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>GEY S/U. An advanced reading program of selected topics related to interdisciplinary avenues of inquiry under the supervision of an aging studies faculty member. A written contract describing the requirements must be signed by the student and faculty member prior to registration.</td>
<td></td>
</tr>
<tr>
<td>GEY 7902</td>
<td>Directed Individual Study in Aging Studies</td>
<td>1-9</td>
<td>AS</td>
<td>GEY PR: CI. S/U. Research on selected topics in aging studies under the direct supervision of a member of the graduate faculty in aging studies.</td>
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<tr>
<td>GEY 7936</td>
<td>Proseminar in Aging Studies</td>
<td>1-2</td>
<td>AS</td>
<td>GEY PR: CI. S/U. Reading and discussion of current topics, books, articles, and papers in aging studies. Examination of theory and research issues in the field of gerontology. Students develop their dissertation research topics, preliminary review of literature, and present their dissertation research proposals.</td>
<td></td>
</tr>
<tr>
<td>GEY 7980</td>
<td>Dissertation and Doctoral</td>
<td>2-12</td>
<td>AS</td>
<td>GEY PR: Completion of Qualifying Examination, Admission to Candidacy.</td>
<td></td>
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<tr>
<td>GLY 5752</td>
<td>Geological Field Excursion</td>
<td>2</td>
<td>AS</td>
<td>GLY PR: Senior standing in geology or CI. 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.</td>
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<tr>
<td>GLY</td>
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<td>GLY</td>
<td>Statistical Models in Geology</td>
<td>3</td>
<td>AS</td>
<td>GLY</td>
<td>PR: STA 2023 or equivalent or CI.</td>
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<td>GLY</td>
<td>Selected Topics in Geology</td>
<td>1-4</td>
<td>AS</td>
<td>GLY</td>
<td>PR: Senior or advanced junior standing.</td>
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<td>GLY</td>
<td>Greenhouse-Icehouse Earth</td>
<td>3</td>
<td>AS</td>
<td>GLY</td>
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<tr>
<td>GLY</td>
<td>Geology of North America</td>
<td>2</td>
<td>AS</td>
<td>GLY</td>
<td>PR: GS or CI.</td>
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<tr>
<td>GLY</td>
<td>General Geochemistry</td>
<td>3</td>
<td>AS</td>
<td>GLY</td>
<td>PR: One year college Chemistry, GLY 3200 or CI.</td>
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<td>GLY</td>
<td>Sedimentary Petrography</td>
<td>3</td>
<td>AS</td>
<td>GLY</td>
<td>PR: GLY 6246 or CI.</td>
</tr>
<tr>
<td>GLY</td>
<td>Analytical Techniques in Geology</td>
<td>3</td>
<td>AS</td>
<td>GLY</td>
<td>PR: One year college Chemistry, GLY 4310 or CI.</td>
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<td>GLY</td>
<td>Topics in Igneous and Metamorphic Petrology</td>
<td>3</td>
<td>AS</td>
<td>GLY</td>
<td>PR: GLY 3311C or equivalent, or CI.</td>
</tr>
<tr>
<td>GLY</td>
<td>Sedimentary Petrography</td>
<td>3</td>
<td>AS</td>
<td>GLY</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>GLY</td>
<td>Global Tectonics</td>
<td>2</td>
<td>AS</td>
<td>GLY</td>
<td>PR: GS or CI.</td>
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<td>GLY</td>
<td>Principles of Applied Geophysics</td>
<td>4</td>
<td>AS</td>
<td>GLY</td>
<td>PR: One year of Physics or CI.</td>
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<tr>
<td>GLY 6526</td>
<td>Advanced Stratigraphy</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: OCG 6656 or equiv. or CI.</td>
<td>Theory and practice of biostratigraphy of major microfossil groups. Emphasis on selected techniques of correlation. Detailed consideration of stratigraphic zonations, problems and limitations. Readings of current literature.</td>
</tr>
<tr>
<td>GLY 6575C</td>
<td>Coastal Sedimentation</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: GLY 4555 or equiv. or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>GLY 6655</td>
<td>Topics in Paleobiology</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: GLY 3610 equiv., PCB 4674 or equiv. or CI.</td>
<td>Theory and practice of modern paleobiology including, consideration of diversity and extinction patterns, documentation and causes of trends, patterns, and causes of speciation, functional analysis and adaptation, tempo and mode in evolution, and the ecological context of evolutionary change.</td>
</tr>
<tr>
<td>GLY 6739</td>
<td>Selected Topics in Geology</td>
<td>1-4</td>
<td>AS</td>
<td>GLY PR: CI.</td>
<td>Each topic is a course directed by a faculty member. All areas of geology are included.</td>
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<tr>
<td>GLY 6827C</td>
<td>Advanced Hydrogeology</td>
<td>4</td>
<td>AS</td>
<td>GLY PR: GLY 4822, one year college calculus or CI.</td>
<td>Flow systems, analytical and numerical solutions to ground-water flow problems. Emphasis on the theoretical aspects of ground-water flow systems and their interaction with the geologic framework. Lec/Lab. Field trips.</td>
</tr>
<tr>
<td>GLY 6828</td>
<td>Ground-Water Geochemistry</td>
<td>3</td>
<td>AS</td>
<td>GLY PR: One year of college Chemistry, GLY 4822, GLY 6246, or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>GLY 6905</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>GLY PR: CC. S/U.</td>
<td>Independent study in which student must have a contract with an instructor.</td>
</tr>
<tr>
<td>GLY 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>GLY PR: GR. ML, CC. S/U.</td>
<td></td>
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<tr>
<td>GLY 6931</td>
<td>Graduate Seminar</td>
<td>1</td>
<td>AS</td>
<td>GLY PR: CC. S/U.</td>
<td></td>
</tr>
<tr>
<td>GLY 6933</td>
<td>Advanced Topics in</td>
<td>2</td>
<td>AS</td>
<td>GLY PR: GS.</td>
<td>Current topics in Geology.</td>
</tr>
<tr>
<td>Course Code</td>
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<td>Type</td>
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<tr>
<td>GLY 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>GLY</td>
<td>S/U.</td>
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<tr>
<td>GLY 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>AS</td>
<td>GLY</td>
<td>PR: Admission to Candidacy. S/U.</td>
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<td>GMS 6001</td>
<td>Foundation in Biomedical Sciences</td>
<td>4-8</td>
<td>ME</td>
<td>MSG</td>
<td>PR: B.S./B.A. and admission into a Graduate Program at the University of South Florida. Instructor permission required for those not meeting these prerequisites.</td>
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<tr>
<td>GMS 6020</td>
<td>Neuroscience</td>
<td>5-6</td>
<td>ME</td>
<td>MSG</td>
<td>PR: CI.</td>
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<td>GMS 6056</td>
<td>Cancer Research Techniques</td>
<td>4</td>
<td>ME</td>
<td>MSG</td>
<td>PR: CI or CC.</td>
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<td>GMS 6065</td>
<td>Advances in Cancer Research</td>
<td>2</td>
<td>ME</td>
<td>MSG</td>
<td>PR: CI.</td>
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<td>GMS 6080</td>
<td>Cancer Biology Lab Rotations</td>
<td>1-3</td>
<td>ME</td>
<td>MSG</td>
<td>PR: CI.</td>
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<td>GMS 6091</td>
<td>Responsible Conduct and Success Skills for Emerging Bio</td>
<td>2</td>
<td>ME</td>
<td>MSG</td>
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<tr>
<td>GMS 6107</td>
<td>Advances in Virology</td>
<td>2</td>
<td>ME</td>
<td>MSG</td>
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<tr>
<td>GMS 6334</td>
<td>Pathobiology of Human Cancer</td>
<td>3</td>
<td>ME</td>
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<td>PR: Pathology Department Approval.</td>
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605
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<th>Type</th>
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<td>Cell Physiology</td>
<td>4</td>
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<td>GMS 6461</td>
<td>Systems Physiology and Pharmacology</td>
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<td>GMS 6503</td>
<td>Methods in Pharmacology</td>
<td>2-6</td>
<td>ME</td>
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<td>GMS 6512</td>
<td>Ion Channel Pharmacology and Disease</td>
<td>3</td>
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<td>GMS 6513</td>
<td>Principles of Pharmacology and Therapeutics</td>
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<td>GMS 6514</td>
<td>Instructional Skills in Pharmacology</td>
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<td>Methods of Electron Microscopy in Medical Research</td>
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<td>GMS 6602</td>
<td>Neural Correlates of Behavior</td>
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<td>Human Embryology</td>
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<td>Advanced Microscopic Anatomy</td>
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<td>Advanced Human Gross Anatomy</td>
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<td>GMS 6611</td>
<td>Introduction to Anatomical Research</td>
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<td>ME</td>
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<td>Supervised Teaching in Human Anatomy</td>
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<td>ME</td>
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<td>Selected Topics in Cancer Biology</td>
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<td>Studies in the Humanities of China</td>
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<td>India and the relationship of these arts to the Hindu and Buddhist philosophy-religions.</td>
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<td>Japanese Arts and Letters</td>
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<td>Examples from the arts and letters of Japan, their relationship to Zen Buddhism and other Japanese philosophy-religions; Western influences on 20th century Japanese arts and letters.</td>
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<td>HUM</td>
<td>Studies in American Arts and Letters I</td>
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<td>Study of selected works dealing with the development of cultural patterns on the western frontiers and their effects on aesthetic judgment. From 1790 to 1890.</td>
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<td>HUM</td>
<td>Studies in Latin American Arts and Letters</td>
<td>3</td>
<td>AS</td>
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<tr>
<td></td>
<td>Analysis of selected Latin American works of art in their cultural context.</td>
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<tr>
<td>HUM</td>
<td>Studies in American Arts and Letters II</td>
<td>3</td>
<td>AS</td>
<td>HUM</td>
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<tr>
<td></td>
<td>Examples from the arts and letters of the U.S.; analyses of their relationships to the concepts of progress and aesthetic judgment. From 1890 to present.</td>
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<tr>
<td>HUM</td>
<td>Studies in Contemporary Arts and Letters</td>
<td>3</td>
<td>AS</td>
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<tr>
<td></td>
<td>Concentration on major artists and recent trends.</td>
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<tr>
<td>HUM</td>
<td>Studies in Classical Arts and Letters</td>
<td>3</td>
<td>AS</td>
<td>HUM</td>
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<td></td>
<td>Examples from the arts and letters of ancient Greece and their relationships to Aegean myths, religions, and philosophies. Classical Greek influences on later cultures.</td>
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<tr>
<td>HUM</td>
<td>Studies in Renaissance Arts and Letters</td>
<td>3</td>
<td>AS</td>
<td>HUM</td>
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<tr>
<td></td>
<td>Masterpieces and major artists of the Renaissance in Continental Europe and England.</td>
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<tr>
<td>HUM</td>
<td>Studies in Enlightenment Arts and Letters</td>
<td>3</td>
<td>AS</td>
<td>HUM</td>
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<tr>
<td></td>
<td>Studies in painting, sculpture, music, literature, and architecture in relation to philosophical determinism and political absolutism.</td>
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<tr>
<td>HUM</td>
<td>Studies in Nineteenth Century Arts and Letters</td>
<td>3</td>
<td>AS</td>
<td>HUM</td>
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<tr>
<td></td>
<td>Examples from the arts and letters of the nineteenth century, their relationship to philosophical, social, and historical developments, and to the arts and letters of the twentieth century.</td>
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<tr>
<td>HUM</td>
<td>Theories and</td>
<td>3</td>
<td>AS</td>
<td>HUM</td>
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<td></td>
<td>This course examines the</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
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<tr>
<td>M</td>
<td>Methods of Cultural Studies</td>
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<td>HUM</td>
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<tr>
<td>HUM 6815</td>
<td>Research in Humanities</td>
<td>3</td>
<td>HUM</td>
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</tr>
<tr>
<td>HUM 6909</td>
<td>Independent Study</td>
<td>1-19</td>
<td>HUM</td>
<td>S/U.</td>
</tr>
<tr>
<td>HUM 6915</td>
<td>Directed Research</td>
<td>1-19</td>
<td>HUM</td>
<td>PR: CI. S/U.</td>
</tr>
<tr>
<td>HUM 6939</td>
<td>Selected Topics in Humanities</td>
<td>1-3</td>
<td>HUM</td>
<td>GS.</td>
</tr>
<tr>
<td>HUM 6940</td>
<td>Internship in Humanities</td>
<td>1-3</td>
<td>HUM</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>HUM 6971</td>
<td>Thesis: Masters</td>
<td>2-19</td>
<td>HUM</td>
<td></td>
</tr>
<tr>
<td>INP 6056</td>
<td>Industrial Psychology</td>
<td>3</td>
<td>PSY</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>INP 6935</td>
<td>Topics in Industrial-Organization Psychology</td>
<td>3</td>
<td>PSY</td>
<td>PR: CI</td>
</tr>
<tr>
<td>INP 7097</td>
<td>Graduate Seminar in Industrial-Organization Psychology</td>
<td>1-3</td>
<td>PSY</td>
<td>PR: CI</td>
</tr>
<tr>
<td>INR 5012</td>
<td>Globalization</td>
<td>3</td>
<td>INT</td>
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</tr>
</tbody>
</table>

Methods of Cultural Studies: A course emphasizing the practical aspects of research in the humanities including analyzing primary sources, assembling a bibliography, synthesizing secondary sources, and defining an argument. Topic varies.

Independent Study: Independent study in which student must have a contract with an instructor.

Directed Research: A structured, out-of-class learning experience providing first-hand, practical training in Humanities-related professional careers in the community.

Thesis: Masters: In consultation with an advisor, the student plans, organizes, and writes a thesis on a topic in interdisciplinary arts and ideas.

Industrial Psychology: An introduction to the major areas of Industrial-Organization Psychology, including topics on selection and placement, training, criterion development, and performance appraisal, job satisfaction and motivation, and organizational theory and structure.

Topics in Industrial-Organization Psychology: Courses on topics such as industrial psychology, evaluation of performance in industry, and human factors.

Graduate Seminar in Industrial-Organization Psychology: Seminars on topics, such as industrial psychology, evaluation of performance in industry, and human factors.

Globalization: Examination of globalization’s impact on international relations, including literature from political science, anthropology, geography, sociology, and economics that
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Degree</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>INR</td>
<td>5086 Issues in International Relations</td>
<td>3</td>
<td>AS</td>
<td>POL</td>
<td>Sr./GS.</td>
<td>Impacts the study of the nation-state system and power. Open to majors and non-majors.</td>
</tr>
<tr>
<td>INR</td>
<td>6007 Seminar in International Relations</td>
<td>3</td>
<td>AS</td>
<td>POL</td>
<td>Sr./GS.</td>
<td>Explores specific topics and provides the student with an opportunity for in-depth study of historical and contemporary problems in international politics.</td>
</tr>
<tr>
<td>INR</td>
<td>6036 Seminar in International Political Economy</td>
<td>3</td>
<td>AS</td>
<td>POL</td>
<td>PR: POS 6736 or CI.</td>
<td>Advanced study of international relations, including survey of basic literature, analysis of numerous theoretical and methodological approaches, and analysis of major issues.</td>
</tr>
<tr>
<td>INR</td>
<td>6107 American Foreign Policy</td>
<td>3</td>
<td>AS</td>
<td>POL</td>
<td>GS.</td>
<td>Advanced study of the development and politics of the international economic system focusing on theoretical and empirical analysis of cooperation and conflict in trade, aid, and investment relationships.</td>
</tr>
<tr>
<td>ISC</td>
<td>7930 Selected Topics in Interdisciplinary Science</td>
<td>1-4</td>
<td>AS</td>
<td>IAS</td>
<td></td>
<td>Interdisciplinary studies will cell and molecular biology perspective.</td>
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<tr>
<td>ISM</td>
<td>6021 Management Information Systems</td>
<td>2</td>
<td>BA</td>
<td>QMB</td>
<td></td>
<td>An introduction to the fundamentals of information systems including an examination of information technology terminology and concepts, alternative methodologies for developing information systems, and the application and impact of information technology in contemporary organizations.</td>
</tr>
<tr>
<td>ISM</td>
<td>6123 Systems Analysis and Design</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>PR: ISM 6021 or equiv.; COBOL I or other approved language, CC.</td>
<td>This course includes the foundations and methodologies for analysis of existing systems; the design, development, and implementation of new systems.</td>
</tr>
<tr>
<td>ISM</td>
<td>6124 Advanced Systems</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td></td>
<td>This course covers advanced topics of information systems development.</td>
</tr>
<tr>
<td>ISM 6125</td>
<td>Software Architecture</td>
<td>3 BA QMB PR: ISM 6124</td>
<td>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.</td>
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<tr>
<td>ISM 6144</td>
<td>Seminar on Software Testing</td>
<td>3 BA QMB PR: ISM 6124 or an introductory course in Software Engineering.</td>
<td>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.</td>
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<tr>
<td>ISM 6155</td>
<td>Enterprise Information Systems Management</td>
<td>3 BA QMB PR: ISM 6124, ISM 6218.</td>
<td>Development of enterprise transaction processing applications using procedural or object oriented programming languages, relational database management, database sharing, CASE methodology and project management techniques. Students will work in groups on semester projects.</td>
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<tr>
<td>ISM 6217</td>
<td>Database Administration</td>
<td>3 BA QMB PR: ISM 6123 or equiv., CC.</td>
<td>Advanced principles of Database Administration. Database Organization Models. Disaster Planning for Database Files.</td>
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<tr>
<td>ISM 6225</td>
<td>Distributed Information Systems</td>
<td>3 BA QMB PR: ISM 6123, CC.</td>
<td>Analysis, design, implementation, and management of distributed information systems and networks.</td>
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<tr>
<td>ISM 6305</td>
<td>Managing the Information System Function</td>
<td>3 BA QMB PR: ISM 6021 or equiv., CC.</td>
<td>An advanced study of information system management including system planning, project selection and management, and organizational information management policies.</td>
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<tr>
<td>ISM 6382</td>
<td>International</td>
<td>3 BA QMB PR: ISM 6021</td>
<td>Role of managers and information</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Degree</td>
<td>Prerequisites</td>
<td>Course Description</td>
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<tr>
<td>ISM 6405</td>
<td>Decision Support Systems Applications</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>Study of the principles of decision making and the human computer alliance with hands-on computer-assisted decision making for an organizational environment. Case studies and/or management games using micro-computers.</td>
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<tr>
<td>ISM 6480</td>
<td>Electronic Commerce</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>This course provides a broad-based introduction to different facets of e-commerce, from both technical and managerial perspectives. Designing new e-commerce businesses as well as redesigning existing business to take advantage of e-commerce are examined. Specifically the course covers three areas: (1) e-commerce concepts, (2) e-commerce applications, and (3) e-commerce technologies.</td>
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<tr>
<td>ISM 6905</td>
<td>Independent Study</td>
<td>1-6</td>
<td>BA</td>
<td>QMB</td>
<td>Independent Study as directed by designated faculty.</td>
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<tr>
<td>ISM 6930</td>
<td>Selected Topics in MIS</td>
<td>1-6</td>
<td>BA</td>
<td>QMB</td>
<td>Selected topics in MIS.</td>
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</tr>
<tr>
<td>ISM 6971</td>
<td>Thesis: Master's</td>
<td>2-6</td>
<td>BA</td>
<td>QMB</td>
<td>Students may select the thesis option in order to complete the Master of Science in the Management Information Systems (MS/MIS) program. Faculty permission is required to register for MS Thesis credit. Six credits are the maximum number of credits allowed for MS Thesis credit.</td>
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<tr>
<td>ISM 7120</td>
<td>Information Requirements Management</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>Understanding the theoretical foundation for analyzing problem situations and determining information technology requirements; tools and skill requirements of the systems manager; and methods of managing computer-based information systems.</td>
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<tr>
<td>ISM 7140C</td>
<td>Systems Development Methodologies</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>Realistic in-depth application perspective of the tools and techniques of systems development.</td>
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<tr>
<td>ISM 7231</td>
<td>File Access Methods and Systems Software</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>An information system, viewed as a user application process interacting with data in a particular hardware/software environment, is</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Degree</td>
<td>Departmental Approval</td>
<td>Description</td>
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<tr>
<td>ISM 7422</td>
<td>Business Applications or Artificial Intelligence and Expert Systems</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: Departmental Approval.</td>
<td>Theory, concepts, methodologies, current trends, potential, interrelationships of artificial intelligence, expert systems, and decision process.</td>
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<tr>
<td>ISM 7441C</td>
<td>Computer-Based Applications in Operations Management</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: Departmental Approval.</td>
<td>Introduction to applications of computer technology in manufacturing and operations management. Focus on the design and implementation of applications to support the operations manager.</td>
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<tr>
<td>ISM 7905</td>
<td>Independent Study</td>
<td>1-6</td>
<td>BA</td>
<td>QMB PR: CC. S/U.</td>
<td>Independent study in which student must have a contract with an instructor.</td>
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<tr>
<td>ISM 7910</td>
<td>MIS Research Seminar I</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: Departmental Approval.</td>
<td>Introduction to the MIS literature as it has developed over the past 30 years. Primary focus on the research literature. Other important writings will also be covered.</td>
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<tr>
<td>ISM 7911</td>
<td>MIS Research Seminar II</td>
<td>3</td>
<td>BA</td>
<td>QMB PR:ISM7910 ISM 7910.</td>
<td>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.</td>
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<tr>
<td>ISM 7912</td>
<td>Seminar on Behavioral IS Research</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: ISM 7910</td>
<td>This course is team taught by IS/DS faculty with research interests in behavioral and organizational fields. The seminar structure of the course allows flexibility of current research topics and opportunities for significant student faculty interaction. Students will achieve a broad understanding of the research areas and methods associated with behavioral and organizational IS research.</td>
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<tr>
<td>ISM 7930</td>
<td>Selected Topics in MIS</td>
<td>1-3</td>
<td>BA</td>
<td>QMB PR: CC.</td>
<td></td>
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<tr>
<td>ISM 7931</td>
<td>Directed Research</td>
<td>1-6</td>
<td>BA</td>
<td>QMB PR: Ph.D. level, CC. S/U.</td>
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<tr>
<td>ISM 7980</td>
<td>Dissertation</td>
<td>2-21</td>
<td>BA</td>
<td>QMB PR: CC.</td>
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<tr>
<td>ISS 5934</td>
<td>Selected Topics</td>
<td>1-3</td>
<td>AS</td>
<td>AFA PR: CI plus senior standing or graduate status.</td>
<td>Interdisciplinary studies with course content dependent on student demand and instructor's interest.</td>
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<tr>
<td>ISS 6184</td>
<td>Development</td>
<td>3</td>
<td>AS</td>
<td>ISS</td>
<td>Overviews the ethical problems of</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Course Description</td>
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<tr>
<td>ISS 6900</td>
<td>Directed Reading</td>
<td>1-3</td>
<td>ISS</td>
<td>PR: CI and GS or senior standing.</td>
<td>A supervised program of intensive reading of interdisciplinary materials of specific interest.</td>
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<tr>
<td>ISS 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>ISS</td>
<td></td>
<td>A supervised program of intensive reading of interdisciplinary materials of specific interest.</td>
<td></td>
</tr>
<tr>
<td>ISS 6934</td>
<td>Selected Topics</td>
<td>1-3</td>
<td>ISS</td>
<td>PR: CI and senior standing or GS.</td>
<td>Interdisciplinary studies with course content dependent on student demand and instructor's interest. Rpt. As topics vary.</td>
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</tr>
<tr>
<td>ITW 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>WLE</td>
<td>PR: GR. ML. S/U.</td>
<td>Selected topics in Italian literature.</td>
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<tr>
<td>JOU 5105</td>
<td>Newswriting and Editing</td>
<td>3</td>
<td>COM</td>
<td>PR: GS in Mass Communication s or CI.</td>
<td>Introduction to the basics of gathering, writing, and editing the news, with an emphasis on practical assignments done under professional conditions and standards. Discussions, readings emphasize the larger context and implications of news.</td>
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<tr>
<td>JOU 5305</td>
<td>Explorations in Newswriting</td>
<td>3</td>
<td>COM</td>
<td>PR: CC.</td>
<td>Students work to develop writing styles, reporting on and creating stories about significant issues, events, and ideas. The course explores the notion that narrative-style journalism can be accurate, thorough, fair, and compelling, effectively bringing readers into stories and giving them a bigger stake in the news. The focus is ongoing beyond traditional practices of reporting and writing news stories.</td>
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<tr>
<td>JOU 6107</td>
<td>News Coverage of Public Life</td>
<td>3</td>
<td>COM</td>
<td>PR: CC.</td>
<td>Problems and methods of reporting urban affairs, including municipal government, and politics: city, county, and state. Research/analyses of current issues.</td>
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<tr>
<td>JOU 6122</td>
<td>Reporting: Methods and Perspectives</td>
<td>3</td>
<td>COM</td>
<td>PR: CC.</td>
<td>Instruction and practice in computer-assisted reporting, social science research, interviewing, data-document research, observational techniques, and other methods of news gathering.</td>
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<tr>
<td>JOU 6191</td>
<td>Seminar: Contemporary Issues in</td>
<td>3</td>
<td>COM</td>
<td>PR: CC.</td>
<td>A study of the role of the free press in a democratic society and its efforts to fulfill its social and ethical</td>
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<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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<td>LAE</td>
<td>Young Adult and World Literature for New Teachers</td>
<td>3</td>
<td>ED EDI</td>
<td>PR: Teaching position w/either English degree or 30 hrs of Undergraduate English</td>
<td>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.</td>
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<tr>
<td>LAE</td>
<td>Selected Topics in the Teaching of English</td>
<td>3</td>
<td>ED EDT</td>
<td>PR: Certification in English and/or Mass Communication and approval of graduate advisor.</td>
<td>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.</td>
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<tr>
<td>LAE</td>
<td>Language Learning in Childhood</td>
<td>3</td>
<td>ED EDE</td>
<td></td>
<td>Research used to assess the language behavior of normal children and application of selected research methodology to understanding linguistic behavior of children.</td>
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<tr>
<td>LAE</td>
<td>Writing and Writers: Trends &amp; Issues</td>
<td>3</td>
<td>ED EDE</td>
<td></td>
<td>The purpose of this course is to examine writing as a developing symbol system that is embedded in social and cultural contexts. Students will develop instructional strategies to facilitate children's writing development, as well as develop individual strategies for composing personal and professional texts.</td>
<td></td>
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<tr>
<td>LAE</td>
<td>Trends in Literature in a Diverse Society</td>
<td>3</td>
<td>ED EDE</td>
<td></td>
<td>Focuses on the examination of historical and contemporary multicultural children's literature in order to help teachers and students gain a pluralistic perspective of society. Instructional programs are designed to lead school-age children to a broader understanding, respect, and appreciation of all persons representing various cultural, ethnic, and societal groups.</td>
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<tr>
<td>LAE</td>
<td>Methods of Teaching Middle School</td>
<td>4</td>
<td>ED EDI</td>
<td></td>
<td>Balanced literacy methods for integrating reading, writing, speaking, listening, viewing, and critical thinking activities into a</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Type</td>
<td>Department</td>
<td>Prerequisites and Notes</td>
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<tr>
<td>LAE 6339</td>
<td>Methods of Teaching Secondary English Language Arts</td>
<td>4</td>
<td>ED</td>
<td>EDI</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>LAE 6345</td>
<td>Teaching Written Composition</td>
<td>3</td>
<td>ED</td>
<td>EDT</td>
<td>Techniques for motivating, guiding, correcting, and evaluating student writing.</td>
<td></td>
</tr>
<tr>
<td>LAE 6366</td>
<td>New Perspectives on the Teaching of Young Adult Literature in Middle &amp; Secondary Schools</td>
<td>3</td>
<td>ED</td>
<td>EDT</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>LAE 6374</td>
<td>Practice in Teaching Grammar</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>Demonstrates techniques incorporating instruction of essential elements of English grammar/mechanics into composition courses. Pedagogy is essential for teachers in secondary schools, community colleges, or advanced composition at the university level.</td>
<td></td>
</tr>
<tr>
<td>LAE 6375</td>
<td>Contemporary Composition Studies</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>Examines the important research and theory in contemporary position pedagogy.</td>
<td></td>
</tr>
<tr>
<td>LAE 6389</td>
<td>Practice in Teaching Literature</td>
<td>1-3</td>
<td>AS</td>
<td>ENG</td>
<td>A course that allows the prospective college English teacher to experiment with teaching techniques that will determine the most effective ways to teach literature and teach college English teachers the variety and importance of literary techniques and their relevance to various subject matters.</td>
<td></td>
</tr>
<tr>
<td>LAE 6392</td>
<td>Practice in Teaching Composition</td>
<td>3</td>
<td>AS</td>
<td>ENG</td>
<td>In semester I required of and open only to Teaching Assistants new to USF's Freshman English program. Gives practical guidance in preparing to teach composition.</td>
<td></td>
</tr>
<tr>
<td>LAE 6415</td>
<td>Literature And The Learner</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
<td>Nature, scope, and uses of literature for instructional, information, and recreational purposes and implications of current theory.</td>
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<tr>
<td>CRN</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Notes</td>
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<tr>
<td>LAE 6616</td>
<td>Trends in Language Arts Instruction</td>
<td>3 ED</td>
<td>EDE</td>
<td>PR: LAE 4314 or equivalent or DPR</td>
<td></td>
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<tr>
<td></td>
<td>Significant research, and issues in literature study as they relate to the learner.</td>
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<tr>
<td>LAE 6637</td>
<td>Current Trends in Secondary English Education</td>
<td>3 ED</td>
<td>EDT</td>
<td>PR: LAE 4335 or LAE 4642 or Certification in English or Mass Communications.</td>
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<tr>
<td></td>
<td>Curricular patterns and instructional practices in secondary English.</td>
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<tr>
<td>LAE 6644</td>
<td>Current Teaching of the English Language and the Study of Traditional Grammar</td>
<td>3 ED</td>
<td>EDT</td>
<td>PR: Certification in English or Mass Communications.</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Applications of recent techniques of language study to classroom teaching of English, especially in relation to the teaching of grammar. Presents an interactive approach to grammar instruction in which students learn the basic elements of English grammar and engaging classroom activities for teaching grammar in the schools. Fulfills the grammar course requirement for teacher certification in English.</td>
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<tr>
<td>LAE 6861</td>
<td>American and British Literature with Technology</td>
<td>3 ED</td>
<td>EDI</td>
<td>PR: EDG 6947.</td>
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<td></td>
<td>A study of five sections of literature: 1) British Literature before Shakespeare, 2) British Literature after Shakespeare to 1740, 3) British Literature 1740-1900, 4) American Literature before 1900, and 5) Twentieth Century British and American Literature (1890 to the Present) while developing an individual's skill with technology.</td>
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<tr>
<td>LAE 6906</td>
<td>Independent Study in English Education</td>
<td>1-6 ED</td>
<td>EDT</td>
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<tr>
<td></td>
<td>This course permits a student to explore a topic of interest in depth under the direction and supervision of a faculty member.</td>
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<tr>
<td>LAE 6947</td>
<td>Internship</td>
<td>6 ED</td>
<td>EDI</td>
<td>Cl.</td>
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<td></td>
<td>Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: Cl)</td>
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<tr>
<td>LAE 6971</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19 ED</td>
<td>EDT</td>
<td>S/U.</td>
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<td></td>
<td>Apprenticed, closely supervised study of and practice in teaching of</td>
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<tr>
<td>LAE 7376</td>
<td>Problems in Advanced</td>
<td>3 AS</td>
<td>ENG</td>
<td>PR: Admission to the Ph.D.</td>
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<tr>
<td>Code</td>
<td>Course Title</td>
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<tr>
<td>LAE 7390</td>
<td>Problems in Advanced English Instruction and Scholarly Research</td>
<td>3</td>
<td>AS ENG</td>
<td>PR: Ph.D. Candidacy.</td>
<td></td>
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</tr>
<tr>
<td>LAE 7717</td>
<td>Theories And Patterns Of Advanced Language Arts Instruction</td>
<td>3</td>
<td>ED EDE</td>
<td>PR: LAE 6616 or equiv.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAE 7747</td>
<td>Literature Program Design</td>
<td>3</td>
<td>ED EDE</td>
<td>PR: EDF 6481, LAE 6415, or LAE 6336 or DPR.</td>
<td></td>
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<tr>
<td>LAE 7910</td>
<td>Directed Research in English Education</td>
<td>1-19</td>
<td>ED EDT</td>
<td>PR: CI.</td>
<td></td>
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<tr>
<td>LAE 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED EDI</td>
<td>PR: Admission to Candidacy</td>
<td></td>
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<tr>
<td>LAS 6936</td>
<td>Core Seminar in Latin American, Caribbean and Latino</td>
<td>3</td>
<td>AS INT</td>
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<tr>
<td>LIN 5700</td>
<td>Applied Linguistics</td>
<td>3</td>
<td>AS WLE</td>
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<tr>
<td>LIN 6018</td>
<td>Topics in Theoretical Linguistics</td>
<td>3</td>
<td>AS WLE</td>
<td>Offerings will include current issues in any area of linguistic theory.</td>
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<tr>
<td>LIN 6081</td>
<td>Introduction to Graduate Study in Linguistics</td>
<td>3</td>
<td>AS WLE</td>
<td>Required of all M.A. candidates.</td>
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<tr>
<td></td>
<td>English Instruction of Composition</td>
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<td>college and university advanced composition. Student may elect to work with nonfiction, fiction, or poetry.</td>
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<td>This course provides closely supervised training in upper-level college English instruction and experience with professional research. Experience in lecture, seminar discussion, examinations, evaluation, conferences, directing undergraduate research, course development, use of secondary materials, publication procedure, and collation.</td>
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<td>New research findings and theories relating to language patterns and contemporary programs for teaching language arts.</td>
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<td>Investigation and analysis of the research in literature instruction and the application of the findings to the development of literature programs.</td>
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<td>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.</td>
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<td>Rpt. S/U</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>Offerings</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>LIN 6117</td>
<td>History of Linguistic Thought</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: CC. Survey of the development of language study in the West from Antiquity to the present. Classical and medieval theories of language; origins of traditional grammar; rationalist linguistic theory and philosophical grammar, and an examination of the origin of contemporary linguistic controversies.</td>
<td></td>
</tr>
<tr>
<td>LIN 6129</td>
<td>Studies in English Language and Linguistics</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>An advanced study of the origin, historical development and contemporary structure of British and American English in its social and cultural milieu, with emphasis upon modern techniques for linguistic analysis and description.</td>
<td></td>
</tr>
<tr>
<td>LIN 6322</td>
<td>Phonological Description</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: LIN 6520, or CI. Analysis of the phonological component of a grammar, its role and formal structures. The generative model is compared to taxonomic descriptions. Theory and data-solution problems.</td>
<td></td>
</tr>
<tr>
<td>LIN 6351</td>
<td>The Sound System of English</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: LIN 5700 or EQ. Training in applied phonetic transcription of American English speech; analysis and description of major phonological processes and dialect features of American English, with practice in teaching pronunciation.</td>
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<tr>
<td>LIN 6571</td>
<td>The Structure of a Specific Language</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Analysis of the linguistic structures of both common and uncommon languages.</td>
<td></td>
</tr>
<tr>
<td>LIN 6601</td>
<td>Sociolinguistics</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Detailed analysis of the phenomenon of language variation with emphasis upon the research methodology of sociolinguistics and the implications of its findings for current linguistic theory.</td>
<td></td>
</tr>
<tr>
<td>LIN 6675</td>
<td>The Grammatical Structure of American English</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: LIN 5700 or EQ. Analysis and description of major morphological and syntactic structures of American English, with emphasis upon applied linguistics.</td>
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<tr>
<td>LIN 6715</td>
<td>Language Acquisition</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: LIN 3010, LIN 4377 or CI. A survey of current research and theory in the processes of normal language acquisition and development.</td>
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</tr>
<tr>
<td>LIN 6720</td>
<td>Second Language Acquisition</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: LIN 6715 or EQ. Neurolinguistic, psycholinguistic, and sociolinguistic bases of second language acquisition by both</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Grade</td>
<td>Department</td>
<td>Description</td>
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<tr>
<td>LIN 6722</td>
<td>Writing Processes in Second Languages Acquisition</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>A survey of current theory and research in second language writing development and instruction, with emphasis upon second language writing in academic settings. May be taken as an elective by students in the Ph.D. program in Second Language Acquisition and Instructional Technology or the M.A. program in Applied Linguistics.</td>
<td></td>
</tr>
<tr>
<td>LIN 6748</td>
<td>Contrastive Analysis</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Comparison and contrast of the structures of American English with corresponding structures in selected foreign languages. EA and IA added for contrast with CA.</td>
<td></td>
</tr>
<tr>
<td>LIN 6908</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>WLE</td>
<td>PR: CC. S/U.</td>
<td></td>
</tr>
<tr>
<td>LIN 6910</td>
<td>Directed Research</td>
<td>1-10</td>
<td>AS</td>
<td>WLE</td>
<td>PR: GR. ML, CC. S/U.</td>
<td></td>
</tr>
<tr>
<td>LIN 6932</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>AS</td>
<td>WLE</td>
<td>PR: CC.</td>
<td></td>
</tr>
<tr>
<td>LIN 6940</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>AS</td>
<td>WLE</td>
<td>S/U only.</td>
<td></td>
</tr>
<tr>
<td>LIN 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>WLE</td>
<td>S/U.</td>
<td></td>
</tr>
<tr>
<td>LIS 5020</td>
<td>Foundations of Library and Information Science</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Introduction to the study of library and information science, history; organization; specialized literature; outstanding leaders; current trends, issues, and problems; the place of the information agency in society with its contributions to that society.</td>
<td></td>
</tr>
<tr>
<td>LIS 5268</td>
<td>Microcomputer Applications Library and Information Centers</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Microcomputer hardware and software for libraries and their application in library/information settings. Projects using major applications for budgets, databases, and telecommunications are undertaken.</td>
<td></td>
</tr>
<tr>
<td>LIS 5315</td>
<td>Instructional Graphics</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Theoretical aspects, planning and production of instructional graphic material. The theory of graphic communications. Interpreting needs for instructional materials appropriate for given behavioral objectives.</td>
<td></td>
</tr>
<tr>
<td>LIS 5333</td>
<td>TV in Schools and</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Small format video tape recordings and the utilization of open and closed systems.</td>
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</table>

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Units</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>LIS 5937</td>
<td>Selected Topics in Library Studies</td>
<td>1-4</td>
<td>AS</td>
<td>LIS</td>
<td></td>
<td>Covers a variety of topics in such areas as collection development, reference services, technical services, and administration.</td>
</tr>
<tr>
<td>LIS 6110</td>
<td>History of Libraries</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td></td>
<td>Development of libraries as found from the earliest records to the great libraries of modern times, and the library as a social institution.</td>
</tr>
<tr>
<td>LIS 6111</td>
<td>History of Children's Literature</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td></td>
<td>Historical bibliographical survey of imaginative and information literature for children.</td>
</tr>
<tr>
<td>LIS 6206</td>
<td>Adult Services in Libraries</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: LIS 6511 or CI</td>
<td>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.</td>
</tr>
<tr>
<td>LIS 6212</td>
<td>Reading Guidance Programs in Libraries and Classrooms</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td></td>
<td>Working with factors and forces influencing reading habits of children and youth; programs for teaching investigative and library skills materials and methods for guidance of reading, listening, and viewing.</td>
</tr>
<tr>
<td>LIS 6225</td>
<td>Storytelling</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: LIS 6585 or CI</td>
<td>Building storytelling programs for school and public libraries or other educational institutions. Analysis of historical aspects, materials suitable for use and audience reaction.</td>
</tr>
<tr>
<td>LIS 6260</td>
<td>Information Science in Librarianship</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td></td>
<td>Historical overview of the emergence of information science as a discipline. The fundamental concepts of information retrieval systems and subsystems, related information technologies, including indexing and abstracting, and their applications to the field of librarianship.</td>
</tr>
<tr>
<td>LIS 6271</td>
<td>Research Methods in Library and Information Science</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: LIS 5020, LIS 6603, and LIS 6725 or LIS 6735.</td>
<td>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.</td>
</tr>
<tr>
<td>LIS 6303</td>
<td>Preparing Instructional Media</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td></td>
<td>Fundamentals of preparing and using audiovisuals as they relate to the communication process.</td>
</tr>
<tr>
<td>LIS 6402</td>
<td>Advanced Library Administration</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td></td>
<td>Applications of staff management principles to library situations. Includes staff roles in current and future operations, application of library performance measures to function in a library setting.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Required Credits</td>
<td>Program</td>
<td>Description</td>
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<tr>
<td>LIS 6409</td>
<td>Introduction to Library Administration</td>
<td>3</td>
<td>AS LIS</td>
<td></td>
<td>Behavioral approach to libraries as organizations; administrative principles, theories, and problems of all types of libraries; methods of administration; use of case studies, role plays, and in-basket exercises.</td>
<td></td>
</tr>
<tr>
<td>LIS 6432</td>
<td>Seminar in Academic Libraries</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6409 or CC.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>LIS 6445</td>
<td>Seminar in Public Libraries</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6409 or CC.</td>
<td>Critical examination of public and institutional library administration, services, resources, and facilities at the municipal, county, and regional levels. Role of state and federal governments in library development.</td>
<td></td>
</tr>
<tr>
<td>LIS 6455</td>
<td>Organization and Administration of the School Media Center</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6409 or CC.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>LIS 6463</td>
<td>Library Networks and Systems</td>
<td>3</td>
<td>AS LIS</td>
<td></td>
<td>Development of library networks at the local, state, regional, and national levels with consideration of organization, administration, services, funding, and legislation.</td>
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<tr>
<td>LIS 6464</td>
<td>Library Systems Analysis and Planning</td>
<td>3</td>
<td>AS LIS</td>
<td></td>
<td>Application of systems planning and data processing technology to library files. Emphasis on analysis of selected library subsystems.</td>
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<tr>
<td>LIS 6472</td>
<td>Seminar in Special Libraries</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6409 or CC.</td>
<td>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.</td>
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</tr>
<tr>
<td>LIS 6473</td>
<td>Law Librarianship</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6260, LIS 6409, LIS 6603, LIS 6735, or CC.</td>
<td>All aspects of law librarianship, including administration, acquisition, organization, and use of information resources for persons in the health fields. Field trip may be required.</td>
<td></td>
</tr>
<tr>
<td>LIS 6475</td>
<td>Health Sciences</td>
<td>3</td>
<td>AS LIS</td>
<td>PR: LIS 6260, LIS 6409, LIS 6475</td>
<td>All aspects of health science librarianship, including</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<td>Prerequisite</td>
<td>Description</td>
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<tr>
<td>LIS 6511</td>
<td>Collection Development and Maintenance</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Developmental approach to building library collections of both print and non-print materials. Emphasis upon evaluation, selection, and acquisition of library materials as they uphold the objectives of the institutions for which they are selected and acquired.</td>
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<tr>
<td>LIS 6542</td>
<td>The Curriculum and Instructional Technology</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Effective utilization of instructional materials as they relate to specific areas of curriculum in elementary and high school programs.</td>
<td></td>
</tr>
<tr>
<td>LIS 6565</td>
<td>Books and Related Materials for Young Adults</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>LIS 6585</td>
<td>Materials for Children</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Examination of materials for all institutions in which children are served: school media centers, public libraries, kindergartens, etc. Stress on selection aids, reviewing techniques, utilizations.</td>
<td></td>
</tr>
<tr>
<td>LIS 6603</td>
<td>Basic Information Sources and Services</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>An examination of the basic sources of information in the general library; of bibliographical control of all communication media, with emphasis on those tools of most value to general reference services.</td>
<td></td>
</tr>
<tr>
<td>LIS 6609</td>
<td>Online Information Sources and Services</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Principles of online searching and characteristics of machine-readable bibliographic data bases. Includes two credit hours of laboratory providing hands-on research experience.</td>
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<tr>
<td>LIS 6610</td>
<td>Information Sources and Services in the Humanities</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Consideration of the bibliographical and reference materials in the humanities with training and practice in their use for solving problems in the reference service.</td>
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<tr>
<td>LIS 6620</td>
<td>Information Sources and Services in</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Consideration of the bibliographical and reference materials in the social sciences with training and practice in</td>
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<td>Course Code</td>
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<td>Credits</td>
<td>Type</td>
<td>Institutions</td>
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<tr>
<td>LIS 6624</td>
<td>Information Sources and Services in Business and Law</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: LIS 6603 or CI. 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.</td>
<td></td>
</tr>
<tr>
<td>LIS 6630</td>
<td>Information Sources and Services in Science and Technology</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: LIS 6603 or CC. Study of representative reference sources in pure and applied sciences with equal attention given to typical problems encountered in scientific and technological reference service.</td>
<td></td>
</tr>
<tr>
<td>LIS 6661</td>
<td>Government Documents</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>The nature of state, federal, United Nations, and international documents, their reference and research value; the techniques of acquisition, organization, and reference use.</td>
<td></td>
</tr>
<tr>
<td>LIS 6724</td>
<td>Classification and Cataloging of Non-Book Materials</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: LIS 6735 or CC. Principles and practices in cataloging and organizing non-book materials.</td>
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<tr>
<td>LIS 6725</td>
<td>Organization of Knowledge I</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Principles of the organization of knowledge emphasizing descriptive cataloging, including the MARC format, the use of LSCSH and the Library of Congress classification, and searching the OCLC Online Union Catalog.</td>
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<tr>
<td>LIS 6726C</td>
<td>Indexing and Abstracting</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: LIS 6725 or LIS 6735. Principles and procedures for indexing and abstracting products of human knowledge in various formats, including vocabulary control, thesaurus construction, classification, and coding in manual, automated, and intelligent systems.</td>
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<tr>
<td>LIS 6735</td>
<td>Technical Services in Small Libraries</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>Covers aspects of technical services including acquisitions, cataloging, and circulation systems as they relate to school media centers, small public libraries, and information centers. Automation is emphasized in all aspects of the course.</td>
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<tr>
<td>LIS 6745</td>
<td>Organization of Knowledge II</td>
<td>3</td>
<td>AS</td>
<td>LIS</td>
<td>PR: LIS 6725. 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.</td>
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<td>Course Code</td>
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<td>Department</td>
<td>Academic Year</td>
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<tr>
<td>LIS 6906</td>
<td>Independent Study</td>
<td>1-4</td>
<td>LIS</td>
<td></td>
<td>PR: 20 hours in program and consent of advisor. S/U.</td>
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<tr>
<td>LIS 6946</td>
<td>Supervised Field Work</td>
<td>3</td>
<td>LIS</td>
<td></td>
<td>PR: CC. Supervised experience in an approved cooperating library. Includes practice work, seminar sessions and individual conferences, a progress report, and a final report on the field experience.</td>
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<tr>
<td>LIT 6096</td>
<td>Studies in Contemporary Literature</td>
<td>3</td>
<td>ENG</td>
<td></td>
<td>Drama, poetry, fiction, and literary criticism; authors to be studied include Ionesco, Thomas, Miller, T. Williams, Beckett, Camus, Burgess, Morrison, and Walker.</td>
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<tr>
<td>LIT 6105</td>
<td>Studies in Continental Literature</td>
<td>3</td>
<td>ENG</td>
<td></td>
<td>General areas include the Renaissance, the Enlightenment, the Novel in Europe, the Romantic Movement on the Continent, and Classical Comedy.</td>
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<tr>
<td>LIT 6934</td>
<td>Selected Topics in English Studies</td>
<td>3</td>
<td>ENG</td>
<td></td>
<td>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.</td>
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<tr>
<td>LNW 5900</td>
<td>Directed Reading</td>
<td>1-4</td>
<td>WLE</td>
<td></td>
<td>Departmental approval required. S/U.</td>
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</tr>
<tr>
<td>LNW 5934</td>
<td>Selected Topics</td>
<td>4</td>
<td>WLE</td>
<td></td>
<td>Study of an author, movement, or theme.</td>
<td></td>
</tr>
<tr>
<td>LNW 6505</td>
<td>Roman Philosophy</td>
<td>3</td>
<td>WLE</td>
<td></td>
<td>Readings in the philosophic writings of Cicero, Seneca, and Lucretius, together with an examination of Stoic, Epicurean, and Eclectic thought.</td>
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<tr>
<td>LNW 6655</td>
<td>Horace</td>
<td>3</td>
<td>WLE</td>
<td></td>
<td>Readings in the Odes and Epodes of Horace; study of the Ode's tradition.</td>
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<tr>
<td>LNW 6665</td>
<td>Vergil</td>
<td>3</td>
<td>WLE</td>
<td></td>
<td>Readings in the Aeneid, the Eclogues, and the Georgies.</td>
<td></td>
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<tr>
<td>LNW 6910</td>
<td>Supervised Research</td>
<td>3</td>
<td>WLE</td>
<td></td>
<td>PR: CC.</td>
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<tr>
<td>LNW 6940</td>
<td>Supervised Teaching</td>
<td>3</td>
<td>WLE</td>
<td></td>
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<tr>
<td>MA A 5306</td>
<td>Real Analysis I</td>
<td>3</td>
<td>MTH</td>
<td>PR: MAA 4211.</td>
<td>Riemann-Stieltjes integrals, uniform convergence, Fourier series, Lebesgue measure and integration on R.</td>
<td></td>
</tr>
<tr>
<td>MA 5405</td>
<td>Applied</td>
<td>3</td>
<td>MTH</td>
<td>PR: CI.</td>
<td>Complex numbers, analytic and</td>
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<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>MA 6406</td>
<td>Complex Analysis I</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MAA 5405 or CI.</td>
<td></td>
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</tr>
<tr>
<td>MA 6407</td>
<td>Complex Analysis II</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MAA 6406 or CI.</td>
<td></td>
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</tr>
<tr>
<td>MA 6506</td>
<td>Functional Analysis I</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MAA 5307, MAS 5107 or CI.</td>
<td></td>
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<tr>
<td>MA 6507</td>
<td>Functional Analysis II</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MAA 6506.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA 6616</td>
<td>Abstract Integration</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MAA 5307 or CI.</td>
<td></td>
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</tr>
<tr>
<td>MA 5101</td>
<td>LISP: Programming With Algebraic Applications</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MHF 5306 or MAD 6510 or MAS 5311 or CI.</td>
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<tr>
<td>MA 5305</td>
<td>Graph Theory</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MAS 3105 or CI.</td>
<td></td>
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<tr>
<td>MA 6206</td>
<td>Combinatorics I</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MAS 3105 and MAS 4301 or CI.</td>
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<tr>
<td>MA 6207</td>
<td>Combinatorics II</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MAS 5311 and MAD 6206 or CI.</td>
<td></td>
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<tr>
<td>MA 6510</td>
<td>Analysis of Algorithms</td>
<td>4</td>
<td>AS MTH</td>
<td>PR: MAS 4301 or CI.</td>
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<tr>
<td>CODE</td>
<td>CREDIT</td>
<td>COURSE TITLE</td>
<td>PREREQUISITES</td>
<td>COURSE DESCRIPTION</td>
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<tr>
<td>MAE</td>
<td>5875</td>
<td>Algebraic Coding Theory</td>
<td>AS MTH</td>
<td>Linear block codes over an arbitrary finite field: Hamming, Golay, BCH, quadratic residue, Reed-Muller, and MDS codes, the MacWilliams identity, bounds on minimum distance, and relationship to design theory.</td>
<td></td>
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<tr>
<td>MAE</td>
<td>6115</td>
<td>Abstract Algebra for Teachers</td>
<td>AS MTH</td>
<td>Groups, fields, vector spaces as they relate to high school algebra and geometry.</td>
<td></td>
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</tr>
<tr>
<td>MAE</td>
<td>6117</td>
<td>Current Trends in Elementary Mathematics</td>
<td>ED EDE</td>
<td>Philosophy, content, and process of mathematics instruction in elementary school programs.</td>
<td></td>
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</tr>
<tr>
<td>MAE</td>
<td>6134</td>
<td>Current Trends in Middle Grades Mathematics</td>
<td>ED EDO</td>
<td>This course examines current trends and issues in middle grades mathematics. It familiarizes teachers with new developments in this field with a focus on curriculum issues and issues arising from state, national, and international assessments.</td>
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</tr>
<tr>
<td>MAE</td>
<td>6137</td>
<td>Probability and Statistics for Middle Grades Teachers</td>
<td>ED EDO</td>
<td>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.</td>
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<td>Course Code</td>
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<td>Credits</td>
<td>Department</td>
<td>ED</td>
<td>EDO</td>
<td>PR:</td>
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<tr>
<td>MAE 6166</td>
<td>Communicating Skills in Mathematics</td>
<td>3</td>
<td>EDO</td>
<td></td>
<td></td>
<td>Admission into the MAT in Middle Grades Mathematics or CI.</td>
</tr>
<tr>
<td>MAE 6332</td>
<td>Advanced Math Topics - Middle Grades Teachers</td>
<td>3</td>
<td>EDO</td>
<td></td>
<td></td>
<td>Admission into the MAT in Middle Grades Mathematics or CI. Completion of MAE 6173, MAE 6333, MAE 6334, and MAE 6335.</td>
</tr>
<tr>
<td>MAE 6333</td>
<td>Algebra for Middle Grades Teachers</td>
<td>3</td>
<td>EDO</td>
<td></td>
<td></td>
<td>Admission into the MAT in Middle Grades Mathematics or CI. Completion of MAE 6137, MAE 6333, MAE 6334 and MAE 6335.</td>
</tr>
<tr>
<td>MAE 6334</td>
<td>Geometry and Measurement for Middle Grades Teachers</td>
<td>3</td>
<td>EDO</td>
<td></td>
<td></td>
<td>Admission into the MAT in Middle Grades Mathematics or CI.</td>
</tr>
<tr>
<td>MAE 6335</td>
<td>Number Theory for Middle Grades Teachers</td>
<td>3</td>
<td>EDO</td>
<td></td>
<td></td>
<td>Admission into the MAT in Middle Grades Mathematics or CI.</td>
</tr>
<tr>
<td>MAE 6337</td>
<td>Topics in Teaching Algebra</td>
<td>1–4</td>
<td>EDO</td>
<td></td>
<td></td>
<td>Undergraduate degree in mathematics or certification in secondary school mathematics</td>
</tr>
<tr>
<td>MAE 6338</td>
<td>Topics in Teaching Geometry</td>
<td>1–4</td>
<td>EDO</td>
<td></td>
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<td>Undergraduate degree in mathematics or certification in secondary</td>
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<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Course Description</td>
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<tr>
<td>MAE 6356</td>
<td>Teaching of Pre-Secondary School Mathematics</td>
<td>3</td>
<td>ED</td>
<td>EDO</td>
<td>PR: 12 hours of mathematics. DPR.</td>
<td>Development of strategies and materials for teaching mathematical concepts and skills appropriate to pre-secondary school years.</td>
</tr>
<tr>
<td>MAE 6549</td>
<td>Advanced Practicum in Diagnosis and Treatment of Learning Disabilities in School Mathematics</td>
<td>1-6</td>
<td>ED</td>
<td>EDO</td>
<td>PR: MAE 6516</td>
<td>Supervised conduct of a case study with a student experiencing learning difficulties in mathematics. Procedures and reporting practices developed in MAE 6516 reviewed and extended.</td>
</tr>
<tr>
<td>MAE 6899</td>
<td>Internship Seminar in Mathematics Education</td>
<td>3</td>
<td>ED</td>
<td>EDO</td>
<td>PR: Admission into a graduate initial certification program in mathematics education. CR: MAE 6947, Graduate Internship: Mathematics Education.</td>
<td>This seminar accompanies the graduate internship in mathematics education and provides teacher candidates an opportunity to interact with peers and university faculty regarding classroom experiences.</td>
</tr>
<tr>
<td>MAE 6906</td>
<td>Independent Study in Mathematics Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDO</td>
<td></td>
<td>This course permits a student to explore a topic of interest in depth under the direction and supervision of a faculty member.</td>
</tr>
<tr>
<td>MAE 6945</td>
<td>Practicum in Mathematics Education</td>
<td>3</td>
<td>ED</td>
<td>EDO</td>
<td>PR: Admission into a graduate initial certification program in mathematics education.</td>
<td>This practicum provides individuals in the MAT program in mathematics education with early field experiences in mathematics classrooms at the middle or high school levels, depending on the program of study.</td>
</tr>
<tr>
<td>MAE 6947</td>
<td>Internship</td>
<td>6</td>
<td>ED</td>
<td>EDI</td>
<td>PR: CI.</td>
<td>Provides students with an extended school-based experience, under the guidance of a cooperating teacher and university supervisor, for a full semester at or near the end of their graduate program. Open to graduate degree candidates only. S/U (PR: CI)</td>
</tr>
<tr>
<td>MAE 6971</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19</td>
<td>ED</td>
<td>EDO</td>
<td>S/U.</td>
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</tr>
<tr>
<td>MAE 7138</td>
<td>Assessment in Mathematics Education</td>
<td>3</td>
<td>ED</td>
<td>EDO</td>
<td>PR: Admission to the Ph.D. Program with emphasis in</td>
<td>This course discusses issues related to assessment in mathematics education at all levels, including state, national, and international</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Program</td>
<td>Course Description</td>
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<tr>
<td>MAE 7146</td>
<td>Curriculum History/Research Mathematics Education</td>
<td>3</td>
<td>ED</td>
<td>EDO</td>
<td>This course surveys curriculum history in mathematics education, discusses current research on mathematics education curricula, and explores issues related to conducting research on curriculum in this field.</td>
<td></td>
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<tr>
<td>MAE 7655</td>
<td>Technology Issues in Mathematics Education</td>
<td>3</td>
<td>ED</td>
<td>EDO</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MAE 7794</td>
<td>Preparing Teachers of Mathematics, K-12</td>
<td>3</td>
<td>ED</td>
<td>EDO</td>
<td>This course focuses on analyzing and examining the research in mathematics teaching and teacher education as it relates to the initial preparation of teachers of mathematics and to the professional development of practicing teachers of mathematics.</td>
<td></td>
</tr>
<tr>
<td>MAE 7796</td>
<td>Research Issues in Mathematics Education</td>
<td>3</td>
<td>ED</td>
<td>EDO</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MAE 7910</td>
<td>Directed Research in Mathematics Education</td>
<td>1-19</td>
<td>ED</td>
<td>EDO</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MAE 7945</td>
<td>Practicum in Mathematics Education</td>
<td>3</td>
<td>ED</td>
<td>EDO</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MAE 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDO</td>
<td>PR: Admission to Candidacy.</td>
<td></td>
</tr>
</tbody>
</table>
| MAE 6053    | Politics and Control in Organizations                                        | 3       | BA         | MAN     | PR: GS. Course explores politics and control at the individual, small group, and organizational levels. Students will also explore the power relationships between organizations and the larger political/economic systems of which
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Degree</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6055</td>
<td>Human Behavior and Organization</td>
<td>3</td>
<td>BA, MBA</td>
<td>PR: GS.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6107</td>
<td>Leadership Perspective</td>
<td>3</td>
<td>BA, MAN</td>
<td></td>
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<tr>
<td></td>
<td>Examines the perspective required of the manager/leader/facilitator in light of personal, organizational, and societal needs judged by standards of effectiveness and ethicalness.</td>
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</tr>
<tr>
<td>MAN 6116</td>
<td>Managing Diversity</td>
<td>3</td>
<td>BA, MAN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course deals with questions, dimensions of style and structure, problems and paradigms of solutions that have come out of management experience of a changing workforce during the past twenty years. Emerging styles of leadership among people of diverse cultural backgrounds will be explored as solutions, not as problems.</td>
<td></td>
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<tr>
<td>MAN 6122</td>
<td>Leadership and Teams</td>
<td>3</td>
<td>BA, MAN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exploration, analysis and application of leadership theory, research concepts and skills in teams and organizations. Course provides insights into opportunities and challenges faced by leaders as they seek to adapt themselves and their organizations to the global business environment.</td>
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<tr>
<td>MAN 6140</td>
<td>Decision Making &amp; Problem Solving</td>
<td>2</td>
<td>BA, MAN</td>
<td></td>
</tr>
<tr>
<td>MAN 6149</td>
<td>Leadership and Teams</td>
<td>3</td>
<td>BA, MAN</td>
<td>PR: GS.</td>
</tr>
<tr>
<td></td>
<td>Exploration, analysis and applications of Leadership theory, research concepts and skills in teams and organizations. Course provides insights into opportunities and challenges faced by leaders as they seek to adapt themselves and their organizations to the global business environment.</td>
<td></td>
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<tr>
<td>MAN 6204</td>
<td>Organization Design and Structure</td>
<td>3</td>
<td>BA, MAN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Systematic study of architecture, design and management approaches that influence the effectiveness of public and private organizations, including theory, environment, technology, culture, behavior control and work design.</td>
<td></td>
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</tr>
<tr>
<td>MAN 6256</td>
<td>Politics and Control in Organization</td>
<td>3</td>
<td>BA, MAN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course explores politics and control at the individual, small group, and organizational levels. Students will</td>
<td></td>
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</tbody>
</table>
also explore the power relationships between organizations and the larger political/economic systems of which they are a part and with which they interact.

<table>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Degree</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6289</td>
<td>Organization and Development</td>
<td>3</td>
<td>BA</td>
<td>MAN</td>
<td>PR: MAN 6055 or CI.</td>
<td>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...</td>
</tr>
<tr>
<td>MAN 6305</td>
<td>Human Resource Management</td>
<td>3</td>
<td>BA</td>
<td>MAN</td>
<td>PR: GS.</td>
<td>Course focuses on the complex decision-making processes involved in the management of human resources within an organizational system geared to meeting both individual needs and organizational objectives.</td>
</tr>
<tr>
<td>MAN 6448</td>
<td>Negotiating Agreement and Resolving Conflict</td>
<td>3</td>
<td>BA</td>
<td>MAN</td>
<td>PR: GS.</td>
<td>Provide the student with an overview of conflict resolution within/between organizations. Includes negotiation, mediation, arbitration, peer review, and other alternatives to litigation; internal dispute resolution, dispute system design/implementation.</td>
</tr>
<tr>
<td>MAN 6525</td>
<td>Quality Management</td>
<td>3</td>
<td>BA</td>
<td>MAN</td>
<td>PR: GS.</td>
<td>This course provides the student with an understanding of the fundamentals of quality management. Students will develop an appreciation for the complexities of modern organizations in the pursuit of quality. A cross-function multidisciplinary approach is used.</td>
</tr>
<tr>
<td>MAN 6527</td>
<td>Advanced Seminar in Quality Management</td>
<td>3</td>
<td>BA</td>
<td>MAN</td>
<td>PR: MAN 6525</td>
<td>This course explores the new paradigm shift occurring in business. Focusing on quality enhancement initiatives, the course explores the execution of quality management programs and their associated complexities.</td>
</tr>
<tr>
<td>MAN 6569</td>
<td>Quantitative Applications for Management Decisions</td>
<td>3</td>
<td>BA</td>
<td>QMB</td>
<td>PR: QMB 6305 and QMB 6603</td>
<td>The integration of quantitative approaches and management science tools into the decision making process at various organizational levels and in various organizational settings involved in the production and dissemination of goods and services.</td>
</tr>
<tr>
<td>MAN 6601</td>
<td>International Management</td>
<td>3</td>
<td>BA</td>
<td>MAN</td>
<td>PR: GS.</td>
<td>A study of the characteristics of the international and multinational company, environmental constraints, personnel and labor relations factors, and strategic planning and policies.</td>
</tr>
<tr>
<td>MAN 6607</td>
<td>Managing International</td>
<td>3</td>
<td>BA</td>
<td>MAN</td>
<td>PR: GS.</td>
<td>Examines the effects of culture and nationality on business practices in...</td>
</tr>
<tr>
<td>Course Code</td>
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<td>Prerequisites</td>
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<tr>
<td>MAN 6726</td>
<td>Strategic Planning</td>
<td>3</td>
<td>BA</td>
<td>MAN PR: Graduate Standing</td>
<td>Examines techniques to creatively vision and analyze the future to prepare individuals and organizations for future opportunities and threats. Designed to familiarize students with techniques for analyzing the future, critical issues, how the future will impact them as individuals.</td>
<td></td>
</tr>
<tr>
<td>MAN 6806</td>
<td>Entrepreneurship and Small Business Management Counseling</td>
<td>1-3</td>
<td>BA</td>
<td>MAN PR: CC. S/U.</td>
<td>Small business management consulting to an on-going firm or development of a business plan for a new enterprise. Emphasis on developing consulting skills and recognizing implications of entrepreneurs capabilities and attitudes for success.</td>
<td></td>
</tr>
<tr>
<td>MAN 6905</td>
<td>Independent Study</td>
<td>1-19</td>
<td>BA</td>
<td>MAN PR: CC. S/U.</td>
<td>Independent study in which student must have a contract with an instructor.</td>
<td></td>
</tr>
<tr>
<td>MAN 6911</td>
<td>Directed Research</td>
<td>1-19</td>
<td>BA</td>
<td>MAN S/U. PR: GR. ML. CC.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MAN 6930</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>BA</td>
<td>MAN PR: CC.</td>
<td>Interdisciplinary overview of theory and research on macro organizational variables affecting organizational design and effectiveness. Focus on relationships between organizational structure and dynamics of human behavior.</td>
<td></td>
</tr>
<tr>
<td>MAN 6971</td>
<td>Thesis: Master’s</td>
<td>1-19</td>
<td>BA</td>
<td>MAN</td>
<td>Interdisciplinary overview of theory and research on macro organizational variables affecting organizational design and effectiveness. Focus on relationships between organizational structure and dynamics of human behavior.</td>
<td></td>
</tr>
<tr>
<td>MAN 7205</td>
<td>Organization Theory</td>
<td>3</td>
<td>BA</td>
<td>MAN PR: MAN 7225 or CI.</td>
<td>Parametric &amp; nonparametric statistics required. Research: Methods for organization analysis and management, design, sample selection, data collection, interpretation and presentation of results.</td>
<td></td>
</tr>
<tr>
<td>MAN 7225</td>
<td>Research Elective in Management</td>
<td>3</td>
<td>BA</td>
<td>MAN PR: MAN 6055, Research Methods I and II or equiv.</td>
<td>Behavioral concepts and practices in organizations. Emphasis on individual groups, intragroup and intergroup development and actions; organization; socialization; motivation; values; performance;</td>
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<tr>
<td>Course Code</td>
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<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>MAN 7285</td>
<td>Organization Development</td>
<td>3 BA</td>
<td>MAN</td>
<td>PR: MAN 7205 or CI.</td>
<td>Theory and research relating to management efforts to design and implement continual developmental activities to alter climate and improve productivity and effectiveness in dynamic organizations.</td>
<td></td>
</tr>
<tr>
<td>MAN 7900</td>
<td>Directed Readings in Management</td>
<td>3 BA</td>
<td>MAN</td>
<td>PR: MAN 7245 and MAN 7285 or CI.</td>
<td>Advanced reading program from selected areas in management under supervision of faculty member, requiring written contract describing requirements, prior to registration.</td>
<td></td>
</tr>
<tr>
<td>MAN 7905</td>
<td>Independent Study in Management</td>
<td>1-4 BA</td>
<td>MAN</td>
<td>PR: CC. S/U only.</td>
<td>Course permits a management doctoral student to conduct research and pursue specific areas of interest with a faculty member as supervisor. Contract required to establish performance levels expected.</td>
<td></td>
</tr>
<tr>
<td>MAN 7910</td>
<td>Directed Research in Management</td>
<td>3 BA</td>
<td>MAN</td>
<td>PR: MAN 7245 and MAN 7285 or CI. S/U.</td>
<td>Advanced directed research program in a specific area of management under supervision of a management faculty member.</td>
<td></td>
</tr>
<tr>
<td>MAN 7920</td>
<td>Research Symposium</td>
<td>1 BA</td>
<td>MAN</td>
<td></td>
<td>A flexible format to offer specialized courses in management not available in regular curriculum.</td>
<td></td>
</tr>
<tr>
<td>MAN 7930</td>
<td>Selected Topics in Management</td>
<td>3 BA</td>
<td>MAN</td>
<td>PR: MAN 7245 and MAN 7285 or CI.</td>
<td>Critical examination of problems and issues relevant to contemporary management, such as productivity improvement, environmental constraints, etc.</td>
<td></td>
</tr>
<tr>
<td>MAN 7932</td>
<td>Seminar in Management</td>
<td>3 BA</td>
<td>MAN</td>
<td>PR: MAN 7245 and MAN 7285 or CI.</td>
<td>Introduces basic theoretical issues and empirical research in strategic management.</td>
<td></td>
</tr>
<tr>
<td>MAN 7935</td>
<td>Seminar in Strategic Management</td>
<td>3 BA</td>
<td>MAN</td>
<td>PR: CC.</td>
<td></td>
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</tr>
<tr>
<td>MAN 7980</td>
<td>Dissertation</td>
<td>2-21 BA</td>
<td>MAN</td>
<td>PR: Successful completion of preliminary exams; successful completion of Field Exams in each Major and Secondary field and admission to candidacy for Ph.D. program in Management.</td>
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<tr>
<td>MAP 5316</td>
<td>Ordinary Differential Equations I</td>
<td>3 AS</td>
<td>MTH</td>
<td>PR: MAP 2302 and MAA 4211, or CI.</td>
<td>Existence and uniqueness theory, properties of solutions, linear systems, stability theory. Sturm-Liouville theory.</td>
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<td>Course</td>
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<td>Credits</td>
<td>Degree</td>
<td>Prerequisites</td>
<td>Topics</td>
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<tr>
<td>MAP 5317</td>
<td>Ordinary Differential Equations II</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: MAP 5316 and MAA 5307 or CI. Topics selected from fixed point theory, comparison theory, oscillation theory, Poincare-Bendixson Theory, Lyapunov functions, eigenfunction expansions.</td>
<td></td>
</tr>
<tr>
<td>MAP 5345</td>
<td>Applied Partial Differential Equations</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: MAP 5407 or CI. Separation of variables, the heat equation, wave equation, Laplace's equation, classification, Green's functions with emphasis on applications.</td>
<td></td>
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<tr>
<td>MAP 5407</td>
<td>Methods of Applied Mathematics</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: MAP 2302 or CI. 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.</td>
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</tr>
<tr>
<td>MAP 6205</td>
<td>Control Theory and Optimization</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: MAA 5307 and MAP 5316 or CI. Projection theorems and minimum norm problems, convex analysis, duality principle, constrained optimization, finite dimensional linear systems, controllability, optimal control and Pontryagin maximum principle</td>
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<tr>
<td>MAP 6206</td>
<td>Math Opt Th II</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: MAA 5307 and MAP 5317, or CI. Advanced topics selected from: existence and uniqueness theory, singularity theory, asymptotics and stability, eigenfunctions, perturbations, topological methods, spectral theory of differential operators.</td>
<td></td>
</tr>
<tr>
<td>MAP 6336</td>
<td>Theory of Ordinary Differential Equations I</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: MAA 5307 and MAP 5307, or CI. Advanced topics from: elliptic boundary value problems, semigroup theory, Sobolev spaces, degree theory, regularity, evolution equations</td>
<td></td>
</tr>
<tr>
<td>MAP 6356</td>
<td>Partial Differential Equations</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: MAP 5345 and MAA 5307, or CI. 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.</td>
<td></td>
</tr>
<tr>
<td>MAR 6158</td>
<td>International Marketing Management</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: MAR 6815, CC. 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.</td>
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<tr>
<td>Course Code</td>
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<td>Degree</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>MAR 6336</td>
<td>Promotional Management</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: MAR 6815, CC.</td>
<td>Management of the promotional function as part of the total marketing program. Includes a study of relevant buyer behavior concepts, resources and budgets, media, creative aspects, and effectiveness measurements as they relate to the management tasks of developing, implementing, and evaluating promotional strategy.</td>
</tr>
<tr>
<td>MAR 6406</td>
<td>Sales Management</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: MAR 6815, CC.</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 6646</td>
<td>Research for Marketing Managers</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: MAR 6815, QMB 6305, ISM 6021.</td>
<td>A study of marketing research methods and information systems and their relationship to marketing decision-making. Topics include value and cost of information, sample design, questionnaire design, statistical analysis, and report presentation. Lecture, reading, case analysis, and project.</td>
</tr>
<tr>
<td>MAR 6815</td>
<td>Marketing Management</td>
<td>2</td>
<td>BA</td>
<td>MBA</td>
<td>PR: ECO 6114, CC.</td>
<td>Analysis of operational and strategic planning problems confronting marketing managers. Topics include buyer behavior, market segmentation, information systems, product selection and development, pricing, distribution, promotion, and sales force management.</td>
</tr>
<tr>
<td>MAR 6816</td>
<td>Marketing Strategy</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: MAR 6815, CC.</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 6907</td>
<td>Independent Study</td>
<td>1-19</td>
<td>BA</td>
<td>MKT</td>
<td>PR: CC. S/U.</td>
<td>Must have a contract with an instructor.</td>
</tr>
<tr>
<td>MAR 6916</td>
<td>Directed Research</td>
<td>1-19</td>
<td>BA</td>
<td>MKT</td>
<td>PR: GR. M.L, CC. S/U.</td>
<td>The content and organization of this course will vary according to the interests of the faculty and students involved in any given term.</td>
</tr>
<tr>
<td>MAR 6936</td>
<td>Selected Topics in Marketing</td>
<td>1-4</td>
<td>BA</td>
<td>MKT</td>
<td>PR: CI.</td>
<td>This course investigates the interrelationships and applications of behavioral science theories, concepts and skills.</td>
</tr>
<tr>
<td>MAR 7555</td>
<td>Consumer Behavior Theory</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: CC.</td>
<td>This course investigates the interrelationships and applications of behavioral science theories, concepts and skills.</td>
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</table>
and methodologies to problems of understanding group as well as individual behavior in the market place.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MAR 7635</td>
<td>Advanced Marketing Research: Design and Technique</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: QMB 7565, QMB 7566 or CI.</td>
<td>An intensive study of the theoretical, conceptual, and methodological issues in survey and experimental marketing research. A review and expansion of advanced marketing data analysis methods.</td>
</tr>
<tr>
<td>MAR 7667</td>
<td>Marketing Models and Strategy Applications</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: CC.</td>
<td>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.</td>
</tr>
<tr>
<td>MAR 7787</td>
<td>Marketing Theory and Thought</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: GS and CI.</td>
<td>An intensive study of marketing concepts and theories from 1900 to present. Emphasis is placed on the development of theory, as well as predictions of future theoretical developments.</td>
</tr>
<tr>
<td>MAR 7910</td>
<td>Independent Study in Marketing</td>
<td>1-3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: CC. S/U.</td>
<td>This course permits a doctoral student to pursue research in a specific area under the direct supervision of a faculty member.</td>
</tr>
<tr>
<td>MAR 7930</td>
<td>Advanced Seminar in Marketing</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: CC.</td>
<td>Broad readings within the field of marketing; an intensive survey and analysis of current marketing problems, their significance, evaluation, and probable outcome; suggestions of possible future empirical research directions and investigations.</td>
</tr>
<tr>
<td>MAR 7931</td>
<td>Seminar on Selected Marketing Topics</td>
<td>3</td>
<td>BA</td>
<td>MKT</td>
<td>PR: CC.</td>
<td>Intensive study of the theoretical, conceptual, and methodological issues and problems which impact managerial applications in selected topic areas, such as marketing channels, distribution/logistics, environmental or (social) nonprofit marketing, consumer behavior, advertising/media research, or international marketing.</td>
</tr>
<tr>
<td>MAR 7980</td>
<td>Dissertation</td>
<td>2-21</td>
<td>BA</td>
<td>MKT</td>
<td>PR: Successful completion of preliminary</td>
<td>Directed research.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>AS</td>
<td>MTH</td>
<td>PR/CP</td>
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</tr>
<tr>
<td>MAS 5215</td>
<td>Number Theory</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: MAS 3105 and MAS 4301, or CI.</td>
<td>Fundamental theorem of arithmetic, modular arithmetic, Chinese remainder theorem, Mersenne primes, perfect numbers, Euler-Fermat theorem, pseudo primes, primitive roots, law of quadratic reciprocity, factorization and primality testing algorithms.</td>
</tr>
<tr>
<td>MAS 5311</td>
<td>Algebra I</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: MAS 3105 and MAS 4301 or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>MAS 5312</td>
<td>Algebra II</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: MAS 5311 or CI.</td>
<td>Continuation of MAS 5311. Finitely generated modules over a principal ideal domain, basic field theory, finite fields, Galois theory.</td>
</tr>
<tr>
<td>MAT 5932</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>AS</td>
<td>MTH</td>
<td>PR: CI.</td>
<td>Each course covers a single topic outside the usual curriculum.</td>
</tr>
<tr>
<td>MAT 6908</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>MTH</td>
<td>S/U.</td>
<td>Independent study in which student must have a contract with an instructor.</td>
</tr>
<tr>
<td>MAT 6911</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>MTH</td>
<td>PR: Master's degree. S/U.</td>
<td></td>
</tr>
<tr>
<td>MAT 6932</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>AS</td>
<td>MTH</td>
<td>PR: CI</td>
<td>Each course covers a single topic outside the usual curriculum.</td>
</tr>
<tr>
<td>MAT 6939</td>
<td>Graduate Seminar</td>
<td>1-4</td>
<td>AS</td>
<td>MTH</td>
<td>S/U.</td>
<td>Direction of this seminar is by a faculty member. Students are required to present research papers from the literature.</td>
</tr>
<tr>
<td>MAT 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>MTH</td>
<td>PR: CI S/U</td>
<td></td>
</tr>
<tr>
<td>MAT 7980</td>
<td>Dissertation: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>MTH</td>
<td>PR: Admission</td>
<td></td>
</tr>
</tbody>
</table>

640
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Pre-Requisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 5206</td>
<td>Public Health and Pathogenic Microbiology</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>PR: MCB 3020C, CI. 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.</td>
</tr>
<tr>
<td>MCB 5655</td>
<td>Applied and Environmental Biology</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>PR: MCB 3020C. 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.</td>
</tr>
<tr>
<td>MCB 5815</td>
<td>Medical Mycology</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>PR: MCB 3020C or CI. A modern biological survey of the medically important fungi (yeasts and molds) important to microbiologists and environmental scientists.</td>
</tr>
<tr>
<td>MCB 6760</td>
<td>Microbial Symbioses</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>A detailed study of the diversity and biological significance of symbiotic associations formed by prokaryotic and eukaryotic microbes with higher organisms. Emphasis is on the regulatory interplay between host and symbiont and the factors influencing the initiation, development, and maintenance of these associations.</td>
</tr>
<tr>
<td>MCB 6919</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>BIO</td>
<td>PR: CI. S/U. Independent study in which student must have a contract with an instructor.</td>
</tr>
<tr>
<td>MCB 6930</td>
<td>Graduate Microbiology Seminar</td>
<td>1</td>
<td>AS</td>
<td>BIO</td>
<td>A critical examination and discussion of current literature of microbiology.</td>
</tr>
<tr>
<td>MEL 6705</td>
<td>Computer Assisted Diagnosis for Radiology</td>
<td>3</td>
<td>ME</td>
<td>RAD</td>
<td>The student will spend one or two half-days per week per discipline in chosen office practice settings. Opportunities are available in rheumatology, infectious disease,</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Hours</td>
<td>ME</td>
<td>MSG</td>
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<tr>
<td>MEL 7324</td>
<td>Elective in Dermatopathology</td>
<td>var</td>
<td>ME</td>
<td>MSG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Designed for the student interested in pursuing dermatology residency. Students receive didactic and case-based instruction in dermatopathology, as well as the opportunity to participate in ongoing departmental research.</td>
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</tr>
<tr>
<td>MEL 7503</td>
<td>Pediatric Ophthalmology</td>
<td>1-20</td>
<td>ME</td>
<td>MSG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
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</tr>
<tr>
<td>MEL 7509</td>
<td>Glaucoma</td>
<td>1-20</td>
<td>ME</td>
<td>MSG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This course is designed for students interested in Ophthalmology as a career. The student will participate in the glaucoma service. The course includes participation in cornea clinics and observation of glaucoma surgery. Clinical methods used in the diagnosis and treatment of glaucoma will be presented.</td>
<td></td>
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</tr>
<tr>
<td>MEL 8369</td>
<td>Outpatient Subspecialty Clinics in Internal Medicine</td>
<td>var.</td>
<td>ME</td>
<td>MSG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The student will spend time with a selected medical specialist located primarily in the USF Medical Clinics. The exact mix of experience will be tailored to the student's preference.</td>
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<tr>
<td>MEL 8376</td>
<td>Respiratory Disease Research</td>
<td>var.</td>
<td>ME</td>
<td>MSG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Allergic &amp; immunologic problems affect up to 20% of adults and children in the United States, therefore students rotating in Allergy &amp; Immunology are exposed to a variety of common problems important to physicians regardless of their specialty interests.</td>
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<tr>
<td>MEL 8390</td>
<td>Hepatology Elective</td>
<td>var.</td>
<td>ME</td>
<td>MSG</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>MEL 8666</td>
<td>Neuroimmunology Research in</td>
<td></td>
<td>ME</td>
<td>MSG</td>
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<tr>
<td></td>
<td>This elective is designed to teach medical students basic aspects of research in neuroimmunology. By</td>
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<td></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit</td>
<td>Hours</td>
<td>Prerequisites</td>
<td>Description</td>
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</tr>
<tr>
<td>MEL 8667</td>
<td>Cognitive Medicine, Neuropsychiatry, Neuroscience</td>
<td>ME</td>
<td>MSG</td>
<td></td>
<td>This elective is designed to provide interested senior medical students an intense clinical training and research in the neurosciences and neuropsychiatry.</td>
</tr>
<tr>
<td>MEL 8901</td>
<td>Aging, End-of-Life Issues in Literature/Film/Art</td>
<td>var. ME</td>
<td>MSG</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>MEL 8902</td>
<td>Medicine and the Arts: NYC Voices and Visions</td>
<td>var. ME</td>
<td>MSG</td>
<td></td>
<td>This course is designed to introduce students to a broad examination of visions &amp; voices occurring in various forms of the arts. Materials selected for this course emphasize the telling of a story from non-scientific, non-objective perspectives.</td>
</tr>
<tr>
<td>MET 6140</td>
<td>Weather, Climate, and Society</td>
<td>3</td>
<td>AS</td>
<td>GPY</td>
<td>This course explores the societal impacts of weather as well as the human impact on weather and climate. Students lead and participate in discussions.</td>
</tr>
<tr>
<td>MHF 5306</td>
<td>Mathematical Logic and Foundations I</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Two-course sequence covering: predicate calculus and classical model theory; transfinite set theory and the system ZFC; recursion theory and decidability.</td>
</tr>
<tr>
<td>MHF 5402</td>
<td>The Early History of Mathematics</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>A study of the history and development of mathematics and its cultural impact from the formation of number systems to the Renaissance.</td>
</tr>
<tr>
<td>MHF 5405</td>
<td>History of Modern Mathematics</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>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.</td>
</tr>
<tr>
<td>MHF 6307</td>
<td>Mathematical Logic And Foundations II</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>Continuation of MHF 5306.</td>
</tr>
<tr>
<td>MHS 5020</td>
<td>Foundations of Mental Health Counseling</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
<td>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 mentalhealth counseling.</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Units</td>
<td>Type</td>
<td>CR</td>
<td>PR</td>
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<tr>
<td>MHS 5480</td>
<td>Human Growth and Development</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
<td>RCS 5780, MHS 5020, Majors only.</td>
</tr>
<tr>
<td>MHS 5905</td>
<td>Directed Studies</td>
<td>1-4</td>
<td>ED</td>
<td>EDG</td>
<td></td>
</tr>
<tr>
<td>MHS 6006</td>
<td>Trends and Principles of the Counseling Profession</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>CI</td>
</tr>
<tr>
<td>MHS 6021</td>
<td>Counseling in Community Settings</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
<td></td>
</tr>
<tr>
<td>MHS 6070</td>
<td>Study of Mental Disorders for Counselors</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
<td>MHS 6006 or CI.</td>
</tr>
<tr>
<td>MHS 6200</td>
<td>Assessment and Appraisal Procedures</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>MHS 6006.</td>
</tr>
<tr>
<td>MHS 6201</td>
<td>Applied Behavior Analysis in Complex Community Environment s</td>
<td>3</td>
<td>FM</td>
<td>MHS</td>
<td></td>
</tr>
<tr>
<td>MHS 6340</td>
<td>Career Development</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>MHS 6006.</td>
</tr>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS 6341</td>
<td>Career Program Design and Evaluation</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
<td>PR: MHS 6006</td>
<td>Study of the various components of designing, implementing, managing and evaluating effective career programs.</td>
</tr>
<tr>
<td>MHS 6400</td>
<td>Counseling Theories and Practices</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: EDF 6354 and MHS 6006.</td>
<td>This course is the study of the nature of the counseling process with emphasis on major theoretical approaches and related personality theories, development of basic counseling skills and supervised practice.</td>
</tr>
<tr>
<td>MHS 6420</td>
<td>Multicultural Counseling with Diverse Populations</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
<td>PR: MHS 6400.</td>
<td>Counseling strategies applied to diverse populations including the use of school and community resources. Each student will select a specific population group for supervised research.</td>
</tr>
<tr>
<td>MHS 6421</td>
<td>Counseling Children</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: EDF 6354 and MHS 6006.</td>
<td>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.</td>
</tr>
<tr>
<td>MHS 6430</td>
<td>Dynamics of Marriage &amp; Family Systems Theory</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: MHS 6400.</td>
<td>The major theoretical approaches to systems therapy including strategic, structural, contextual, object-relations and Adlerian models are presented. Also included is the investigation of transgenerational problems and symbolic structures in families as they relate to General Systems Theory.</td>
</tr>
<tr>
<td>MHS 6431</td>
<td>Family Therapy &amp; Techniques</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: MHS 6430.</td>
<td>This course concentrates on the theory and application of intervention techniques to family systems. Structured experiences include interviewing, assessing, making therapeutic interventions, observing family interaction, and developing basic aspects in treating families.</td>
</tr>
<tr>
<td>MHS 6432</td>
<td>Marriage Therapy</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: MHS 6430.</td>
<td>A study of the marriage relationship with emphasis on issues of premarital, marital, divorce, intimacy, and conflict management. Course activities introduce students to a wide variety of therapy procedures and intervention strategies.</td>
</tr>
<tr>
<td>MHS 6450</td>
<td>Counseling Substance Abuse in School and</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: MHS 6400.</td>
<td>This course prepares counselors to work with substance abuse issues, including prevention, in schools and community out-patient settings.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Time</td>
<td>Prerequisite(s)</td>
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</tr>
<tr>
<td>MHS 6509</td>
<td>Group Counseling Theories and Practices</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: MHS 6400.</td>
<td></td>
</tr>
<tr>
<td>MHS 6601</td>
<td>Consultation for the Counseling Profession</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
<td>PR: MHS 6400 and MHS 6006. Non-majors need instructor's approval.</td>
<td></td>
</tr>
<tr>
<td>MHS 6620</td>
<td>Counseling in Community Setting</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
<td></td>
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</tr>
<tr>
<td>MHS 6700</td>
<td>Legal and Ethical Issues in the Counseling Profession</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
<td>PR: MHS 6006.</td>
<td></td>
</tr>
<tr>
<td>MHS 6800</td>
<td>Practicum in Counseling Adolescents and Adults</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: MHS 6400. S/U. DPR.</td>
<td></td>
</tr>
<tr>
<td>MHS 6885</td>
<td>Internship in Community Agency Counseling</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MHS 6900</td>
<td>Special Topics in Planning, Evaluation and Accountability</td>
<td>1-3</td>
<td>FM</td>
<td>MHS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MHS 6905</td>
<td>Individual Study</td>
<td>1-4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: DPR.</td>
<td></td>
</tr>
</tbody>
</table>

Includes counseling and program approaches found to be effective in addressing substance abuse.

Emphasizes include exploration of various dimensions of human sexuality; dynamics of major individual and societal sexuality issues; theoretical approaches to counseling related to sexuality issues.

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.

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.

Study of community counseling within the context of health and human service systems including treatment modalities, administration, and fiscal considerations.

Study of legal, ethical and related issues affecting the role and responsibilities of counselors in schools and mental health facilities.

Supervised counseling for integration and application of knowledge and skills gained in didactic study.

Field experience involving one semester of full-time participation in the counseling and related activities of a public or private agency providing mental health services to the community.

This course will address selected special topics. Prerequisite is at least three credits in research and evaluation courses at the graduate level.

Independent study, research, and experience relating to professional counseling under the supervision of a member of the Counselor Education
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Emphasis</th>
<th>Ed</th>
<th>Edg</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS 6906</td>
<td>Independent Study in Behavior Analysis Applications in Community Settings</td>
<td>1-6</td>
<td>ED</td>
<td>EDG</td>
<td>PR: Program approval required - FAO 126.</td>
<td>Independent study in behavior analysis provides students opportunities to focus on special areas of study under a contractual agreement with a faculty member.</td>
<td></td>
</tr>
<tr>
<td>MHS 6930</td>
<td>Seminar In Guidance</td>
<td>1-2</td>
<td>ED</td>
<td>EDG</td>
<td>PR or CR: MHS 6006, DPR. S/U.</td>
<td>Significant issues in the field of counseling; topics will vary as needs and developments within the practice of the profession are identified.</td>
<td></td>
</tr>
<tr>
<td>MHS 6938</td>
<td>Applied Behavior Analysis in Community Settings</td>
<td>1-4</td>
<td>ED</td>
<td>EDG</td>
<td></td>
<td>Addresses selected topics in behavior analysis applications in complex community environments through lecture, class discussion, and supervised special projects.</td>
<td></td>
</tr>
<tr>
<td>MHS 6940</td>
<td>Practicum in Behavior Analysis in Community Settings</td>
<td>2-4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: Program approval required - FAO 126.</td>
<td>Supervised field work in the application of behavior analysis to children, adults and/or their families in complex community environments, including home, school, employment and neighborhood settings.</td>
<td></td>
</tr>
<tr>
<td>MHS 6970</td>
<td>Thesis: Masters/Educational Specialist</td>
<td>2-19</td>
<td>ED</td>
<td>EDG</td>
<td>S/U. MA/EdS Candidates only.</td>
<td>The Thesis credits will provide students the opportunity to conduct independent applied behavior analysis single subject experimental design studies, or special research projects related to applications in community settings.</td>
<td></td>
</tr>
<tr>
<td>MHS 6971</td>
<td>Thesis in Applied Behavior Analysis</td>
<td>2-6</td>
<td>ED</td>
<td>EDG</td>
<td>PR: Program approval required - FAO 126.</td>
<td></td>
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</tr>
<tr>
<td>MHS 7401</td>
<td>Advanced Counseling: Theories and Practicum</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: CI.</td>
<td>Advanced study of major counseling theories and their application in therapeutic work with individual clients and with groups in a variety of settings. Supervised practice in individual and group counseling with emphasis on integration of theory and practice.</td>
<td></td>
</tr>
<tr>
<td>MHS 7610</td>
<td>Supervision: Theories and Practicum</td>
<td>4</td>
<td>ED</td>
<td>EDG</td>
<td>PR: CI.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MHS 7740</td>
<td>Survey Course in</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
<td>PR: Masters in field related to</td>
<td>This introductory course is designed to provide a comprehensive</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
<td>Type</td>
<td>Grade</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>MHS 7930</td>
<td>Advanced Seminar in Counselor Education</td>
<td>2</td>
<td>ED</td>
<td>EDG</td>
<td>PR: DPR. S/U.</td>
<td>Seminar for advanced graduate students in counselor education. Issues and trends in professional counseling will be addressed.</td>
<td></td>
</tr>
<tr>
<td>MHS 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDG</td>
<td>PR: Admission to Candidacy.</td>
<td>Overview of planning, evaluation and accountability methods within a systems context. Emphasis is placed on a broad range of quantitative and qualitative methods.</td>
<td></td>
</tr>
<tr>
<td>MM C 6206</td>
<td>Mass Communications Ethics</td>
<td>3</td>
<td>AS</td>
<td>COM</td>
<td>PR: GS in Mass Communication s or CI.</td>
<td>An introduction to fundamental ethical principles and an application of those principles to a variety of situations in journalism, broadcasting, advertising, and public relations.</td>
<td></td>
</tr>
<tr>
<td>MM C 6306</td>
<td>International Communications Seminar</td>
<td>3</td>
<td>AS</td>
<td>COM</td>
<td>PR: CC.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MM C 6401</td>
<td>Mass Communication Theory</td>
<td>3</td>
<td>AS</td>
<td>COM</td>
<td>PR: CC.</td>
<td>The study of mass communication theories, structures, influences, and their relationships to institutions in American society.</td>
<td></td>
</tr>
<tr>
<td>MM C 6421</td>
<td>Research Methods in Mass Communications</td>
<td>3</td>
<td>AS</td>
<td>COM</td>
<td>PR: CC.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MM C 6608</td>
<td>Public Opinion and the Mass Media</td>
<td>3</td>
<td>AS</td>
<td>COM</td>
<td>PR: CC.</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
| MM C 6612 | Seminar: Law and the Mass Media                                      | 3       | AS   | COM   | PR: CC.                        | Interrelationships of the media and government at the judicial, executive, and legislative levels. Focus is on legal limitations and privileges of the media; theory and 
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Unit Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Department</th>
<th>Corequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM C 6900</td>
<td>3</td>
<td>Directed Reading in Mass Communications</td>
<td>1-3</td>
<td>AS COM</td>
<td>PR: CI and permission of graduate advisor. S/U.</td>
<td>Readings in specialized areas of mass communications as agreed to by the instructor and the student by contract.</td>
</tr>
<tr>
<td>MM C 6910</td>
<td>3</td>
<td>Individual Research in Mass Communications</td>
<td>1-3</td>
<td>AS COM</td>
<td>PR: CI and permission of graduate advisor. S/U.</td>
<td>Independent study in which the student must have a contract with the instructor to study an area not covered by other courses in the graduate curriculum.</td>
</tr>
<tr>
<td>MM C 6920</td>
<td>3</td>
<td>Introductory Mass Communications Seminar</td>
<td>3</td>
<td>AS COM</td>
<td>PR: CC.</td>
<td>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.</td>
</tr>
<tr>
<td>MM C 6936</td>
<td>3</td>
<td>Selected Topics in Mass Communications</td>
<td>3</td>
<td>AS COM</td>
<td>PR: CC.</td>
<td>Courses designed to meet current, specific topics of interest to students and instructors.</td>
</tr>
<tr>
<td>MM C 6945</td>
<td>3</td>
<td>Professional Practicum</td>
<td>3</td>
<td>AS COM</td>
<td>PR: 12 graduate hours in mass communications and CC. S/U.</td>
<td>Practicum will consist of placement with a media-related organization selected by the student and approved and supervised by the graduate advisor.</td>
</tr>
<tr>
<td>MM C 6950</td>
<td>3</td>
<td>Non-Thesis Project</td>
<td>3</td>
<td>AS COM</td>
<td>PR: CI and permission of graduate advisor. S/U.</td>
<td>Completion of a major project under supervision. Topic will be selected according to student's needs and interests.</td>
</tr>
<tr>
<td>MTG 5316</td>
<td>3</td>
<td>Topology I</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MAA 4211.</td>
<td>The fundamental group; elements of homotopy theory and homology</td>
</tr>
<tr>
<td>MTG 5317</td>
<td>3</td>
<td>Topology II</td>
<td>3</td>
<td>AS MTH</td>
<td>PR: MTG 5316.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>VPs</td>
<td>Required by:</td>
<td>Description</td>
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<tr>
<td>MUC 5625</td>
<td>Jazz Composition</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>Private instruction in original composition. Required of all composition majors.</td>
<td></td>
</tr>
<tr>
<td>MUC 6251</td>
<td>Composition</td>
<td>4</td>
<td>VP</td>
<td>MUS</td>
<td>Private instruction in original composition. Required of composition majors.</td>
<td></td>
</tr>
<tr>
<td>MUC 6625</td>
<td>Seminar In Jazz Compositional Styles</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>A seminar study of the major compositional figures in jazz. Oriented toward the continuing development of students' own writing ability.</td>
<td></td>
</tr>
<tr>
<td>MUC 6626</td>
<td>Jazz Composition</td>
<td>4</td>
<td>VP</td>
<td>MUS</td>
<td>Private instruction in original composition. Required of all composition majors.</td>
<td></td>
</tr>
<tr>
<td>MUE 6080</td>
<td>Foundations And Principles Of Music Education</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>Investigation of historical, philosophical, and psychological foundations of music education.</td>
<td></td>
</tr>
<tr>
<td>MUE 6116</td>
<td>Advanced Techniques and Research in Elementary School Music</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>Study and appraisal of children's musical growth, curriculum plans, materials, and teaching techniques essential for the sequential development of musical learning.</td>
<td></td>
</tr>
<tr>
<td>MUE 6336</td>
<td>Advanced Techniques and Research in Vocal/Choral Music Education</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUE 6347</td>
<td>Advanced Techniques and Research in Instrumental</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>Course designed to examine published and unpublished materials, develop curricula and resources, including media hardware, appropriate for use in school</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>VP</td>
<td>MUS</td>
<td>Notes</td>
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<tr>
<td>MUE 6648</td>
<td>Techniques and Research in Alternate Music Education Methods</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: MUS 6520 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.</td>
<td></td>
</tr>
<tr>
<td>MUE 6906</td>
<td>Independent Study: Music Education</td>
<td>1-6</td>
<td>VP</td>
<td>MUS</td>
<td>S/U. DPR. Independent study in which students must have a contract with an instructor.</td>
<td></td>
</tr>
<tr>
<td>MUE 6942</td>
<td>Graduate Internship in Music Education</td>
<td>6</td>
<td>VP</td>
<td>MUS</td>
<td>This course is designed to provide the student teaching experience for music education graduate students pursuing an MA - Plan II, leading to certification.</td>
<td></td>
</tr>
<tr>
<td>MUE 6971</td>
<td>Thesis: Masters/Eds</td>
<td>2-19</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. A critical examination of current findings regarding the phenomena of the psychology of musical behaviors including the investigation of musical acoustics, the measurement of musical abilities, and a comparative study of theories of learning related to musical learning.</td>
<td></td>
</tr>
<tr>
<td>MUE 7815</td>
<td>Foundations Of Musical Learning And Teaching</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: Acceptance in the Music Education Graduate Program, a graduate level educational psychology course or its equivalent, or DPR. A course design to investigate the nature of philosophical issues as they pertain to music education theory and practice.</td>
<td></td>
</tr>
<tr>
<td>MUE 7835</td>
<td>Philosophical Issues in Music Education</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: Acceptance in the Music Education Graduate Program or CI. This course will provide an opportunity to examine selected topics in the research of choral, instrumental, general, and alternative music instruction models.</td>
<td></td>
</tr>
<tr>
<td>MUE 7937</td>
<td>Special Topics in Music Education</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: Dept. Approval Required This course will provide an opportunity to examine selected topics in the research of choral, instrumental, general, and alternative music instruction models.</td>
<td></td>
</tr>
<tr>
<td>MUE 7939</td>
<td>Doctoral Seminar in Music Education Research</td>
<td>1-2</td>
<td>VP</td>
<td>MUS</td>
<td>PR: Admission to Ph.D. Program Examination of theory and research in music education. Current research in music teaching and learning presented by faculty and guests. Students develop their dissertation topics, preliminary review of literature, and present their research proposals. May be repeated 4 times for up to 6 credits. S/U Grading.</td>
<td></td>
</tr>
<tr>
<td>MUE 7980</td>
<td>Dissertation</td>
<td>2-19</td>
<td>VP</td>
<td>MUS</td>
<td>PR: Admitted to Candidacy. S/U. DPR. The course will examine issues germane to the ways and contexts</td>
<td></td>
</tr>
<tr>
<td>MUE 7990</td>
<td>Doctoral Seminar on</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: Dept. Approval The course will examine issues germane to the ways and contexts</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Course Description</td>
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<tr>
<td>MU G 6256</td>
<td>Choral Literature And Conducting I</td>
<td>4</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR</td>
<td>Combination of seminar, classroom, and laboratory types of experience designed to provide depth in stylistic study of choral music literature and performance.</td>
</tr>
<tr>
<td>MU G 6257</td>
<td>Choral Literature And Conducting II</td>
<td>4</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR</td>
<td>Combination of seminar, classroom, and laboratory types of experience designed to provide depth in stylistic study of choral music literature and performance.</td>
</tr>
<tr>
<td>MU G 6258</td>
<td>Choral Literature And Conducting III</td>
<td>4</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR</td>
<td>Combination of seminar, classroom, and laboratory types of experience designed to provide depth in stylistic study of choral music literature and performance.</td>
</tr>
<tr>
<td>MU G 6307</td>
<td>Band/Wind Ensemble Conducting</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR</td>
<td>Combination of lecture, seminar, laboratory and individual instruction experiences designed to provide development of advanced conducting skills.</td>
</tr>
<tr>
<td>MU G 6930</td>
<td>Advanced Choral Techniques</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR</td>
<td>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.</td>
</tr>
<tr>
<td>MUL 6205</td>
<td>Advanced Choral Conducting</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>PR: Dept. Approval Required.</td>
<td>Combination of private study and laboratory experiences designed to teach conducting technique and rehearsal skills while encouraging leadership qualities in the choral conductor.</td>
</tr>
<tr>
<td>MUL 6375</td>
<td>Twentieth Century Music Literature</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR</td>
<td>A study of the literature, compositional techniques, and music philosophies of the major 20th century composers from Debussy to the present.</td>
</tr>
<tr>
<td>MUL 6410</td>
<td>Keyboard Repertory I</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR</td>
<td>A study of style, history, and performance practice in keyboard repertory including masterworks of all periods.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Type</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>MUL 6411</td>
<td>Keyboard Repertory II</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td>A study of style, history, and performance practice in keyboard repertory including masterworks of all periods.</td>
</tr>
<tr>
<td>MUL 6505</td>
<td>Symphonic Literature</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td>A chronological study of the development of orchestral music; analysis and study of major works from a stylistic and biographical perspective.</td>
</tr>
<tr>
<td>MUL 6555</td>
<td>Band/Wind Ensemble Literature</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td>Combination of seminar and classroom experiences designed to provide depth in historical study of band and wind ensemble literature. Rpt. Up to 9 hrs.</td>
</tr>
<tr>
<td>MUL 6565</td>
<td>Chamber Music Literature</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td>A survey and stylistic analysis of chamber music repertory from 1750 through the present day.</td>
</tr>
<tr>
<td>MUL 6624</td>
<td>Song Literature I</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td>Solo song literature from the 17th century through the contemporary with emphasis on German lieder, French songs, and contemporary English and American songs; special emphasis on performance.</td>
</tr>
<tr>
<td>MUL 6625</td>
<td>Song Literature II</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td>Solo song literature from the 17th century through the contemporary with emphasis on German lieder, French songs, and contemporary English and American songs; special emphasis on performance.</td>
</tr>
<tr>
<td>MUL 6655</td>
<td>Choral Literature 1500-1800</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: Dept. Approval Required.</td>
<td>A study and analysis of choral music from 1500-1800.</td>
</tr>
<tr>
<td>MUL 6656</td>
<td>Choral Literature 1800-present</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>PR: Dept. Approval Required.</td>
<td>A study and analysis of choral music from 1800-present.</td>
</tr>
<tr>
<td>MUL 6671</td>
<td>Opera Literature</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td>A chronological study of the development of opera from 1600 to the present; emphasis on the technical, stylistic, and performance aspects of opera.</td>
</tr>
<tr>
<td>MUL 6687</td>
<td>Solo Vocal Literature In Oratorio</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td>A survey of literature for the solo voice in cantatas and orchestral music.</td>
</tr>
<tr>
<td>MU N 6145</td>
<td>Wind Ensemble</td>
<td>1</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td>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.</td>
</tr>
<tr>
<td>MU N 6215</td>
<td>University Orchestra</td>
<td>1</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td>Open to all university students with the necessary proficiency in their performing media; study and performance of music for large</td>
</tr>
<tr>
<td>Code</td>
<td>Name</td>
<td>VP</td>
<td>MUS</td>
<td>PR</td>
<td>Description</td>
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<tr>
<td>MUN</td>
<td>University Singers</td>
<td>1</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. 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.</td>
<td></td>
</tr>
<tr>
<td>MUN</td>
<td>Chamber Singers</td>
<td>1</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. 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.</td>
<td></td>
</tr>
<tr>
<td>MUN</td>
<td>University-Community Chorus</td>
<td>1</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. 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.</td>
<td></td>
</tr>
<tr>
<td>MUN</td>
<td>String Quartet</td>
<td>1</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. 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.</td>
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</tr>
<tr>
<td>MUN</td>
<td>Woodwind Quintet</td>
<td>1</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. 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.</td>
<td></td>
</tr>
<tr>
<td>MUN</td>
<td>Brass Choir</td>
<td>1</td>
<td>VP</td>
<td>MUS</td>
<td>PR: DPR. 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.</td>
<td></td>
</tr>
<tr>
<td>MUN</td>
<td>Brass Quintet</td>
<td>1</td>
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<td>PR: DPR. 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.</td>
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<td>MUN</td>
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<td>MUN</td>
<td>6445</td>
<td>Percussion Ensemble</td>
<td>1</td>
<td>VP</td>
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<td>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.</td>
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<td>6446</td>
<td>Marimba Ensemble</td>
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<td>VP</td>
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<td>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.</td>
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<td>MUN</td>
<td>6455</td>
<td>Piano Ensemble</td>
<td>1</td>
<td>VP</td>
<td>MUS</td>
<td>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.</td>
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<td>MUN</td>
<td>6456</td>
<td>Piano Ensemble</td>
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<td>VP</td>
<td>MUS</td>
<td>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.</td>
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<td>MUN</td>
<td>6477</td>
<td>Collegium Musicum</td>
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<td>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.</td>
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<tr>
<td>MUN</td>
<td>6715</td>
<td>Jazz Ensemble</td>
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<td>MUS</td>
<td>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.</td>
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<td>MUN</td>
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<td>Jazz Chamber Ensemble</td>
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<tr>
<td>MU 6505</td>
<td>Opera Workshop</td>
<td>1 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
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<td>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.</td>
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<tr>
<td>MUS 5905</td>
<td>Directed Study</td>
<td>1-4 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td></td>
<td>Independent studies in the various areas of music; course of study and credits must be assigned prior to registration.</td>
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<tr>
<td>MUS 6520</td>
<td>Computer Applications in Music Education</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td></td>
<td>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.</td>
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<tr>
<td>MUS 6793</td>
<td>Techniques Of Research In Music And Music Education</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td></td>
<td>A study of the methods of research and professional bibliography and with an individual, formal project as a terminal requirement.</td>
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<tr>
<td>MUS 6906</td>
<td>Independent Study</td>
<td>1-19 VP</td>
<td>MUS</td>
<td>PR: DPR,S/U.</td>
<td></td>
<td>Independent study in which student must have a contract with an instructor.</td>
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<td>MUS 6910</td>
<td>Directed Research</td>
<td>1-19 VP</td>
<td>MUS</td>
<td>PR: GR. ML, DPR, S/U.</td>
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<tr>
<td>MUS 6971</td>
<td>Thesis: Master's</td>
<td>2-19 VP</td>
<td>MUS</td>
<td>PR: DPR, S/U</td>
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<td>MUS 6976</td>
<td>Graduate Recital</td>
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<td>MUS</td>
<td>PR: DPR</td>
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<tr>
<td>MUT 5051</td>
<td>Graduate Review Of Music Theory</td>
<td>2 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td></td>
<td>A graduate level review of basic theoretical concepts with emphasis on the common practice period. The course serves to satisfy deficiencies in music theory and does not count toward the graduate degree requirements.</td>
</tr>
<tr>
<td>MUT 6545</td>
<td>Analysis of 18th and 19th Century Music</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: CI.</td>
<td></td>
<td>An in-depth examination of the music of the 18th and 19th centuries. Students provide detailed analyses of selected works and read appropriate scholarly writings. Additional activities may include in-class presentations and a research paper.</td>
</tr>
<tr>
<td>MUT 6586</td>
<td>Critical Analysis-History</td>
<td>2 VP</td>
<td>MUS</td>
<td>PR: DPR.</td>
<td></td>
<td>A study of historical developments of music in western civilization. Emphasis on a different historical period each semester, from the Middle Ages through the Romantic Period.</td>
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<tr>
<td>MUT 6626</td>
<td>Analysis of</td>
<td>3 VP</td>
<td>MUS</td>
<td>PR: CI.</td>
<td></td>
<td>An in-depth examination of</td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>MUT 6627</td>
<td>Twentieth Century Music</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>Students will learn analytical techniques such as set theory and 12-tons techniques, read scholarly articles, give in-class presentations, and write a research paper to gain an understanding of the theoretical and musical trends of the 20th-century.</td>
<td></td>
</tr>
<tr>
<td>MUT 6665</td>
<td>Schenkerian Analysis</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>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.</td>
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<tr>
<td>MUT 6665</td>
<td>Seminar Jazz Styles And Analysis</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>A studio course study of the improvised solos of the major innovators in jazz. Oriented toward the continuing development of students' soloing ability.</td>
<td></td>
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<tr>
<td>MUT 6751</td>
<td>Teaching of Music Theory</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>Comparative study of teaching, techniques, procedures, and materials used in teaching visual and aural theory.</td>
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<tr>
<td>MUT 6760</td>
<td>History of Music Theory</td>
<td>3</td>
<td>VP</td>
<td>MUS</td>
<td>Evolutionary history of the materials of western music including tuning systems, scales, models, tonality, rhythm, counterpoint and harmony; also the exploration of treatises and theorists contributing to the evolution.</td>
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<tr>
<td>MVB 5251</td>
<td>Applied Trumpet</td>
<td>2</td>
<td>VP</td>
<td>MUS</td>
<td>Private and class instruction.</td>
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<tr>
<td>MVB 5252</td>
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<td>MUS</td>
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<td>Type</td>
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<tr>
<td>MVB 5253</td>
<td>Applied Trombone</td>
<td>2</td>
<td>VP</td>
<td>MUS PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.</td>
<td>Private and class instruction.</td>
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<tr>
<td>MVB 5254</td>
<td>Applied Euphonium</td>
<td>2</td>
<td>VP</td>
<td>MUS PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.</td>
<td>Private and class instruction.</td>
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<td>MVB 5255</td>
<td>Applied Tuba</td>
<td>2</td>
<td>VP</td>
<td>MUS PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.</td>
<td>Private and class instruction.</td>
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students who have a secondary applied music requirement.

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<th>MVB</th>
<th>6451</th>
<th>Applied Trumpet</th>
<th>4</th>
<th>VP</th>
<th>MUS</th>
<th>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</th>
<th>Required of all applied music majors. Private and class instruction.</th>
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<td>Applied French Horn</td>
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<td>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</td>
<td>Required of all applied music majors. Private and class instruction.</td>
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<td>MVB</td>
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<td>Required of all applied music majors. Private and class instruction.</td>
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<td>MVB</td>
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<td>MUS</td>
<td>PR: DPR. Necessary competency determined by faculty jury</td>
<td>Required of all applied music majors. Private and class instruction.</td>
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<td>MVJ</td>
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<td>2</td>
<td>VP</td>
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<td>PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.</td>
<td>Private and class instruction.</td>
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<td>MVJ</td>
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<td>5951</td>
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<td>PR: Necessary competency determined by faculty jury audition. Required of all applied music majors. Required registration in major performance ensemble.</td>
<td>Private and class instruction.</td>
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<td>MVJ</td>
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<td>MVJ 6464</td>
<td>Applied Jazz Bass</td>
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<td>MVJ 6952</td>
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<td>MV K 5251</td>
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<td>MVK 6650</td>
<td>Graduate Piano Pedagogy I</td>
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<td>MVK 6651</td>
<td>Graduate Piano Pedagogy II</td>
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<td>MVP 6451</td>
<td>Applied Percussion</td>
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<td>MVS 5251</td>
<td>Applied Violin</td>
<td>2</td>
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</table>
MVS 5252 Applied Viola 2 VP MUS PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVS 5253 Applied Cello 2 VP MUS PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVS 5254 Applied Double Bass 2 VP MUS PR: DPR. Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement. Private and class instruction.

MVS 6451 Applied Violin 4 VP MUS PR: DPR. Necessary Required of all applied music majors. Private and class instruction.
<table>
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<th>MVS 6452</th>
<th>Applied Viola</th>
<th>4</th>
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<th>MUS</th>
<th>PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble.</th>
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<td>MVS 6453</td>
<td>Applied Violoncello</td>
<td>4</td>
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<td>MV W 5251</td>
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<td>MUS</td>
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<td>MV W 5252</td>
<td>Applied Oboe</td>
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<td>Open to senior and advanced undergraduate students who have completed recital requirements, special non-degree seeking students, and students who have a secondary applied music requirement.</td>
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<td>MV W 5253</td>
<td>Applied Clarinet</td>
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<td>Private and class instruction.</td>
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<tr>
<td>MVW 5254</td>
<td>Applied Bassoon</td>
<td>2</td>
<td>VP</td>
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<td>MVW 5255</td>
<td>Applied Saxophone</td>
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<td>MUS PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble. Required of all applied music majors. Private and class instruction.</td>
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<td>MVW 6452</td>
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667
<p>| MVW | 6453 | Applied Clarinet | 4 | VP | MUS | PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble. | Required of all applied music majors. Private and class instruction. |
| MVW | 6454 | Applied Bassoon  | 4 | VP | MUS | PR: DPR. Necessary competency determined by faculty jury audition. Required registration in major performance ensemble. | Required of all applied music majors. Private and class instruction. |
| NGR | 5871 | Informatics in Nursing and Healthcare | 3 | NU | NUR | PR: CI. | Foundations course with emphasis on essential content and applications in healthcare informatics and clinical systems. Provides understanding of the interdisciplinary issues in medical and nursing informatics and a foundation for those seeking expertise in healthcare informatics. Focus on technologies in healthcare, nomenclatures and classification systems, health care documentation, electronic medical records, and web- |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Credit</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>NGR 6001</td>
<td>Health Assessment in Advanced Practice</td>
<td>3</td>
<td>NU NUR</td>
<td>An advanced history and physical examination course designed to increase students' competency in obtaining and recording systematic, integrated histories and physical examinations. The course covers examination across the human life span.</td>
</tr>
<tr>
<td>NGR 6042</td>
<td>Advanced Health Assessment for the Older Adult</td>
<td>1</td>
<td>NU NUR</td>
<td>Focus on advanced history and physical examination skills with older adults.</td>
</tr>
<tr>
<td>NGR 6054</td>
<td>Cancer Biology I</td>
<td>4</td>
<td>NU NUR</td>
<td>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.</td>
</tr>
<tr>
<td>NGR 6055</td>
<td>Cancer Biology II</td>
<td>4</td>
<td>NU NUR</td>
<td>A continuation of Cancer Biology I. Topics will include a comprehensive review of immunology as it relates to cancer and modern methods of cancer treatment.</td>
</tr>
<tr>
<td>NGR 6056</td>
<td>Cancer Research Techniques</td>
<td>4</td>
<td>NU NUR</td>
<td>An introduction to modern core research facilities and methodologies used in cancer research.</td>
</tr>
<tr>
<td>NGR 6057</td>
<td>Current Topics in Oncology</td>
<td>2</td>
<td>NU NUR</td>
<td>Renowned speakers from outside the USF Community will give weekly seminars on topics in oncology. Participants will meet weekly with the speakers and discuss the current state of the art.</td>
</tr>
<tr>
<td>NGR 6080</td>
<td>Family and Population-Based Health Promotion</td>
<td>3</td>
<td>NU NUR</td>
<td>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.</td>
</tr>
<tr>
<td>NGR 6096</td>
<td>Oncology Nursing Concepts</td>
<td>3</td>
<td>NU NUR</td>
<td>Provides advanced oncology nursing content with a focus on nursing management of physical problems resulting from cancer and its treatment. (CI)</td>
</tr>
<tr>
<td>NGR 6121</td>
<td>Theoretical Foundations and Professional Role Development</td>
<td>3</td>
<td>NU NUR</td>
<td>Examination of knowledge development in nursing science, critique and evaluation of theories from nursing and related fields. Professional role development is emphasized to facilitate transition into advanced nursing practice roles.</td>
</tr>
<tr>
<td>NGR 6135</td>
<td>Ethical,</td>
<td>3</td>
<td>NU NUR</td>
<td>Primary emphasis on contemporary</td>
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Based on technologies for healthcare.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites/Co-requisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6140</td>
<td>Pathophysiology for Advanced Practice</td>
<td>3</td>
<td>NUR CI.</td>
<td>Central concepts of pathophysiology: cells and tissues and organs and systems. Provides essential knowledge base in pathophysiology across the life span for advanced nurse practitioners.</td>
</tr>
<tr>
<td>NGR 6142</td>
<td>Pathobiology Of Neoplasia</td>
<td>3</td>
<td>NUR CI.</td>
<td>Emphasizes basic concepts of cellular differentiation and the abnormal cytological changes occurring in the pathogenesis of Neoplasia. Also emphasized is the role of the advanced practice nurse in relation to the role of the immune system and diet in oncogenesis, and the epidemiology and pathology of specific types of cancers.</td>
</tr>
<tr>
<td>NGR 6143</td>
<td>Pathophyslogic Concepts in Acute Care Nursing</td>
<td>3</td>
<td>NUR CI. PR: NGR 6140; NGR 6121; CI.</td>
<td>This course will explore pathophysiologic mechanisms of the major body systems in critically ill patients across the lifespan.</td>
</tr>
<tr>
<td>NGR 6175</td>
<td>GeroPharmacology for Advanced Nurse Practitioners</td>
<td>1</td>
<td>NUR</td>
<td>Focus on pharmacokinetic and pharmacodynamic changes unique to the elderly along with the potential adverse drug effects and factors that affect therapeutic decision-making.</td>
</tr>
<tr>
<td>NGR 6194</td>
<td>Substance Abuse Across the Lifespan</td>
<td>3</td>
<td>NUR</td>
<td>this course introduces the student to concepts of substance abuse and theories of addiction. The applicability of theories and concepts to clinical assessment, diagnosis and intervention with client populations across the lifespan is explored.</td>
</tr>
<tr>
<td>NGR 6196</td>
<td>Managing Healthcare Resources</td>
<td>3</td>
<td>NUR PR: CI.</td>
<td>Managing human and financial resources to achieve quality outcome and enhance health care services. Focus on quantifying processes of care and outcomes and on the continuous improvement of quality in health care program delivery.</td>
</tr>
<tr>
<td>NGR 6197</td>
<td>Nursing Interventions into the Effects of Drug and Alcohol Abuse</td>
<td>2</td>
<td>NUR</td>
<td>Focuses on the assessment and treatment of individuals and families who are in the acute phase of addiction. Emphasis will be placed on treatment outcomes for designated populations with consideration for cultural,</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Examples</th>
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</thead>
<tbody>
<tr>
<td>NGR 6198</td>
<td>Nursing Interventions in the Rehabilitation of Clients with Drug or Alcohol Abuse</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
</tr>
<tr>
<td>NGR 6199</td>
<td>Pharmacology for Advanced Practice</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
</tr>
<tr>
<td>NGR 6205</td>
<td>Primary Care Practicum: Adolescents and Women</td>
<td>2-3</td>
<td>NU</td>
<td>NUR</td>
</tr>
<tr>
<td>NGR 6207</td>
<td>Primary Care: Adults</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
</tr>
<tr>
<td>NGR 6207L</td>
<td>Primary Care Practicum: Adults</td>
<td>2-3</td>
<td>NU</td>
<td>NUR</td>
</tr>
</tbody>
</table>

**Examples:**
- Focuses on models of treatment and interventions for clients and families who are in the rehabilitation and maintenance phases of substance abuse. Emphasis will be placed on rehabilitation outcomes for designated populations with consideration for cultural, socioeconomic, political and legal/ethical factors.
- Focuses on pharmacotherapeutics for the advanced practice nurse. Focus on pharmacokinetics, therapeutic and adverse effects, drug interactions, and evidence-based prescribing guidelines.
- Focus on the primary care of adolescents and women. Health promotion, maintenance and the assessment and management of common illness as well as developmental and high-risk behaviors, episodic problems, and childbearing assessment will be included.
- Focus on application of the knowledge gained in the classroom in Primary Care: Adolescents and Women to this patient/client population. Health screening and management of commonly presenting health problems will structure the clinical experiences of this course.
- Focus on the adult patient/client from mid-life to old age related to health promotion, maintenance and prevention of diseases. Including assessment and management of episodic and chronic illness for these individuals in primary care settings including culturally diverse and vulnerable populations.
- Focus on application of the knowledge gained in the classroom in Primary Care: Adults to the patient/client population between mid-life and older adult. Health screening and management of commonly presenting health problems will structure the clinical experience of this course.
<table>
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<tr>
<th>Course Code</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>NGR 6212L</td>
<td>Advanced Practicum in Adult Health</td>
<td>1-9</td>
<td>NU NUR</td>
<td>PR: NGR 6204, or NGR 6206; CI.</td>
<td>Clinical experiences in advanced adult health nursing practice focusing on application of theoretical and conceptual knowledge relative to adults, 13 years of age and older. Minimum 6 hours required (1:6 ratio).</td>
</tr>
<tr>
<td>NGR 6232</td>
<td>Selected Concepts in the Acutely Ill Adult</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: NGR 6140.</td>
<td>This course analyzes the multiple needs of the critically ill adult. Focuses on age specific critically ill population. Examines the response to the experience of critical illness.</td>
</tr>
<tr>
<td>NGR 6243</td>
<td>Clinical Management of the Acutely Ill Adult</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: NGR 6001, NGR 6143, CI.</td>
<td>Focuses on advanced therapeutics and clinical management of selected acute health problems of adults. Diagnostic reasoning and intervention strategies are emphasized.</td>
</tr>
<tr>
<td>NGR 6253L</td>
<td>Gerontology Nursing Practicum I</td>
<td>3-4</td>
<td>NU NUR</td>
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</tr>
<tr>
<td>NGR 6255</td>
<td>Primary Care of Older Adults</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: NGR 6001, NGR 6140, CI.</td>
<td>Emphasis on functional ability of the older adult, normal biological aging, changes, developmental tasks, psychosocial, cultural and spiritual dimensions. Focuses on health promotion, disease prevention and management of acute and chronic illnesses of culturally diverse older adults.</td>
</tr>
<tr>
<td>NGR 6258</td>
<td>Advanced Primary Care of Older Adults</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: NGR 6001, NGR 6140, CI.</td>
<td>Provides in-depth knowledge of: demographic, comparative, and differential aging; geriatric anatomy and physiology; the biological influence on aging psychology; the control of aging sociology; geriatric pharmacology; management of geriatric syndromes; and management of multiple diagnoses.</td>
</tr>
<tr>
<td>NGR 6259</td>
<td>Gerontologic al Nursing Practicum</td>
<td>1-9</td>
<td>NU NUR</td>
<td>PR: NGR 6255, or NGR 6258.</td>
<td>Students will apply gerontological theories and assessment techniques in the advanced care of the elderly (1:4 ratio).</td>
</tr>
<tr>
<td>NGR 6271</td>
<td>Adult Health Management</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: NGR 6205, NGR 6205L, NGR 6207, NGR 6207L</td>
<td>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.</td>
</tr>
<tr>
<td>NGR 6302L</td>
<td>Clinical Practicum: Advanced</td>
<td>1-9</td>
<td>NU NUR</td>
<td>PR: NGR 6001.</td>
<td>Focuses on development of clinical competencies necessary for advanced practice nurse to function</td>
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<tr>
<td>Course Code</td>
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<td>Credits</td>
<td>Units</td>
<td>Notes</td>
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<tr>
<td>NGR 6305</td>
<td>Primary Care: Children</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
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<td></td>
<td>Focus on the primary health care of children from birth to pre-adolescent. Health maintenance and the management of common acute illnesses are included.</td>
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<tr>
<td>NGR 6305L</td>
<td>Primary Care Practicum: Children</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
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<tr>
<td></td>
<td>Focus on application of knowledge gained in the classroom in Primary Care: 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 of this course.</td>
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<tr>
<td>NGR 6371</td>
<td>Child Health Management</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
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<tr>
<td></td>
<td>Focus on primary care of children and adolescents with selected chronic, high risk, and multi-system health conditions. Assessment and management of commonly presenting chronic conditions in children as well as issues of continuity of care, family coping, child development, community resources, ethics and public policy will be examined.</td>
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<tr>
<td>NGR 6500</td>
<td>Theoretical Foundations for Advanced Psychiatric Nursing</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
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<tr>
<td></td>
<td>Theoretical basis for advanced practice in psychiatric nursing. Focus on selected psychodynamic, neuropsychological, development, and systems models of behavior and their impact for nursing practice.</td>
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<tr>
<td>NGR 6500L</td>
<td>Psychiatric APN Practicum: Psychiatric Care Outpatient</td>
<td>1-6</td>
<td>NU</td>
<td>NUR</td>
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<tr>
<td></td>
<td>Clinical experience in advanced psychiatric mental health nursing that focuses on comprehensive mental health assessment, crisis intervention and brief psychotherapy.</td>
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<tr>
<td>NGR 6501</td>
<td>Psychopathology for Advanced Psychiatric Nursing</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
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<tr>
<td></td>
<td>In-depth study of psychosocial, factors contributing to psychosocial dysfunction, and diagnostic reasoning basis to advanced practice psychiatric health nursing, emphasis on etiology and differential diagnoses.</td>
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<tr>
<td>NGR 6501L</td>
<td>Psychiatric APN Practicum: Psychiatric Care in the Inpatient Setting</td>
<td>1-4</td>
<td>NU</td>
<td>NUR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>NGR 6502</td>
<td>Treatment Modalities</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
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<tr>
<td></td>
<td>Examination of treatment modalities for advanced practice psychiatric</td>
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<tr>
<td>Course Code</td>
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<td>Credits</td>
<td>Type</td>
<td>Prerequisite(s)</td>
<td>Description</td>
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<tr>
<td>NGR 6503L</td>
<td>Practicum III: Advanced Psychiatric Mental Health Nursing</td>
<td>3</td>
<td>NU</td>
<td>PR: NGR 6230.</td>
<td>Clinical experience in advanced psychiatric mental health nursing that focuses on individual, group, family, and community interventions with culturally diverse populations.</td>
</tr>
<tr>
<td>NGR 6504</td>
<td>Practicum III: Advanced Psychiatric Mental Health Nursing</td>
<td>3</td>
<td>NU</td>
<td>PR: NGR 6230.</td>
<td>Field experience in a variety of community settings with culturally diverse psychiatric/mental health populations. Emphasis on implementing prevention and intervention strategies with individuals, group, families and communities (1:6 ratio).</td>
</tr>
<tr>
<td>NGR 6511</td>
<td>Geropsychiatric Nursing</td>
<td>3</td>
<td>NU</td>
<td>CI</td>
<td>Focuses on theoretical implications and foundations for providing geropsychiatric nursing care for the elderly who have been diagnosed or have potential emotional/mental problems with emphasis of various therapies in a variety of clinical settings. (CI)</td>
</tr>
<tr>
<td>NGR 6530</td>
<td>Counseling for the Terminally Ill</td>
<td>3</td>
<td>NU</td>
<td>PR: NGR 6140, NUR</td>
<td>Provides specialized psychological and psychosocial content with a focus on the principles and techniques for conducting psychosocial counseling with terminally ill patients.</td>
</tr>
<tr>
<td>NGR 6538</td>
<td>Psychopharmacology</td>
<td>2</td>
<td>NU</td>
<td>PR: NGR 6140, CI</td>
<td>Theoretical basis for psychopharmacological interventions with clients including pharmacokinetics and clinical management.</td>
</tr>
<tr>
<td>NGR 6617</td>
<td>Practicum in Family Centered Nursing</td>
<td>1-6</td>
<td>NU</td>
<td>PR: NGR 6140; NGR 6634; CI.</td>
<td>Focuses on the development of clinical competencies necessary for the advanced practice nurse of function as a family nurse practitioner (1:6 ratio). (CI)</td>
</tr>
<tr>
<td>NGR 6620</td>
<td>Strategies for Community Health Nursing</td>
<td>3</td>
<td>NU</td>
<td>PR: NGR 6140, NGR 6001, CI.</td>
<td>Examines the variables that influence and guide community health nursing practice, and the application of relevant nursing concepts and theories.</td>
</tr>
<tr>
<td>NGR 6634</td>
<td>Primary Care of Child Bearing Families</td>
<td>2</td>
<td>NU</td>
<td>PR: NGR 6140, NGR 6001, CI.</td>
<td>This course focuses on health promotion, health maintenance, differential diagnosis and management of common acute and chronic problems of child bearing families. Emphasis is on the</td>
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<tr>
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<td>Corequisite(s)</td>
<td>Description</td>
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<tr>
<td>NGR 6650</td>
<td>Occupational Health Nursing I</td>
<td>2</td>
<td>NU NUR CI</td>
<td></td>
<td>Specialized knowledge necessary to provide primary care to this population.</td>
</tr>
<tr>
<td>NGR 6650L</td>
<td>Clinical Experiences In Occupational Health Nursing I</td>
<td>1</td>
<td>NU NUR CI</td>
<td></td>
<td>Primary care of the worker relative to health promotion/risk reduction/acute injuries/chronic conditions, assessment of the workplace and needs of worker aggregates, and planning for health services relative to worker lifestyles and risk factors.</td>
</tr>
<tr>
<td>NGR 6651</td>
<td>Occupational Health Nursing II</td>
<td>2</td>
<td>NU NUR</td>
<td></td>
<td>Focuses on the analysis of clinical strategies (e.g. triage, biological monitoring) relevant to advanced occupational health programs, medical surveillance programs, and worker's compensation managed care.</td>
</tr>
<tr>
<td>NGR 6651L</td>
<td>Clinical Experiences in Occupational Health II</td>
<td>1</td>
<td>NU NUR CI</td>
<td></td>
<td>Clinical experiences relative to the application of content in NGR 6650 Occupational Health Nursing II with a focus on workplace assessment utilizing a comprehensive instrument and evaluation of worker's compensation managed care programs.</td>
</tr>
<tr>
<td>NGR 6700</td>
<td>Advanced Practice Nurse Transitions</td>
<td>2</td>
<td>NU NUR</td>
<td>PR: NGR 6001, NGR 6140, NGR 6199. CR: NGR 6700L</td>
<td>The summative process for students to design and develop their roles as an Advanced Practice Nurses (APN). It provides an opportunity for integrating knowledge with clinical skills to support a clinical specialty as well as negotiating and marketing this role in the professional community.</td>
</tr>
<tr>
<td>NGR 6700L</td>
<td>APN Transitions Practicum</td>
<td>2-3</td>
<td>NU NUR</td>
<td>CR: NGR 6700.</td>
<td>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.</td>
</tr>
<tr>
<td>NGR 6710</td>
<td>Principles of Nursing Education</td>
<td>3</td>
<td>NU NUR CI</td>
<td></td>
<td>Focuses on the philosophical, theoretical and evidence-based approaches for the development, implementation, and evaluation of educational programs. Emphasis on</td>
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<tr>
<td>NGR 6723</td>
<td>Applied Management in Nursing and Healthcare</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: CI. Applied management of human and financial resources to achieve quality and enhance healthcare outcomes in nursing. Focus on qualifying processes of care and outcomes using quality improvement approaches and sound management principles.</td>
<td></td>
</tr>
<tr>
<td>NGR 6726</td>
<td>Managing Healthcare Resources</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: CI. Managing human and financial resources to achieve quality outcomes and enhance health care services. Focus on quantifying processes of care and outcomes and on the continuous improvement of quality in health care program delivery.</td>
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<tr>
<td>NGR 6730</td>
<td>Organization Theory and Leadership in Healthcare</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: CI. Rule preparation for the healthcare manager, leader and change agent. Synthesis of concepts from organizational theory and behavior, change management, and principles of healthcare leadership as a basis for role effectiveness.</td>
<td></td>
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<tr>
<td>NGR 6734</td>
<td>Healthcare Systems Leadership Seminar</td>
<td>2</td>
<td>NU NUR</td>
<td>This seminar course provides experiences to analyze theoretical issues in nursing and healthcare leadership roles. Provides an opportunity to integrate leadership and human relationship skills in health systems management.</td>
<td></td>
</tr>
<tr>
<td>NGR 6735</td>
<td>Applied Organizational Theory in Nursing and Healthcare</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: CI. Synthesis of concepts from organizational theory and behavior: change management and principles of healthcare leadership as a basis for effectiveness in nursing management.</td>
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</tr>
<tr>
<td>NGR 6790</td>
<td>Consultation Liaison Nursing</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: Clinical and Theoretical courses for clinical concentration, or CI. Emphasizes evolution of the consultation/liaison role for advanced nurse practitioners with emphasis on the consultation process in a variety of clinical settings.</td>
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<tr>
<td>NGR 6800</td>
<td>Nursing Research</td>
<td>3</td>
<td>NU NUR</td>
<td>CI. Research designs and methods for nursing with primary emphasis on these topics: critique of research studies, searchable problems, research designs, instruments and other data collection methods, approaches to data analyses using computer applications, and</td>
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676
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<th>Department</th>
<th>Pre-requisites</th>
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<tbody>
<tr>
<td>NGR 6821</td>
<td>Applied Analysis for Outcomes Research Using Large Healthcare Databases</td>
<td>3</td>
<td>NU NUR CI</td>
<td>PR: Nursing Majors Only</td>
<td>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.</td>
</tr>
<tr>
<td>NGR 6822</td>
<td>Measurement for Nursing Education and Research</td>
<td>3</td>
<td>NU NUR CI</td>
<td>CI.</td>
<td>Course purposes are to increase skill in measurement of nursing variables as part of the research process, to enhance ability of nurse educators to identify or develop valid and reliable measurement instruments for evaluation of students, clients and educational programs.</td>
</tr>
<tr>
<td>NGR 6824</td>
<td>Data Analysis for Health Sciences</td>
<td>3</td>
<td>NU NUR CI</td>
<td></td>
<td>This course is designed to provide the graduate Student interested in health sciences research with practical experience using SPSS for Windows and Microsoft’s Excel programs to manage, organize, analyze and present both primary and secondary data in biophysical sciences.</td>
</tr>
<tr>
<td>NGR 6872</td>
<td>Clinical Systems Applications and Management</td>
<td>3</td>
<td>NU NUR CI</td>
<td>PR: NGR 5635, ISM 6127</td>
<td>Advanced informatics course with emphasis on application in healthcare informatics and clinical systems in nursing. Focus on design, implementation and analysis of informatics technologies in healthcare, nomenclatures and classification systems, health care documentation, integrated electronic patient records, and web-based technologies patient care and patient safety.</td>
</tr>
<tr>
<td>NGR 6905</td>
<td>Independent Study</td>
<td>1-6</td>
<td>NU NUR CI</td>
<td>CI, S/U.</td>
<td>Specialized individualized study determined by students’ needs and interests; requires an approved contract with a faculty member. (CI)</td>
</tr>
<tr>
<td>NGR 6915</td>
<td>Directed Research</td>
<td>1-3</td>
<td>NU NUR CI</td>
<td>PR: NGR 6800, CI.</td>
<td>Builds on knowledge gained in NGR 6800 and specialty concentration by participating in a research project under the direction of selected faculty. (CI)</td>
</tr>
<tr>
<td>NGR 6930</td>
<td>Research Seminar in Hospice and Palliative</td>
<td>3</td>
<td>NU NUR CI</td>
<td></td>
<td>Focus on analysis of contemporary research issues in palliative care and end of life with special emphasis on design, sampling, statistical analysis</td>
</tr>
</tbody>
</table>

preparation of research proposals for thesis, directed research, or funded research. (CI)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6931</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>NU</td>
<td>NUR CI.</td>
<td>Seminars for the analysis and discussion of selected issues in nursing of topical concern to student and faculty.</td>
</tr>
<tr>
<td>NGR 6944</td>
<td>Practicum in Acute Care Nursing</td>
<td>1-9</td>
<td>NU</td>
<td>NUR PR: NGR 6143, NGR 6333 or NGR 6232, CI.</td>
<td>Clinical experiences in critical care settings focusing on the role of the advanced practice nurse (1:4 ratio).</td>
</tr>
<tr>
<td>NGR 6947</td>
<td>Practicum in Nursing Education</td>
<td>1-4</td>
<td>NU</td>
<td>NUR PR: NGR 6822, NGR 6710, NGR 6712, CI.</td>
<td>Instructional experiences that utilize educational concepts and instructional strategies in a variety of educational settings in nursing. (CI)</td>
</tr>
<tr>
<td>NGR 6947L</td>
<td>Practicum I in Advanced Oncology Nursing Practice</td>
<td>3</td>
<td>NU</td>
<td>NUR PR: NGR 6001, NGR 6096, NGR 6121, NGR 6140, NGR 6142, NGR 6199, NGR 6207, NGR 6800</td>
<td>This course provides clinical experiences in advanced oncology nursing practice with a focus on the application of theoretical and conceptual knowledge and relevant to adults with cancer or at risk for cancer.</td>
</tr>
<tr>
<td>NGR 6948L</td>
<td>Practicum II in Advanced Oncology Nursing</td>
<td>3</td>
<td>NU</td>
<td>NUR PR: NGR 6001, NGR 6096, NGR 6121, NGR 6140, NGR 6142, NGR 6199, NGR 6207, NGR 6800</td>
<td>This course provides clinical experiences in advanced oncology nursing practice with a focus on the application of theoretical and conceptual knowledge and relevant to adults with cancer or at risk for cancer.</td>
</tr>
<tr>
<td>NGR 6949</td>
<td>Oncology Nursing Practicum</td>
<td>1-9</td>
<td>NU</td>
<td>NUR CI.</td>
<td>Requires synthesis of all knowledge and skills acquired earlier in the program. Emphasis is on the role of the oncology nurse specialist, including those of expert clinician, consultant, teacher, researcher and administrator.</td>
</tr>
<tr>
<td>NGR 6949L</td>
<td>Practicum III in Advanced Oncology Nursing Practice</td>
<td>1-9</td>
<td>NU</td>
<td>NUR PR: NGR 6001, NGR 6096, NGR 6121, NGR 6140, NGR 6142, NGR 6199, NGR 6207, NGR 6800</td>
<td>This course provides clinical experiences in advanced oncology nursing practice with a focus on the application of theoretical and conceptual knowledge and relevant to adults with cancer or at risk for cancer.</td>
</tr>
<tr>
<td>NGR 6950</td>
<td>Capstone Course</td>
<td>3</td>
<td>NU</td>
<td>NUR PR: Completion of 50% of academic program, and NGR 6121 and NGR 6800.</td>
<td>This course focuses on the development of a scholarly manuscript of publishable quality to a selected publisher's standards on a topic selected by the student.</td>
</tr>
<tr>
<td>NGR 6971</td>
<td>Thesis</td>
<td>2-19</td>
<td>NU</td>
<td>NUR PR: NGR 6800,</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Department</td>
<td>CRN</td>
<td>Description</td>
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<tr>
<td>NGR 7124</td>
<td>Advances in Nursing Science</td>
<td>3</td>
<td>NU NUR</td>
<td></td>
<td>Focus on history and philosophy of science: history and development of nursing's scientific knowledge base and theoretical progress. Emphasis on 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.</td>
</tr>
<tr>
<td>NGR 7705</td>
<td>Academic Citizenship in Nursing</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: Admission to doctoral program or consent of instructor.</td>
<td>Examine knowledge and skills necessary for an academic role in nursing. Emphasis on models for socialization into an academic role including teaching, research, service and practice. Explore new paradigms and technologies for teaching-learning.</td>
</tr>
<tr>
<td>NGR 7815</td>
<td>Qualitative Research Methods in Nursing</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: NGR 6800.</td>
<td>An overview of qualitative research methods in nursing, identification of problems appropriate for qualitative research methods, and application of appropriate qualitative research methods to a researchable problem.</td>
</tr>
<tr>
<td>NGR 7816</td>
<td>Research Designs and Methods in Nursing</td>
<td>3</td>
<td>NU NUR</td>
<td></td>
<td>Focus on designs used in nursing research to test or develop theoretical models, or concepts, including clinical or outcome variables, or hypotheses. Emphasis on quantitative designs.</td>
</tr>
<tr>
<td>NGR 7823</td>
<td>Psychometrics and Measurement for Nursing Research</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: NGR 7841.</td>
<td>Explores issues in developing, testing, and applying measurement theory in research. Analysis of psychometric properties of instruments and methods appropriate to theoretical and conceptual demands of science.</td>
</tr>
<tr>
<td>NGR 7841</td>
<td>Statistical Methods in Nursing Research I</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: NGR 6800 or equivalent and statistics.</td>
<td>Standard parametric and nonparametric statistical methods in nursing research; role of assumptions and theory in selecting the appropriate statistic for testing hypotheses/research questions. Emphasis on analysis of variance and simple linear regression. Statistical software applications are integrated into the course.</td>
</tr>
<tr>
<td>NGR 7842</td>
<td>Statistical Methods in Nursing Research II</td>
<td>3</td>
<td>NU NUR</td>
<td>PR: NGR 7841.</td>
<td>Focus on advanced multivariate methods in nursing research: regression (linear, multiple, logistic) and multiple analysis of variance (MANOVA) and covariance software applications are integrated into the course.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>College</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>NGR 7910</td>
<td>Concepts in Nursing Practice</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
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</tr>
<tr>
<td>NGR 7911</td>
<td>Esthetics and Ethics in Nursing and Health Care</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td></td>
</tr>
<tr>
<td>NGR 7912</td>
<td>Health Policy Issues in Nursing and Health Care</td>
<td>3</td>
<td>NU</td>
<td>NUR</td>
<td>PR: NGR 7841 and NGR 7842 or CI.</td>
</tr>
<tr>
<td>NGR 7940</td>
<td>Advanced Clinical Research Pro Seminar</td>
<td>1</td>
<td>NU</td>
<td>NUR</td>
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</tr>
<tr>
<td>NGR 7941</td>
<td>Nursing Research Pro Seminar</td>
<td>1-6</td>
<td>NU</td>
<td>NUR</td>
<td>PR: Nursing Knowledge Systems and Issues in Knowledge Dissemination.</td>
</tr>
<tr>
<td>NGR 7980</td>
<td>Dissertation Research</td>
<td>2-6</td>
<td>NU</td>
<td>NUR</td>
<td>PR: Admission to candidacy.</td>
</tr>
<tr>
<td>OCB 6050</td>
<td>Biological Oceanography</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>OCB 6567</td>
<td>Phytoplankton Ecology</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: B.S. in Biology, OCB 6050, or CI.</td>
</tr>
<tr>
<td>OCB 6646</td>
<td>Marine Zoogeography</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: B.S. in Biology, OCB 6050, or CI.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
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<td>MSC</td>
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<tr>
<td>OCB 6666</td>
<td>Ecological Physiology</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
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</tr>
<tr>
<td>OCB 6671</td>
<td>Methods in Biological Oceanography</td>
<td>1</td>
<td>MS</td>
<td>MSC</td>
<td></td>
</tr>
<tr>
<td>OCB 6931C</td>
<td>Special Topics in Ichthyology</td>
<td>1-3</td>
<td>MS</td>
<td>MSC</td>
<td></td>
</tr>
<tr>
<td>OCC 6050</td>
<td>Chemical Oceanography</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td></td>
</tr>
<tr>
<td>OCC 6057</td>
<td>Methods in Chemical Oceanography</td>
<td>1</td>
<td>MS</td>
<td>MSC</td>
<td></td>
</tr>
<tr>
<td>OCC 6067</td>
<td>Marine Pollution</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td></td>
</tr>
<tr>
<td>OCC 6111C</td>
<td>Applications of Gas</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Co-requisites</td>
<td>Description</td>
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<tr>
<td>OCC 6216</td>
<td>Marine Organic Chemistry</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>Distribution and biogeochemical cycling of organic matter in the oceans. Topics include carbohydrates, proteins, lipids, humics, pheromones, interaction with trace metals, isotopic fractionation, microbial alterations, and biochemical tracers.</td>
</tr>
<tr>
<td>OCC 6418</td>
<td>Petroleum Geochemistry</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>An investigation of the geochemical aspects of petroleum generation, migration, accumulation, and maturation. Additional topics include the composition of petroleum, the use of molecular biomarkers to investigate petrochemical and geochemical processes, and petroleum prospecting.</td>
</tr>
<tr>
<td>OCE 6908</td>
<td>Independent Study</td>
<td>1-10</td>
<td>MS</td>
<td>MSC</td>
<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>OCE 6934</td>
<td>Selected Topics in Oceanography</td>
<td>1-3</td>
<td>MS</td>
<td>MSC</td>
<td>Special topics in Biological, Chemical, Geological, and Physical Oceanography.</td>
</tr>
<tr>
<td>OCE 6939</td>
<td>Graduate Seminar in Oceanography</td>
<td>1</td>
<td>MS</td>
<td>MSC</td>
<td>PR: GS. S/U.</td>
</tr>
<tr>
<td>OCE 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>MS</td>
<td>MSC</td>
<td>PR: CC, GR, ML, S/U.</td>
</tr>
<tr>
<td>OCE 6972</td>
<td>Directed Research</td>
<td>1-19</td>
<td>MS</td>
<td>MSC</td>
<td>PR: GR. ML, CI. S/U.</td>
</tr>
<tr>
<td>OCE 7910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>MS</td>
<td>MSC</td>
<td>PR: GR. Ph.D. level, CI. S/U.</td>
</tr>
<tr>
<td>OCE 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>MS</td>
<td>MSC</td>
<td>PR: Admission to Candidacy, CC. S/U</td>
</tr>
<tr>
<td>OCG 6051</td>
<td>Geological Oceanography</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>Marine geology including plate tectonics; coastal, shelf and pelagic sedimentation; geochemical cycling; and sedimentary history of the ocean basins. Lec</td>
</tr>
<tr>
<td>OCG 6075</td>
<td>Methods in Geological Oceanography</td>
<td>1</td>
<td>MS</td>
<td>MSC</td>
<td>PR: OCG 6051 or CI. Description and application of the modern techniques used to investigate Marine Geology and Geophysics.</td>
</tr>
</tbody>
</table>
| OCG 6080    | Plate                                            | 3       | MS   | MSC                                              | An overview of the Plate Tectonic
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>College</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCG 6086</td>
<td>Geology of Continental Margins</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: B.S. in Geology, OCG 6051, or CI.</td>
<td>Analysis of tectonic, structural and stratigraphic development and general geologic history of the major types of continental margins. Includes interpretation of seismic data.</td>
</tr>
<tr>
<td>OCG 6356C</td>
<td>Stratigraphic Interpretation of Seismic Data</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: B.S. in Geology, OCG 6051, or CI.</td>
<td>Study of seismic reflection data for the purpose of determining structural and sedimentological development, facies distribution, and general geological history of stratigraphic packages. Course includes fundamentals of seismic reflection and depositional sequence/seismic facies analyses.</td>
</tr>
<tr>
<td>OCG 6453</td>
<td>Geochemistry of Marine Sediments</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: B.S. in Geology or Geology or CI.</td>
<td>General survey course of the mineralogy, chemical composition, physical properties and origin of marine sediments. Topics include the transport, deposition, and burial diagenesis of organic matter and carbonate, aluminosilicate and silica minerals. Theoretical and practical aspects of x-ray diffraction.</td>
</tr>
<tr>
<td>OCG 6455</td>
<td>Marine Isotope Geochemistry</td>
<td>3</td>
<td>MS</td>
<td>MSC</td>
<td>PR: Chemical Oceanography or CI.</td>
<td>Study of stable and radioactive isotope variations in the marine environment and the use of these variations as tracers and in determining ages, rates and paleoclimatic conditions.</td>
</tr>
<tr>
<td>OCG 6551C</td>
<td>Scanning Electron Microscopy: Theory and Technique</td>
<td>4</td>
<td>MS</td>
<td>MSC</td>
<td>PR: One year Physics and Chemistry or CC. Full time graduate students in the department of Marine Science are not required to obtain an individual permit. All other graduate and undergraduate students should be enrolled.</td>
<td>Theory and practical application of the scanning electron microscope and the energy dispersive X-ray analyzer. Emphasis is on independent operation of the instruments, preparation techniques for specimens, and interpretation of results.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>OCG 6656C</td>
<td>Marine Micropaleontology</td>
<td>3</td>
<td>MS MSC</td>
<td>PR: B.S. in Geology or Biology, OCG 6051, or CI.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>OCG 6664</td>
<td>Paleooceanography</td>
<td>3</td>
<td>MS MSC</td>
<td>PR: OCB 6050, OCC 6050, OCG 6051, and OCP 6050, or CI.</td>
<td>The study of the development of the ocean system through geologic history, including tectonic framework, sea level history, paleoclimatology, paleocirculation within the ocean basins, and the evolution of marine biota.</td>
<td></td>
</tr>
<tr>
<td>OCG 6666</td>
<td>Carbonate Depositional Systems</td>
<td>3</td>
<td>MS MSC</td>
<td>PR: BA in Geology or CI.</td>
<td>In-depth presentation of production, transport, and accumulation of carbonate sediments on platforms and shelves. Characteristics of carbonate sediment type, primary environment controls, and relationships to surrounding facies will be presented. Available to non-majors.</td>
<td></td>
</tr>
<tr>
<td>OCG 6668</td>
<td>Evolution and Ecology of Reefs</td>
<td>3</td>
<td>MS MSC</td>
<td>PR: OCB 6050 and OCG 6051 or CI.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>OCP 6050</td>
<td>Physical Oceanography</td>
<td>3</td>
<td>MS MSC</td>
<td>PR: Diff/int. calculus, General Physics, and GS or CI.</td>
<td>The world ocean including its morphology, physical properties, currents, waves, tides, heat and water budgets, and related topics. Lec.</td>
<td></td>
</tr>
<tr>
<td>ORI 5930</td>
<td>Topics in Performance Genres</td>
<td>3</td>
<td>AS SPE</td>
<td></td>
<td>Variable topics course.</td>
<td></td>
</tr>
<tr>
<td>ORI 6018</td>
<td>Performance Art</td>
<td>3</td>
<td>AS SPE</td>
<td>PR: Graduate Standing.</td>
<td>Explores historical, theoretical, and critical perspectives on performance art in the US.</td>
<td></td>
</tr>
<tr>
<td>ORI 6020</td>
<td>Performing Social Resistance</td>
<td>3</td>
<td>AS SPE</td>
<td>PR: Graduate Standing.</td>
<td>Explores performance as a site of and means for creating social resistance and change.</td>
<td></td>
</tr>
<tr>
<td>ORI 6107</td>
<td>Texts in Performance</td>
<td>3</td>
<td>AS SPE</td>
<td>PR: Graduate Standing.</td>
<td>Explores contemporary literary texts through dramatic analysis, live performance, adaptation and staging strategies.</td>
<td></td>
</tr>
<tr>
<td>ORI 6250</td>
<td>Performance and Technology</td>
<td>3</td>
<td>AS SPE</td>
<td>PR: Graduate Standing.</td>
<td>Explores the relationship between live and mediated performance, the use of media technologies in performance, and the place of live</td>
<td></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Required</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>ORI 6435</td>
<td>Performance as Cultural Study</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Impact of performance and performance forms as cultural communication. The course examines literary, festive, religious, political and social performance in dialogue with culture.</td>
<td></td>
</tr>
<tr>
<td>ORI 6456</td>
<td>Performance Theory</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>A survey of modern and contemporary approaches to performance as constitutive of identity, verbal art, communication, and culture.</td>
<td></td>
</tr>
<tr>
<td>ORI 6506</td>
<td>Performance Criticism</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>ORI 6930</td>
<td>Communication Aesthetics</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>This course examines the historical evolution of the aesthetic dimension of communication as performance in terms of major concepts and theorists from Plato to the present.</td>
<td></td>
</tr>
<tr>
<td>ORI 7930</td>
<td>Seminar in Performance Studies</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Variable topics course.</td>
<td></td>
</tr>
<tr>
<td>PAD 5035</td>
<td>Issues in Public Administration and Public Policy</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Selected issues and topics in Public Administration and Public Policy.</td>
<td></td>
</tr>
<tr>
<td>PAD 5044</td>
<td>Environment of Public Administration</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Examination of the legal, political, and ethical environment in which public managers work.</td>
<td></td>
</tr>
<tr>
<td>PAD 5333</td>
<td>Concepts and Issues in Public Planning</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>Analysis of basic concepts, issues, and strategies of planning, policy determination, collection of information, and decision-making.</td>
<td></td>
</tr>
<tr>
<td>PAD 5605</td>
<td>Administrative Law and Regulation</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>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.</td>
<td></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Level</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PAD 5700</td>
<td>Research Methods in Public Administration</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>This course provides the student with the fundamental skills and knowledge of how research is designed, implemented, analyzed, and utilized in public sector agencies. Available to majors and non-majors.</td>
<td></td>
</tr>
<tr>
<td>PAD 5807</td>
<td>Urban and Local Government Administration</td>
<td>3</td>
<td>AS</td>
<td>PAD GS or Sr.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>PAD 5836</td>
<td>Comparative Public Administration</td>
<td>3</td>
<td>AS</td>
<td>PAD GS or Sr.</td>
<td>How organizations and managers perform within a particular environment, potential impact of innovation, and how service is accomplished in a variety of socio-economic environments.</td>
<td></td>
</tr>
<tr>
<td>PAD 6041</td>
<td>Ethics and Public Service</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>PAD 6056</td>
<td>Practice of Public Management</td>
<td>3</td>
<td>AS</td>
<td>PAD PR: Completion of all MPA core courses and five electives. Must be taken in last semester of coursework.</td>
<td>An integrative course applying the skills, knowledge, and values taught in the core curriculum and applied to public issues or problems.</td>
<td></td>
</tr>
<tr>
<td>PAD 6060</td>
<td>Public Administration Theory</td>
<td>3</td>
<td>AS</td>
<td>PAD GS</td>
<td>Examination of major theoretical and practical developments in public administration with focus on organization theory and current research trends in the field.</td>
<td></td>
</tr>
<tr>
<td>PAD 6105</td>
<td>Public Organizations and Change</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>In-depth coverage of organizational theory and focus with special attention to issues and problems of organizational change and reform in the public sector.</td>
<td></td>
</tr>
<tr>
<td>PAD 6134</td>
<td>Project Management</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
<td>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.</td>
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</tbody>
</table>
| PAD 6207    | Public                                           | 3       | AS    | PAD GS        | Examination of the fiscal
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
<th>Department</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PAD 6208</td>
<td>Financial Oversight for Nonprofit Organizations</td>
<td>3</td>
<td>AS PAD</td>
<td>Introduce the non-financial manager to financial information used to make decisions for nonprofit organizations. Students will learn how to use the principles of financial management to make operating and capital budgeting decisions and to analyze long-term financial options.</td>
</tr>
<tr>
<td>PAD 6222</td>
<td>Issues in Florida--Budgeting and Finance</td>
<td>3</td>
<td>AS PAD</td>
<td>Selected issues in public financial management and budgeting related to state agencies or local governments in Florida.</td>
</tr>
<tr>
<td>PAD 6227</td>
<td>Public Budgeting</td>
<td>3</td>
<td>AS PAD</td>
<td>Development, authorization, execution, and assessment of government budgets. Topics include current trends and issues in budget theory and practice, as well as reform efforts.</td>
</tr>
<tr>
<td>PAD 6275</td>
<td>Political Economy for Public Managers</td>
<td>3</td>
<td>AS PAD</td>
<td>Introduces students to the fundamental concepts, theories, principles and tools used in public sector managerial economics. Students will be using economic concepts and applying economic tools and techniques to address common issues faced by public managers.</td>
</tr>
<tr>
<td>PAD 6307</td>
<td>Policy Analysis, Implementation, and Program Evaluation</td>
<td>3</td>
<td>AS PAD</td>
<td>An introduction to analyzing public problems and program development. Emphasis is placed on the methodological tools for analyzing public problems, and criteria to assess the value of programs in addressing public problems.</td>
</tr>
<tr>
<td>PAD 6335</td>
<td>Strategic Planning for Public and Nonprofit Organizations</td>
<td>3</td>
<td>AS PAD</td>
<td>Emphasizes methods of strategic planning as tools to lead, strengthen, and develop public and nonprofit organizations.</td>
</tr>
<tr>
<td>PAD 6336</td>
<td>Community Development Programs and Strategies</td>
<td>3</td>
<td>AS PAD</td>
<td>Discusses community development principles and practices in historical and contemporary perspectives, federal, state and local initiatives, physical, social, and economic approaches to community development.</td>
</tr>
<tr>
<td>PAD 6338</td>
<td>Urban Land Use and Policy</td>
<td>3</td>
<td>AS PAD</td>
<td>Focuses on the political, economic, and legal environment of urban land development. Examines public</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
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<tr>
<td>PAD 6339</td>
<td>Housing and Public Policy</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
</tr>
<tr>
<td>PAD 6355</td>
<td>Urban Growth Management</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
</tr>
<tr>
<td>PAD 6417</td>
<td>Human Resources Management</td>
<td>3</td>
<td>AS</td>
<td>PAD GS or Sr.</td>
</tr>
<tr>
<td>PAD 6427</td>
<td>Public Sector Labor Relations</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
</tr>
<tr>
<td>PAD 6703</td>
<td>Quantitative Aids for Public Managers</td>
<td>3</td>
<td>AS</td>
<td>PAD PR: PAD 5700</td>
</tr>
<tr>
<td>PAD 6710</td>
<td>Public Information Management</td>
<td>3</td>
<td>AS</td>
<td>PAD</td>
</tr>
<tr>
<td>PAD 6907</td>
<td>Independent Study</td>
<td>1-3</td>
<td>AS</td>
<td>PAD PR: CI. S/U.</td>
</tr>
<tr>
<td>PAD 6909</td>
<td>Problem Report</td>
<td>3</td>
<td>AS</td>
<td>PAD Majors only.</td>
</tr>
<tr>
<td>PAD 6915</td>
<td>Directed</td>
<td>1-3</td>
<td>AS</td>
<td>PAD PR: CI. S/U.</td>
</tr>
<tr>
<td>Code</td>
<td>Course</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PAD 6934</td>
<td>Selected Topics in Public Administration</td>
<td>1-3</td>
<td>PAD</td>
<td>A flexible format to offer specialized courses not available within the regular curriculum.</td>
</tr>
<tr>
<td>PAD 6946</td>
<td>Internship in Public Administration</td>
<td>2-6</td>
<td>PAD PR: CI. Majors only. S/U</td>
<td>Structured learning and work experience in a public agency or non-profit organization.</td>
</tr>
<tr>
<td>PCB 5235</td>
<td>Principles of Immunology</td>
<td>3</td>
<td>BIO PR: PCB 3023 or MCB 3020C, CI.</td>
<td>Course will emphasize the biological principles involved in the vertebrate immune response. It will present the homeostatic, defense, and detrimental aspects of the immune system in terms of basic cellular and molecular mechanisms. Techniques will be described to familiarize the student with the types of immunological tools available to the cellular and molecular biologist.</td>
</tr>
<tr>
<td>PCB 5256</td>
<td>Developmental Biology</td>
<td>5</td>
<td>BIO PR: PCB 3023, CI.</td>
<td>Topics in modern developmental biology to be covered in lecture and through readings so as to gain a working knowledge and understanding of the cellular and molecular mechanisms of cell differentiation in both plants and animals.</td>
</tr>
<tr>
<td>PCB 5307</td>
<td>Limnology</td>
<td>3</td>
<td>BIO PR: PCB 3043, CHM 2046, PHY 2053, CI.</td>
<td>An introduction to the physical, chemical, and biological nature of fresh-water environments. Lec.</td>
</tr>
<tr>
<td>PCB 5307L</td>
<td>Limnology Laboratory</td>
<td>1</td>
<td>BIO PR: CI. CP: PCB 5307.</td>
<td>Laboratory portion of Limnology. Laboratory and field experience in the area of aquatic ecology.</td>
</tr>
<tr>
<td>PCB 5415</td>
<td>Behavioral Ecology</td>
<td>3</td>
<td>BIO PR: PCB 3043 or PCB 4674, CI.</td>
<td>An emphasis on the evolutionary mechanisms that influence an organism's behavioral responses to environmental events. The theoretical framework is presented and analyzed.</td>
</tr>
<tr>
<td>PCB 5525</td>
<td>Molecular Genetics</td>
<td>3</td>
<td>BIO PR: PCB 3063, CI.</td>
<td>Detailed examination of DNA, RNA and protein synthesis; the effects of mutations on proteins, cellular control; selected aspects of viral, bacterial, and fungal genetics.</td>
</tr>
<tr>
<td>PCB 5835</td>
<td>Neurophysiology</td>
<td>3</td>
<td>BIO PR: CI.</td>
<td>A comparative analysis of the physiochemical basis and evolution of nervous systems and sensory mechanisms.</td>
</tr>
<tr>
<td>PCB 5845C</td>
<td>Principles of Neuroscience</td>
<td>4</td>
<td>BIO PR: PCB 4723, CI.</td>
<td>Study of the mammalian brain's structure and function, with an emphasis on the neuroanatomy, neuropharmacology, and</td>
</tr>
</tbody>
</table>
neurophysiology of the human brain. Topics include brain imaging, dementia, and mechanisms of learning/memory. Brain research techniques are also discussed, as are basic neuropathological processes that result in abnormal brain function.

<table>
<thead>
<tr>
<th>PCB</th>
<th>Course</th>
<th>Credits</th>
<th>Hours</th>
<th>Department</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB</td>
<td>Advanced Cell Biology</td>
<td>4</td>
<td>AS</td>
<td>BIO</td>
<td>PR: CI</td>
</tr>
<tr>
<td>PCB</td>
<td>Biological Electron Microscopy</td>
<td>5</td>
<td>AS</td>
<td>BIO</td>
<td>PR: PCB 3023 and CI.</td>
</tr>
<tr>
<td>PCB</td>
<td>Advanced Immunology</td>
<td>4</td>
<td>AS</td>
<td>BIO</td>
<td>PR: CI</td>
</tr>
<tr>
<td>PCB</td>
<td>Cell Signaling</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td></td>
</tr>
<tr>
<td>PCB</td>
<td>Physiological Ecology</td>
<td>4</td>
<td>AS</td>
<td>BIO</td>
<td>PR: CI</td>
</tr>
<tr>
<td>PCB</td>
<td>Chemical Ecology</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>PR: PCB 3043 and CHM 2211.</td>
</tr>
<tr>
<td>PCB</td>
<td>Population Biology</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>PR: GS, CI.</td>
</tr>
<tr>
<td>PCB</td>
<td>Community Ecology</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>PCB</td>
<td>Statistical Ecology</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>PR: CI.</td>
</tr>
</tbody>
</table>

Detailed examination of the structure, function and molecular biology of eukaryotic cells.


Discussion of the basic immune reaction, nature of antigenicity; basic immunological techniques and their use in biological research and the medical sciences. Lec/Lab.

A detailed examination of the cellular, biochemical, and molecular mechanism involved in signal transduction in various eukaryotic organism with emphasis on reviewing recent experimental evidence.

Effect of environmental factors on animal function at the cellular and organ system level with emphasis on control and mechanism.

A broad introduction to the biochemistry of plant and animal interactions. Emphasis on the roles of secondary metabolites such as alkaloids, flavonoids, and terpenes in the complex animal/animal, animal/plant, plant/plant, and plant/microorganism interactions occurring in natural, terrestrial, and aquatic environments.

Introduction to population dynamics with emphasis on the ecological components of growth, competition, and perdition.

In-depth examination of community ecology with emphasis on diversity, stability, trophic structure and the mechanisms which affect how communities are structured.

Introduction to exploratory data analysis in ecology. Techniques for dealing with encountered data are emphasized.
<table>
<thead>
<tr>
<th>PCB</th>
<th>6456C</th>
<th>Biometry</th>
<th>4</th>
<th>AS</th>
<th>BIO</th>
<th>PR: MAC 2241 and MAC 2242, GS.</th>
<th>An introduction to statistical procedures for research in biological sciences. Experimental design, analysis of data, and presentation of results are emphasized. Lec./Dis.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB</td>
<td>6458</td>
<td>Biometry II</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>PR: PCB 6456C.</td>
<td>Fundamental concepts in the design of experiments for biological research. Factorial experiments, multiple regression analyses, analyses of covariance and SAS computer programs are emphasized. Lec/Lab.</td>
</tr>
<tr>
<td>PCB</td>
<td>6920</td>
<td>Advances in Cell and Molecular Biology</td>
<td>1</td>
<td>AS</td>
<td>BIO</td>
<td>PR: PCB 6107 or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>PCB</td>
<td>6933</td>
<td>Seminar In Ecology</td>
<td>1-3</td>
<td>AS</td>
<td>BIO</td>
<td>PR: CI.</td>
<td>A detailed examination of topics in ecology pertaining to individual organisms, populations, communities and/or ecosystems.</td>
</tr>
<tr>
<td>PET</td>
<td>6205</td>
<td>Psycho-Sociological Aspects of Human Movement</td>
<td>3</td>
<td>ED</td>
<td>EDP</td>
<td>DPR.</td>
<td>Psychological and sociological implications of movement to historical and contemporary society. Emphasis on concept, role of movement in society, and values and attitudes.</td>
</tr>
<tr>
<td>PET</td>
<td>6396C</td>
<td>Specialized Study in Bio-Kinetics of Human Movement</td>
<td>1-4</td>
<td>ED</td>
<td>EDP</td>
<td>PR: CI. DPR.</td>
<td>Will provide in-depth study in specific areas related to neurological, physiological, and mechanical principles of human development.</td>
</tr>
<tr>
<td>PET</td>
<td>6419</td>
<td>Clinical Supervision In Physical Education</td>
<td>3</td>
<td>ED</td>
<td>EDP</td>
<td>PR: Florida certificate in physical education, 3 years teaching experience in physical education, principal's recommendation. CI. DPR.</td>
<td>Provides specialized knowledge and skills for effective supervision of interns in physical education including observation and feedback techniques and communication skills.</td>
</tr>
<tr>
<td>PET</td>
<td>6425</td>
<td>Curriculum and Instructional Process in Physical Education</td>
<td>3</td>
<td>ED</td>
<td>EDP</td>
<td>PR: CI.</td>
<td>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.</td>
</tr>
<tr>
<td>PET</td>
<td>6496</td>
<td>Specialized Study In Curriculum And</td>
<td>1-4</td>
<td>ED</td>
<td>EDP</td>
<td>PR: CI. DPR.</td>
<td>Will provide in-depth study in specific areas related to the teaching-learning process of physical education.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>EVD</td>
<td>PR: CI, DPR.</td>
<td>Description</td>
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<tr>
<td>PET 6535C</td>
<td>Instructional Process In Physical Education</td>
<td>3</td>
<td>ED</td>
<td>EDP</td>
<td></td>
<td>Personal assessment of current trends and knowledge in the professional literature. Development of competencies in research review, written and oral communication skills.</td>
<td></td>
</tr>
<tr>
<td>PET 6645</td>
<td>Physical Education for Individuals with Disabilities</td>
<td>4</td>
<td>ED</td>
<td>EDP</td>
<td>DPR.</td>
<td>This course is concerned with the motor development and physical fitness of individuals with mental and motor related disabling conditions. Study includes psycho-educational characteristics; planning, conducting, and evaluating individualized programs of physical education; and review of relevant literature. Clinical fieldwork is required.</td>
<td></td>
</tr>
<tr>
<td>PET 6695C</td>
<td>Physical Education for the Handicapped Practicum</td>
<td>2-4</td>
<td>ED</td>
<td>EDP</td>
<td></td>
<td>School or treatment center-based experience providing evaluation and instructional services. Seminars are conducted to discuss professional literature, teaching strategies, and curriculum organization and evaluation.</td>
<td></td>
</tr>
<tr>
<td>PET 6906</td>
<td>Independent Study: Professional Physical Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDP</td>
<td>S/U. PR: CI, DPR.</td>
<td>Independent study. Students must have a contract with an instructor.</td>
<td></td>
</tr>
<tr>
<td>PET 6910L</td>
<td>Research Project in Physical Education</td>
<td>1-4</td>
<td>ED</td>
<td>EDP</td>
<td>PR: CI, DPR.</td>
<td>In-depth research study of selected topics concerning human movement. Topics will vary according to needs and interests of student.</td>
<td></td>
</tr>
<tr>
<td>PGY 5425C</td>
<td>Art Photography III</td>
<td>4</td>
<td>VP</td>
<td>ART</td>
<td>PR: CI.</td>
<td>Advanced work in photography and related media leading to development of personal/expressive statements.</td>
<td></td>
</tr>
<tr>
<td>PGY 6108C</td>
<td>Photography</td>
<td>4</td>
<td>VP</td>
<td>ART</td>
<td>PR: CI. Registration by contract only.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHC 6000</td>
<td>Epidemiology</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: CI.</td>
<td>Study of epidemiological methods to evaluate the patterns and determinants of health and diseases in populations.</td>
<td></td>
</tr>
<tr>
<td>PHC 6006</td>
<td>Epidemiology of Diseases of Major Public Health Importance</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: PHC 6000, PHC 6050, and CI.</td>
<td>A study of the distribution and determinants of specific infectious and non-infectious human diseases of public health importance using epidemiological methods.</td>
<td></td>
</tr>
<tr>
<td>PHC 6007</td>
<td>Cancer</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: PHC 6000</td>
<td>The course will consider the extent of...</td>
<td></td>
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<tr>
<td>Course Code</td>
<td>Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHC 6008</td>
<td>Cardiovascular Disease Epidemiology</td>
<td>3</td>
<td>PH EPB PR: PHC 6000 or CI.</td>
<td>A review of the major issues in cardiovascular disease epidemiology, including trends, the extent of the disease nationally and internationally, implications of major epidemiological studies, and strategies for prevention.</td>
<td></td>
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<tr>
<td>PHC 6017</td>
<td>Design and Conduct of Clinical Trials</td>
<td>3</td>
<td>PH EPB PR: PHC 6050, PHC 6000 and CI.</td>
<td>The course will familiarize students with the issues in the design and conduct of clinical trials. Factors involved in organizing a trial, randomizing subjects, implementation, and analyzing data from the study will be considered.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHC 6050</td>
<td>Biostatistics I</td>
<td>3</td>
<td>PH EPB PR: College Algebra or CI.</td>
<td>Concepts, principles, and methods of statistics applied to public health issues.</td>
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<tr>
<td>PHC 6051</td>
<td>Biostatistics II</td>
<td>3</td>
<td>PH EPB PR: PHC 6000 and PHC 6050 or CI.</td>
<td>Intermediate level statistical methods appropriate for health and epidemiological studies. Emphasis on 2x2 tables, analysis of variance, multiple linear regression, methods of survival analysis, logistic regression, and Cox regression.</td>
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<tr>
<td>PHC 6053</td>
<td>Categorical Data Analysis</td>
<td>3</td>
<td>PH EPB PR: PHC 6051 or CI.</td>
<td>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.</td>
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<tr>
<td>PHC 6057</td>
<td>Biostatistical Inference I</td>
<td>3</td>
<td>PH EPB PR: Undergraduate Calculus or Equivalent</td>
<td>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.</td>
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<tr>
<td>PHC 6060</td>
<td>Biostatistical Case Studies and Consulting I</td>
<td>3</td>
<td>PH EPB PR: Entry into the Biostatistics Doctoral Program or CI.</td>
<td>This course provides hands on experience in biostatistical consulting. Biostatistical methods and computer skills are presented, along with the skills required for participating in collaborative and consultative research roles. A Foundation for biostatistical consultation is presented, involving</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>College</td>
<td>Program Requirement</td>
<td>Description</td>
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<tr>
<td>PHC 6061</td>
<td>Biostatistical Case Studies and Consulting II</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>This course prepares students to join an active biostatistical analyst of a multidisciplinary research group. 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.</td>
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<tr>
<td>PHC 6101</td>
<td>Health Care Organizations</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>This course presents an overview of principles in the design and structure of health care organizations and their relationship to the regulatory environment at the federal, state, and local levels.</td>
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<tr>
<td>PHC 6102</td>
<td>Principles of Health Policy and Management</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>General principles of planning, management, evaluation, and behavior of public and private health care organizations at the local, state, and national levels.</td>
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</tr>
<tr>
<td>PHC 6104</td>
<td>Management of Public Health Programs</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>Application of principles and methods for organization and management of government and non-government public health programs.</td>
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<tr>
<td>PHC 6110</td>
<td>International Health and Health Care Systems</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>Study of global health problems and trends, translated to needs and demands; socio-economic and political impact on health delivery; prevailing international systems compared to U.S. system; the role of international health agencies.</td>
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<tr>
<td>PHC 6111</td>
<td>Global Primary Health Care Strategies</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>Addresses the rationale, planning and implementation of primary health care programs from an international perspective. Emphasis is given to primary care as an integral part of a health care system and an essential component of public health.</td>
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</tr>
<tr>
<td>PHC 6116</td>
<td>International Health Education</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>This travel abroad course compares the practice and venues of health education as they occur in another country with those in the United States.</td>
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</tbody>
</table>

The goals, content, conduct and presentation of Biostatisticians working in applied health settings. Students apply these principles to at least one consultative project and one collaborative project.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Pre-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6120</td>
<td>Community Partnerships and Advocacy</td>
<td>3</td>
<td>PH CFH</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>PHC 6146</td>
<td>Health Services Planning and Evaluation</td>
<td>3</td>
<td>PH HPM</td>
<td>PR: PHC 6050 or CI.</td>
</tr>
<tr>
<td></td>
<td>Study of health services planning concepts/methods, and evaluation, with an emphasis on facilities and manpower planning, providing an in-depth orientation to information requirements for health planning, and methods to cover gaps of information.</td>
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<tr>
<td>PHC 6147</td>
<td>Managing Quality in Health Care</td>
<td>3</td>
<td>PH HPM</td>
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<tr>
<td></td>
<td>Study of methods and tools for managing quality in health care. The developments in applications of quality assurance, utilization review, continuous quality improvement, and total quality management in health services including hospitals, managed care, and public health.</td>
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<tr>
<td>PHC 6148</td>
<td>Strategic Planning and Health Care Marketing</td>
<td>3</td>
<td>PH HPM</td>
<td>PR: PHC 6102 or CI.</td>
</tr>
<tr>
<td></td>
<td>The course reviews the fundamental steps in the strategic planning process and marketing approaches for health care organizations. The textbook and exercises emphasize non-profit organizations.</td>
<td></td>
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</tr>
<tr>
<td>PHC 6150</td>
<td>Health Policy Analysis</td>
<td>3</td>
<td>PH HPM</td>
<td>PR: PHC 6102 or CI.</td>
</tr>
<tr>
<td></td>
<td>A detailed study of policies, policy making, and policy analysis in health services and their relationship to health planning, management, and health care delivery.</td>
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</tr>
<tr>
<td>PHC 6151</td>
<td>Health Policy and Politics</td>
<td>3</td>
<td>PH HPM</td>
<td>PR: PHC 6102 or CI.</td>
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<tr>
<td></td>
<td>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</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>PHC 6158</td>
<td>Managed Care</td>
<td>3</td>
<td>PH HPM</td>
<td></td>
</tr>
<tr>
<td>PHC 6160</td>
<td>Health Care Financial Management</td>
<td>3</td>
<td>PH HPM</td>
<td>PR: At least one undergraduate course in Financial or Managerial Accounting and PHC 6102 or CI.</td>
</tr>
<tr>
<td>PHC 6161</td>
<td>Health Care Finance Applications</td>
<td>3</td>
<td>PH HPM</td>
<td>PR: PHC 6102 or CI.</td>
</tr>
<tr>
<td>PHC 6180</td>
<td>Health Services Management</td>
<td>3</td>
<td>PH HPM</td>
<td>PR: PHC 6102 and undergraduate accounting course or CI.</td>
</tr>
<tr>
<td>PHC 6181</td>
<td>Organizational Behavior in Health Services</td>
<td>3</td>
<td>PH HPM</td>
<td>PR: PHC 6102 or CI.</td>
</tr>
<tr>
<td>PHC 6182</td>
<td>Overview of United States and International Emergency/Disaster Management</td>
<td>3</td>
<td>PH EOH</td>
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</tr>
<tr>
<td>PHC 6184</td>
<td>Emergency/Disaster Recovery</td>
<td>3</td>
<td>PH EOH</td>
<td>PR: PHC 6182</td>
</tr>
<tr>
<td>PHC 6185</td>
<td>Emergency/Disaster Preparedness and Planning</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
</tr>
<tr>
<td>PHC 6186</td>
<td>Public Health Emergencies in Large Populations (PHLEP)</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
</tr>
<tr>
<td>PHC 6191</td>
<td>Quantitative Analysis in Health Care Management</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
</tr>
<tr>
<td>PHC 6193</td>
<td>Qualitative Methods in Community Health Research</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
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</tbody>
</table>

Operations, 2) recovery planning and response to a disaster environment, especially in terms of major disaster incidents, 3) broadening and enhancing the understanding of roles and responsibilities, and 4) the importance to the overall recovery effort. In addition to the United States and international focus, the course also addresses the coordination and problem solving aspects of disaster operations.

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.

To develop or improve the skills of persons interested in providing emergency health services in humanitarian emergencies. The course is divided into two parts: 1) meeting health needs for large populations and 2) the humanitarian and ethical issues of refugees and displaced people. Topics covered include food and nutrition, water and sanitation, providing health services, reproductive health, control of communicable diseases, humanitarian law, human rights, ethics, and the geopolitical issues related to population displacement particularly from conflict.

This course examines the use of quantitative modeling in the management of health care organizations. Emphasis is given to the application of standard modeling techniques to operational problems in health and medical care settings.

This course provides classroom instruction and field application of qualitative research methods for studying community health problems. It provides a general
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Program Required</th>
<th>Course Description</th>
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</thead>
<tbody>
<tr>
<td>PHC 6196</td>
<td>Information Systems in Health Care Management</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>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.</td>
</tr>
<tr>
<td>PHC 6197</td>
<td>Community Health Data Sources and Technology</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>The course is designed to prepare students to analyze and design information systems in health services organizations.</td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>The purpose of this course is to provide experience in the management and analysis of data sets relevant to public health. Among the data sets considered are vital statistics, health care utilization databases, practitioner and other registries, periodic surveys, selected surveillance systems, and programmatic data.</td>
</tr>
<tr>
<td>PHC 6301</td>
<td>Analysis of Water and Wastewater</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
<td>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. PR: Biostatistics Epidemiology, or CI.</td>
</tr>
<tr>
<td>PHC 6302</td>
<td>Municipal Sanitation</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
<td>A study of environmental sanitation activities, programs, and issues of local government.</td>
</tr>
<tr>
<td>PHC 6303</td>
<td>Community Air Pollution</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
<td>A study of air pollutants. Emphasis is given to sources and control technologies as well as health effects and environmental impact.</td>
</tr>
<tr>
<td>PHC 6304</td>
<td>Environmental Health Microbiology</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
<td>Techniques for isolation and enumeration of microorganisms of health significance from food and aquatic sources.</td>
</tr>
<tr>
<td>PHC 6305</td>
<td>Chemical</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
<td>Techniques used in quantitative and analysis of chemical pollutants, 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.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHC 6306</td>
<td>Radiation Health Principles</td>
<td>2</td>
<td>PH EOH</td>
<td>PR: CI</td>
<td>An analysis of the basic concepts of radiation and the protection of individuals and population groups from ionizing and non-ionizing radiation as well as establishing relationships between radiation exposure and biological damage.</td>
</tr>
<tr>
<td>PHC 6310</td>
<td>Environmental Occupational Toxicology</td>
<td>3</td>
<td>PH EOH</td>
<td>PR: CI</td>
<td>A study of the nature of industrial and environmental toxins and toxic by-products, generated and distributed, leading to disease, disability, or death, and the control measures available. Lecture and appropriate laboratory methods are used.</td>
</tr>
<tr>
<td>PHC 6312</td>
<td>Environmental Fate of Chemical Releases</td>
<td>3</td>
<td>PH EOH</td>
<td>PR: CHM 2046, PHY 2054, MAC 2312 or CI</td>
<td>Provides an understanding of the environmental and physico-chemical factors involved in the transport, transformation, and fate of compounds released to the environment. Material covered includes sources of chemical releases as well as the factors affecting the distribution and transformation of chemicals. Routes of exposure and accumulation by humans and other organisms will also be evaluated.</td>
</tr>
<tr>
<td>PHC 6314</td>
<td>Infection Control Program Design</td>
<td>3</td>
<td>PH EOH</td>
<td>PR: CI</td>
<td>This course will review educational program design for health care workers, instructional methods, personnel and financial resource management, role of Infection Control (IC) personnel, development of goals, mission statement, action plans for IC, evaluation of programs, communication with administration, physicians and care givers.</td>
</tr>
<tr>
<td>PHC 6315</td>
<td>Infectious Disease Prevention Strategies</td>
<td>3</td>
<td>PH EOH</td>
<td>PR: CI</td>
<td>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, antisepsis and sterilization; role of immunization, antimicrobial prophylaxis and therapy.</td>
</tr>
<tr>
<td>PHC 6317</td>
<td>Biological</td>
<td>2</td>
<td>PH EOH</td>
<td>PR: CHM</td>
<td>This public health course will qualitative chemical analyses for determining water quality.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
<td>Instructor</td>
<td>Prerequisite(s)</td>
<td>Description</td>
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<tr>
<td>PHC 6350</td>
<td>Occupational Health Risk Assessment</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: PHC 6050 or CI.</td>
</tr>
<tr>
<td>PHC 6351</td>
<td>Occupational Medicine for Health Professionals</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>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.</td>
</tr>
<tr>
<td>PHC 6353</td>
<td>Environmental Risk Assessment</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>PHC 6354</td>
<td>Safety and Health Administration</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>A study of techniques and administrative practices which are instrumental in the initiation and maintenance of programs and procedures that are geared to prevent and reduce work related injuries, illnesses, and discomfort.</td>
</tr>
<tr>
<td>PHC 6356</td>
<td>Industrial Hygiene</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>PHC 6357</td>
<td>Environmental and Occupational Health</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
<td>The study of major environmental and occupational factors that contribute to development of health problems in industrialized and developed countries.</td>
</tr>
<tr>
<td>PHC 6358C</td>
<td>Industrial Hygiene--Physical Agents</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: PHC 6356 and 1 year college physics or CI.</td>
</tr>
<tr>
<td>PHC 6359</td>
<td>Xenobiotic Metabolism</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
<td>Study of enzymes involved in biotransformation of foreign agents.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>PH</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHC 6360</td>
<td>Safety Management Principles and Practices</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>PHC 6361</td>
<td>Industrial Ergonomics</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: PHC 6360 or CI.</td>
</tr>
<tr>
<td>PHC 6362</td>
<td>Industrial Ventilation</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: PHC 6356 or CI.</td>
</tr>
<tr>
<td>PHC 6364</td>
<td>Industrial Hygiene Aspects of Plant Operations</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: PHC 6356 or CI.</td>
</tr>
<tr>
<td>PHC 6365C</td>
<td>Analytical Methods in Industrial Hygiene I</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: PHC 6356 or CI.</td>
</tr>
<tr>
<td>PHC 6366C</td>
<td>Analytical Methods in Industrial Hygiene II</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: PHC 6356 or CI.</td>
</tr>
<tr>
<td>PHC 6367</td>
<td>Control Aspects of</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: PHC 6356, PHC 6358.</td>
</tr>
<tr>
<td>PHC 6368</td>
<td>Industrial Toxicology</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>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.</td>
</tr>
<tr>
<td>PHC 6371</td>
<td>Air Dispersion Modeling for Regulatory Compliance</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
<td>A study of air pollution meteorology (atmospheric energy balance, inversions and winds), micrometeorology (atmospheric fluid mechanics, turbulence, winds, stability classes, convective boundary layer) and atmospheric diffusion (different theories, Gaussian plume equation, air quality models, atmospheric removal processes), supported by a computer laboratory.</td>
</tr>
<tr>
<td>PHC 6401</td>
<td>Homelessness: Implications for Behavioral Healthcare</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>A study of the structural, personal, treatment, and sociopolitical issues related to homelessness. Causes of homelessness from structural and personal factors are explored. Quantitative and qualitative data are reviewed to examine the experience of homelessness, pathways into homelessness including mental health, substance abuse, and violence/trauma. A special focus will be on the research conducted by the instructors on services for homeless families and the prevention of homelessness among individuals with severe mental illness.</td>
</tr>
</tbody>
</table>
| PHC 6410 | Social And | 3 | PH | CFH | A review of the conceptual,
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6411</td>
<td>Introduction to Social Marketing for Public Health</td>
<td>3</td>
<td>PH CFH</td>
<td>PR: CI</td>
<td>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.</td>
</tr>
<tr>
<td>PHC 6413</td>
<td>Family and Community Violence in Public Health</td>
<td>3</td>
<td>PH CFH</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>PHC 6414</td>
<td>Adolescent Health</td>
<td>3</td>
<td>PH CFH</td>
<td></td>
<td>The purpose of this course is to provide an overview of adolescent health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions with adolescents and the skills needed for effective teaching methodologies to enhance health provider communication with adolescents. This course is not restricted to Public Health graduate students.</td>
</tr>
<tr>
<td>PHC 6418</td>
<td>Public Health and Aging</td>
<td>3</td>
<td>PH CFH</td>
<td></td>
<td>A study of specific health promotion and disease prevention strategies for older adults in the context of community health, immunizations, nutrition, exercise, and stress management. Also management for chronic disease, delay of disabilities, and types of long term care deliver and settings are examined.</td>
</tr>
<tr>
<td>PHC 6419</td>
<td>Global Issues in Community and Family Health</td>
<td>3</td>
<td>PH CFH</td>
<td></td>
<td>This course provides an overview of current public health issues and problems affecting communities and families around the world. A comparative approach is taken to highlight similarities and differences across countries at variable levels of socioeconomic development. Problems are addressed in terms of etiology, impact and intervention strategies. Reg. Permit Required. CI.</td>
</tr>
<tr>
<td>PHC 6420</td>
<td>Health Care Law,</td>
<td>3</td>
<td>PH CFH</td>
<td></td>
<td>This is a survey course of the most significant issues in health care law.</td>
</tr>
</tbody>
</table>
Core topics include licensure, malpractice, reproductive issues, the right to die, and managed care. Students will develop an 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Division</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6422</td>
<td>Environmental Health Law</td>
<td>2</td>
<td>PH</td>
<td>EOH</td>
<td>PR: EOH 6357.</td>
<td>Review and analysis of Federal and State laws and regulations in relation to the pollution, regulation and protection of the air, water, and environment issues in general.</td>
</tr>
<tr>
<td>PHC 6430</td>
<td>Health Economics I</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>PR: ECO 2023 or equiv. and CI.</td>
<td>Microeconomic analysis of the structure of the health care industry and economic incentives facing physicians, patients, and hospitals.</td>
</tr>
<tr>
<td>PHC 6433</td>
<td>Health Economics II</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>PR: PHC 6430 or CI.</td>
<td>Second of a two part sequence surveying various applications of economic principles and methods to current issues in public health. Emphasis on efficiency goals of health care policy and the use of economic analysis in the design of such policy.</td>
</tr>
<tr>
<td>PHC 6435</td>
<td>Economics of Health Insurance</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>PR: PHC 6430 or CI.</td>
<td>Presents an overview of major health insurance issues, including demand, supply, employment based coverage, the uninsured, government sponsored programs, managed care, and national health. The analysis will be based on microeconomic tools and is intended for management or policy oriented students with an interest in health insurance and managed care.</td>
</tr>
<tr>
<td>PHC 6441</td>
<td>Social Determinants of Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: PHC 6410.</td>
<td>The course provides students with a basic understanding of our society's most pervasive social disparities in health status and prepares students to evaluate underlying theories and promising interventions related to social determinants of health.</td>
</tr>
<tr>
<td>PHC 6482</td>
<td>Overview of United States and International Emergency/Disaster Management</td>
<td>3</td>
<td>PH</td>
<td>EOH</td>
<td></td>
<td>Public Health and other professionals will be given an overview of the disaster management process. The course provides terms, definitions, and concepts of emergency management from a local, national, and international perspective.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Categories</td>
<td>CIP Code</td>
<td>Program</td>
<td>Grade Requirement</td>
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<tr>
<td>PHC 6500</td>
<td>Foundations of Health Education</td>
<td>3</td>
<td>PH CFH</td>
<td>PR: CI.</td>
<td>6500</td>
<td>PHC 6500 or CI.</td>
</tr>
<tr>
<td>PHC 6505</td>
<td>Health Education Program Planning</td>
<td>3</td>
<td>PH CFH</td>
<td>PR: PHC 6500 or CI.</td>
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<tr>
<td>PHC 6506</td>
<td>Community Health Education</td>
<td>3</td>
<td>PH CFH</td>
<td>PR: PHC 6500 or CI.</td>
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<tr>
<td>PHC 6507</td>
<td>Health Education Methods</td>
<td>3</td>
<td>PH CFH</td>
<td>PR: PHC 6500 or CI.</td>
<td></td>
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<tr>
<td>PHC 6508</td>
<td>Case Studies in Health Education</td>
<td>3</td>
<td>PH CFH</td>
<td>PR: PHC 6500, 30 hours toward MPH, or CI.</td>
<td></td>
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<tr>
<td>PHC 6510</td>
<td>Exotic and Infectious Disease</td>
<td>3</td>
<td>PH EOH</td>
<td>PR: CI.</td>
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<tr>
<td>PHC 6511</td>
<td>Tropical Health Immunology</td>
<td>3</td>
<td>PH EOH</td>
<td>PR: CI.</td>
<td></td>
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<tr>
<td>PHC 6512</td>
<td>Vectors of Human Disease</td>
<td>3</td>
<td>PH EOH</td>
<td>PR: CI.</td>
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<tr>
<td>PHC 6513</td>
<td>Public Health Parasitology</td>
<td>3</td>
<td>PH EOH</td>
<td>PR: CI.</td>
<td></td>
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<tr>
<td>PHC 6514</td>
<td>Infectious</td>
<td>3</td>
<td>PH EOH</td>
<td>PR: PHC 6000.</td>
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<tr>
<td>PHC</td>
<td>6521</td>
<td>Disease Control in Developing Countries</td>
<td>3 PH CFH</td>
<td>PR: CI.</td>
<td>An analysis of nutritional issues concerned with health and disease. Biological and social interactions are studied as they relate to the development, monitoring, and evaluation of community nutrition intervention programs.</td>
<td></td>
</tr>
<tr>
<td>PHC</td>
<td>6522</td>
<td>The Biological Role of Nutrition in Health</td>
<td>3 PH CFH</td>
<td>PR: HUN 2201, ZOO 3713C, PCB 4723, BCH 3023, or CI.</td>
<td>Advanced study of the biochemical and physiological roles of nutrition in health and disease.</td>
<td></td>
</tr>
<tr>
<td>PHC</td>
<td>6523</td>
<td>Policies and Practices in Maternal and Child Nutrition</td>
<td>3 PH CFH</td>
<td>PR: CI.</td>
<td>Study of nutrition policies and practices in maternal and child health from pregnancy through the preschool years. Focus on issues concerned with risk identification, interventions and outcome evaluations.</td>
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</tr>
<tr>
<td>PHC</td>
<td>6524</td>
<td>Public Health Nutrition for the Adult and Aging Population</td>
<td>3 PH CFH</td>
<td>PR: PHC 6521, PHC 6522, or CI.</td>
<td>Study of policies and practices of nutrition in health promotion and disease prevention in adults. Focus on issues concerned with risk identification, nutrition interventions and outcome evaluations.</td>
<td></td>
</tr>
<tr>
<td>PHC</td>
<td>6526</td>
<td>Nutrition Assessment of Individuals and Communities</td>
<td>3 PH CFH</td>
<td>PR: PHC 6521, PHC 6522, or CI.</td>
<td>Comparative study of anthropometric, biochemical, dietary, clinical and socioeconomic indicators of nutritional status including the differential use of these indicators for individuals and communities.</td>
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</tr>
<tr>
<td>PHC</td>
<td>6527</td>
<td>Case Studies in Public Health Nutrition</td>
<td>3 PH CFH</td>
<td>PR: CI.</td>
<td>Capstone course intended to provide a unifying opportunity to utilize concepts, principles and skills learned from other public health nutrition courses.</td>
<td></td>
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<tr>
<td>PHC</td>
<td>6530</td>
<td>Maternal and Child Health I: Issues and Concepts</td>
<td>3 PH CFH</td>
<td>PR: CI.</td>
<td>The purpose of this course is to provide for the foundation of Maternal and Child health for students who will be concentrating in this area, or as an overview for non-majors.</td>
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<tr>
<td>PHC</td>
<td>6531</td>
<td>Health Programs for Children with Special Needs</td>
<td>3 PH CFH</td>
<td>PR: CI.</td>
<td>A study of causative factors, characteristics, care needs and programs for handicapped children with emphasis on health and health care issues.</td>
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<tr>
<td>PHC 6532</td>
<td>Women's Health Issues in Public Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: CI.</td>
<td>A public health orientation of women's health needs with their impact on society, family, and children.</td>
</tr>
<tr>
<td>PHC 6533</td>
<td>Health Program Development and Change Process</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: CI.</td>
<td>A study of approaches to program development, implementation and management of change process in maternal and child health.</td>
</tr>
<tr>
<td>PHC 6534</td>
<td>Cultural Competency in Children's Mental Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: Graduate Status</td>
<td>The course will explore the need of cultural competence in provision of mental health services in a multicultural society. The course will examine culture and ethnicity, multiculturalism, and intercultural communication. The course will define cultural competence from the perspective of the current different approaches to the concept, and examine cultural competence at both mental health systems and service provision levels. Case studies of how cultural competence is implemented by different mental health organizations will be examined.</td>
</tr>
<tr>
<td>PHC 6535</td>
<td>International Maternal and Child Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: CI.</td>
<td>The course examines current priorities for improving the health of mothers and children in developing countries. The emphasis is on understanding MCH issues within the larger context of primary health care and sociocultural factors which influence behavior.</td>
</tr>
<tr>
<td>PHC 6536</td>
<td>Population and Community Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: PHC 6410 or CI.</td>
<td>Population information and applications in health programs. Topics include: population growth and decline, structure, distribution, fertility, morbidity and mortality, and migration as applied to maternal, child and community health.</td>
</tr>
<tr>
<td>PHC 6537</td>
<td>Maternal And Child Health II: Case Studies in MCH Programs, Policies and Research</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: PHC 6530, PH Core Courses, or CI.</td>
<td>Capstone course intended to provide unifying opportunity to utilize concepts, principles, and skills learned in other MCH and public health courses.</td>
</tr>
<tr>
<td>PHC 6540</td>
<td>Public Mental Health</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>PR: CI.</td>
<td>Current state of community mental health emphasizing history and future of the movement and involvement of public agencies; methods, goals, evaluation of</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Program</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHC 6541</td>
<td>Public Mental Health Administration</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>General principles of management theory, methods, administrative processes, and organizational structure of public and private mental health organization in hospital and ambulatory care settings.</td>
<td></td>
</tr>
<tr>
<td>PHC 6542</td>
<td>Epidemiology of Mental Disorders</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>A study of the factors that determine the frequency and distribution of mental disorders in human populations. Menal health intervention strategies also will be explored.</td>
<td></td>
</tr>
<tr>
<td>PHC 6543</td>
<td>Foundations in Behavioral Health Systems</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>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 &amp; 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.</td>
<td></td>
</tr>
<tr>
<td>PHC 6544</td>
<td>Children’s Mental Health Services</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>The content of this course is designed to prepare professionals to work in partnership with families and other professionals and participate in interdisciplinary teams in a variety of settings to meet the needs of children with mental health problems.</td>
<td></td>
</tr>
<tr>
<td>PHC 6545</td>
<td>Evaluation in Mental Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>A study of the theories and practical approaches to the development of evaluative methods for behavioral health.</td>
<td></td>
</tr>
<tr>
<td>PHC 6547</td>
<td>Case Management in Community Mental Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>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 treatment, funding and administration of programs.</td>
<td></td>
</tr>
<tr>
<td>PHC</td>
<td>6548</td>
<td>Grant Writing in Mental Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: Graduate Status</td>
</tr>
<tr>
<td>PHC</td>
<td>6549</td>
<td>HIV and Mental Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: Graduate Status</td>
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<tr>
<td>PHC</td>
<td>6550</td>
<td>Community-Based Prevention in Behavioral Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: Graduate Status</td>
</tr>
<tr>
<td>PHC</td>
<td>6562</td>
<td>Microbiology for Healthcare Workers</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: BSC 2010, BSC 2011, CHM 2046, or CI.</td>
</tr>
<tr>
<td>PHC</td>
<td>6590</td>
<td>Reproductive Health Trends And</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: CI.</td>
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<tr>
<td>Course Code</td>
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<td>PH</td>
<td>EPB/CFH</td>
<td>PR:</td>
<td>Description</td>
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<tr>
<td>PHC 6700</td>
<td>Research Methods in Epidemiology</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: PHC 6000, PHC 6050 and CI.</td>
<td>Planning, execution, analysis and intervention of epidemiological studies.</td>
</tr>
<tr>
<td>PHC 6701</td>
<td>Computer Applications for Public Health Researchers</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: CI.</td>
<td>Course covers essential computer-based techniques for a public health researcher; data entry, editing, management, subsample selection, and data encryption for confidentiality are all covered. SAS is used extensively. Course open to all graduate students.</td>
</tr>
<tr>
<td>PHC 6705</td>
<td>Formative Research Methods in Social Marketing</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: Introduction to Social Marketing</td>
<td>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.</td>
</tr>
<tr>
<td>PHC 6706</td>
<td>Focus Group Research Strategies</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td></td>
<td>This course is an intensive overview of focus group procedures in the public health environment. Attention will be placed on question development, moderator skills, analysis strategies and planning critical logistical details of focus group interviews, and analyzing results of focus group interviews. The course will examine unique methodological characteristics of focus group interviews, identify emerging trends, and explore areas of appropriate and inappropriate use.</td>
</tr>
<tr>
<td>PHC 6707</td>
<td>Evaluative Approaches to Community and Family Health Education Programs</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: PHC 6500 and PHC 6505 or PHC 6530 or CI.</td>
<td>Examination of research and evaluation issues in health education. Includes methods for designing studies in schools and other educational settings in the community.</td>
</tr>
<tr>
<td>PHC 6712</td>
<td>Air Pollution Research</td>
<td>1</td>
<td>PH</td>
<td>CFH</td>
<td></td>
<td>This seminar course is designed to facilitate communication, sharpen</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
<td>Type</td>
<td>Department</td>
<td>Co-Requisites</td>
<td>Description</td>
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<tr>
<td>PHC 6715</td>
<td>Research Foundations in Public Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: PHC 6000 and PHC 6050.</td>
<td>Course covers foundations of research for understanding and evaluating public health research; plus how to plan and conduct research with minimal assistance including proposal development, grant writing and budgets. Nonmajors accepted. Non-repeatable.</td>
</tr>
<tr>
<td>PHC 6760</td>
<td>Health Program Evaluation</td>
<td>3</td>
<td>PH</td>
<td>HPM</td>
<td>PR: PHC 6430, PHC 6180, and PHC 6151 or CI.</td>
<td>The course develops the skills needed to evaluate health and medical care programs. Emphasis is given to research design, determination of qualitative and quantitative criteria, measurement techniques, and interpretation of findings.</td>
</tr>
<tr>
<td>PHC 6907</td>
<td>Independent Study: Public Health</td>
<td>1-3</td>
<td>PH</td>
<td>PHC</td>
<td>PR: CI. S/U.</td>
<td>Independent study determined by the student's needs and interests.</td>
</tr>
<tr>
<td>PHC 6930</td>
<td>Public Health Seminar</td>
<td>1-3</td>
<td>PH</td>
<td>PHC</td>
<td>PR: Graduate Standing. S/U.</td>
<td>Interaction of faculty, students and select health professionals in relation to public health issues and research.</td>
</tr>
<tr>
<td>PHC 6931</td>
<td>Advanced Seminar In Social &amp; Behavioral Sciences Applied To Health</td>
<td>3</td>
<td>PH</td>
<td>CFH</td>
<td>PR: CI.</td>
<td>The course overviews the use of social science theory and methods in health problem analysis and program design. For students with appropriate background.</td>
</tr>
<tr>
<td>PHC 6934</td>
<td>Selected Topics in Public Health</td>
<td>1-6</td>
<td>PH</td>
<td>PHC</td>
<td>PR: CI.</td>
<td>The content of this course will be governed by student demand and instructor interest.</td>
</tr>
<tr>
<td>PHC 6945</td>
<td>Supervised Field Experience</td>
<td>1-12</td>
<td>PH</td>
<td>PHC</td>
<td>PR: CI. S/U only.</td>
<td>Internship in a public health agency or setting. Application of administrative, program, and/or research models now employed in government and private public health organizations.</td>
</tr>
<tr>
<td>PHC 6977</td>
<td>Special Project: MPH</td>
<td>3</td>
<td>PH</td>
<td>PHC</td>
<td>PR: CI. S/U.</td>
<td>In-depth study of a selected issue in public health. A topic will be selected according to student's needs and interests.</td>
</tr>
<tr>
<td>PHC 7001</td>
<td>Practical Issues in Epidemiology</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: PHC 6000.</td>
<td>Provides an understanding of the everyday tasks faced by an epidemiologist working in the field from hypothesis generation to writing up of study findings.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Primary</td>
<td>Elective</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHC 7015</td>
<td>Epidemiologic Study Design and Protocol Development</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: PHC 6000, PHC 6700, PHC 6051 and CI.</td>
<td>The course will provide the student with the opportunity to acquire knowledge and skill in formulating a research problem and developing an appropriate epidemiologic study design. A detailed proposal will be developed, presented, and defended.</td>
</tr>
<tr>
<td>PHC 7018</td>
<td>Environmental Epidemiology</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: PHC 6000 and CI.</td>
<td>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.</td>
</tr>
<tr>
<td>PHC 7019</td>
<td>Occupational Epidemiology</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: PHC 6000 and CI.</td>
<td>Examines the existing epidemiologic data pertaining to the health effects of specific occupational exposures and the epidemiologic methods involved in the conduct of occupational studies.</td>
</tr>
<tr>
<td>PHC 7028</td>
<td>Advanced Clinical Trials</td>
<td>4</td>
<td>PH</td>
<td>EPB</td>
<td>PR: PHC 6000, PHC 6050, PHC 6700, PHC 6701, PHC 6017.</td>
<td>The many facets of clinical trials will be covered including study design, ethics, monitoring, and analysis. Real datasets will be used to provide the student with the opportunity to learn database management and data analysis using SAS.</td>
</tr>
<tr>
<td>PHC 7054</td>
<td>Advanced Biostatistical Methods</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: CI</td>
<td>This course introduces students to both theoretical and practical problems in specialized advanced topics in Biostatistics. Alternate topics include Applied Multivariate Statistics, Nonparametric Methods, Spatial Statistics in Health Sciences and Advanced Sampling Design. Students can take this course repeatedly.</td>
</tr>
<tr>
<td>PHC 7055</td>
<td>Biostatistical Computing</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: STA 6447 and PHC 7058, or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>PHC 7056</td>
<td>Longitudinal Data Analysis</td>
<td>3</td>
<td>PH</td>
<td>EPB</td>
<td>PR: PHC 7058 and PHC 7053 or CI.</td>
<td>This course is a discussion of recent development of methods for analysis of longitudinal data. Covered topics</td>
</tr>
</tbody>
</table>

Required for Ph.D. students; elective for all other graduate students.
include generalized estimating equations, mixed effects models, hierarchical models.

<p>| PHC   | 7058 | Biostatistical Inference II | 3 | PH | EPB | PR: STA 6447 or CI | 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. |
| PHC   | 7059 | Advanced Survival Data Analysis | 3 | PH | EPB | PR: STA 6647 and PHC 7058 | This course addresses advanced topics of survival data analysis. Topics include recurrence multiple events and faulty models. Counting process based theory is discussed. Real data sets are used for illustration. |
| PHC   | 7065 | Generalized Linear Models | 3 | PH | EPB | PR: PHC 7058 | 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. |
| PHC   | 7152 | Policy and Practice in Community and Family Health | 3 | PH | CFH | | This course is designed to prepare students to critically analyze issues and develop skills pertaining to effective policy development and practice in community and family health public health programs. |
| PHC   | 7317 | Risk Communication in Public Health | 2 | PH | CFH | | Communicating with the public about environmental and occupational health risks that affect individuals, families, and communities is a central task facing public health professionals. Analyzes the structure, function, content and process of risk communication in order to maximize effective, responsible and ethical public interaction and to describe the issues related to the legal implementation of risk communication in public health organizations. |
| PHC   | 7368 | Aerosol Technology in Industrial Hygiene | 3 | PH | EOH | Admission to Ph.D. program or CI | 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 |
| PHC 7417 | Family Systems and Public Health | 3 | PH | CFH | Intended for doctoral students in Community and Family Health interested in social and behavioral theories of family and health behavior. Covers an array of theoretical perspectives related to the process, structure and function of systems. Examines the human values associated with intimate and non-intimate relationships that comprise healthy relational settings. Implications of these conceptual and theoretical frames for public health issues will be discusses. |
| PHC 7509 | Theoretical Foundations Community and Family Health | 3 | PH | CFH | This course is designed for beginning public health doctoral students specializing in Community and Family Health to encourage scholarly discourse of pertinent concepts, theories, and paradigms, and the critical analysis of related scholarly works. |
| PHC 7708 | Applied Research Methods in Community and Family Health | 3 | PH | CFH | PR: PHC 6050, PHC 6700, PHC 6707, or CI. A detailed study of philosophical questions and applied techniques of research in community and family health. A project oriented course to prepare students to conduct their own independent research. |
| PHC 7709 | Case Studies in the Quantitative Analysis of Public Health Data | 3 | PH | CFH | PR: PHC 6051 or Equivalent. Focuses on training students in public health applications of multivariate analytic techniques including factor analysis, regression analysis, multivariate analysis of variance, event history analysis, multi-level modeling and structural equation modeling. |
| PHC 7908 | Specialized Study in Public Health | 1-9 | PH | PHC | PR: CI. Advanced graduate standing. 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. |
| PHC 7910 | Directed Research | 1-19 | PH | PHC | PR: CI, Graduate Standing. S/U only. Advanced research design and application. |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>PR Requirements</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 7931</td>
<td>Advanced Interdisciplinary Seminar in Public Health</td>
<td>1-3</td>
<td>PHC</td>
<td>PR: Advanced Standing, Ph.D. or Advanced Master's only. For advanced graduate</td>
<td>Students, faculty and other health professionals will participate in presenting and discussing contemporary health issues and possible solutions.</td>
</tr>
<tr>
<td>PHC 7934</td>
<td>Writing for Scholarly Publication in Health Science</td>
<td>3</td>
<td>PHC</td>
<td></td>
<td>The purpose of this course is for the development of skills that culminate in publishable works in health-related journals and other related publications. There will be an emphasis on writing, editing, reviewing and other applicable skills.</td>
</tr>
<tr>
<td>PHC 7935</td>
<td>Special Topics In Public Health</td>
<td>1-3</td>
<td>PHC</td>
<td>PR: CI.</td>
<td>Content will include recent or current issues in public health.</td>
</tr>
<tr>
<td>PHC 7980</td>
<td>Dissertation</td>
<td>2-19</td>
<td>PHC</td>
<td>PR: Admission to candidacy.</td>
<td>A general survey of the 20th century continental schools of phenomenology, ontology, and hermeneutics, with special emphasis on the works of Husserl and Heidegger.</td>
</tr>
<tr>
<td>PHH 6265</td>
<td>Continental Philosophy I: Phenomenology to Hermeneutics</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>A general survey of the 20th century continental social and political theory, dealing with both the younger and the older generations of the Critical Theory tradition, together with their contemporaries and critics.</td>
</tr>
<tr>
<td>PHH 6266</td>
<td>Continental Philosophy II: Political Theory and Continental Social Theory</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>An examination of leading philosophical texts in 20th century continental philosophical movements known as structuralism, post-structuralism, postmodernism, and deconstruction, with special emphasis on the works of Michel Foucault and Jacques Derrida.</td>
</tr>
<tr>
<td>PHH 6267</td>
<td>Continental Philosophy III: From Structuralism to Deconstruction</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>A seminar in the history of philosophy. The instructor will determine the subject matter. Variable titles: Ancient, Modern, Recent, Contemporary.</td>
</tr>
<tr>
<td>PHI 6938</td>
<td>Seminar in the History of Philosophy</td>
<td>3</td>
<td>AS</td>
<td>PHI PR: GS or CI.</td>
<td>Study of topics such as the following: Metatheory of propositional and predicate logic, related metatheoretic results, alternative logic.</td>
</tr>
<tr>
<td>PHI 5225</td>
<td>Philosophy of Language</td>
<td>3</td>
<td>AS</td>
<td>PHI PR: Eight hours of philosophy,</td>
<td>An examination of semantically, syntactical, and functional theories.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Area</td>
<td>Co-Reqs</td>
<td>Description</td>
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<tr>
<td>PHI 5913</td>
<td>Research</td>
<td>1-4</td>
<td>AS</td>
<td>PHI</td>
<td>Individual research supervised by a faculty member.</td>
</tr>
<tr>
<td>PHI 5934</td>
<td>Selected Topics</td>
<td>1-3</td>
<td>AS</td>
<td>PHI</td>
<td>Selected topics according to the needs of the student.</td>
</tr>
<tr>
<td>PHI 6105</td>
<td>Seminar in Logic</td>
<td>3</td>
<td>AS</td>
<td>PHI GS or CI</td>
<td>Foundations and basic problems of logical theory. Seminar format.</td>
</tr>
<tr>
<td>PHI 6155</td>
<td>Modal Logic</td>
<td>3</td>
<td>AS</td>
<td>PHI PHI 2100 and GS or CI</td>
<td>A study of the main systems of Modal Logic together with their metatheory, with considerable attention to the varieties of modality.</td>
</tr>
<tr>
<td>PHI 6305</td>
<td>Seminar in Epistemology</td>
<td>3</td>
<td>AS</td>
<td>PHI Major in philosophy or psychology and CI</td>
<td>An analysis of recent and contemporary problems of knowledge. Seminar format.</td>
</tr>
<tr>
<td>PHI 6405</td>
<td>Seminar in the Philosophy of Natural Science</td>
<td>3</td>
<td>AS</td>
<td>PHI GS or CI</td>
<td>A study of the nature and status of physical theories, some basic problems associated with scientific methodology, and the philosophical implications of modern science. Seminar format.</td>
</tr>
<tr>
<td>PHI 6425</td>
<td>Seminar in the Philosophy of Social Science</td>
<td>3</td>
<td>AS</td>
<td>PHI 8 hours of philosophy or CI</td>
<td>Philosophical issues arising in the social sciences; value assumptions, laws and the theories, models, etc. Seminar format.</td>
</tr>
<tr>
<td>PHI 6506</td>
<td>Seminar in Metaphysics</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>In this course students will examine selected topics in classical and contemporary metaphysics, for example, the concept and categories of Being or existence, the existence of God, the problem of universals or general terms, the a priori, the mind-body problem, and the identity thesis.</td>
</tr>
<tr>
<td>PHI 6605</td>
<td>Seminar in Ethics</td>
<td>3</td>
<td>AS</td>
<td>PHI GS and CI</td>
<td>Advanced study of the problems of moral philosophy.</td>
</tr>
<tr>
<td>PHI 6634</td>
<td>Seminar in Biomedical Ethics</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>A focused examination of a particular topic in biomedical ethics such as clinical bioethics, healthcare organizational ethics, philosophy of medicine, medical ethics and law, or medical ethics and conflict resolution.</td>
</tr>
<tr>
<td>PHI 6665</td>
<td>Metaethics</td>
<td>3</td>
<td>AS</td>
<td>PHI PHI 2600</td>
<td>A study of alternative theories of</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Letter</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>PHI 6706</td>
<td>Seminar in the Philosophy of Religion</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>PHI 6808</td>
<td>Seminar in Aesthetics</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>PHI 6908</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>PHI</td>
<td>PR: GR. ML. S/U.</td>
</tr>
<tr>
<td>PHI 6934</td>
<td>Selected Topics</td>
<td>1-3</td>
<td>AS</td>
<td>PHI</td>
<td>PR: GS and CI.</td>
</tr>
<tr>
<td>PHI 6945</td>
<td>Graduate Instruction Methods</td>
<td>1-3</td>
<td>AS</td>
<td>PHI</td>
<td>S/U.</td>
</tr>
<tr>
<td>PHI 6971</td>
<td>Thesis: Master’s</td>
<td>2-19</td>
<td>AS</td>
<td>PHI</td>
<td>PR: CC. S/U.</td>
</tr>
<tr>
<td>PHI 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>AS</td>
<td>PHI</td>
<td>PR: Admission to candidacy</td>
</tr>
<tr>
<td>PHM 5125</td>
<td>Topics in Feminist Philosophy</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td></td>
</tr>
<tr>
<td>PHM 5126</td>
<td>Social Issues in Biomedical Ethics</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td></td>
</tr>
<tr>
<td>PHM 6105</td>
<td>Seminar in Social Philosophy</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>PHM 6305</td>
<td>Seminar in Political Philosophy</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>PHM 6406</td>
<td>Seminar in the Philosophy of Law</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>PHM 6506</td>
<td>Seminar in the Philosophy of History</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>PR: GS or CI.</td>
</tr>
<tr>
<td>PHM 6646</td>
<td>Seminar in</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credit</td>
<td>Type</td>
<td>Department</td>
<td>Description</td>
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<tr>
<td>PHP</td>
<td>Development Ethics</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>examines the major ethical theories related to both national and international development institutions, policies, and practices. Open to all graduate students.</td>
</tr>
<tr>
<td>PHP</td>
<td>Plato</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>A systematic study of Plato's dialogues.</td>
</tr>
<tr>
<td>PHP</td>
<td>Aristotle</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>A systematic study of Aristotle's philosophy.</td>
</tr>
<tr>
<td>PHP</td>
<td>Kant</td>
<td>3</td>
<td>AS</td>
<td>PHI</td>
<td>A survey of Kant's critical philosophy, emphasizing transcendental epistemology and Kant's critique of metaphysics. This course is open to graduate students (majors and non-majors). Prior knowledge of the history of philosophy is required, in particular of early-modern philosophy.</td>
</tr>
<tr>
<td>PHT</td>
<td>Professional Issues I</td>
<td>2</td>
<td>ME</td>
<td>PHT</td>
<td>Foundations of systems thinking, decision making, professional expression, responsibility, and accountability (including legal/ethical concepts), culture and argumentation for the roles of the physical therapist in administration, consultation, critical inquiry, education and patient/client management. Restricted to majors.</td>
</tr>
<tr>
<td>PHT</td>
<td>Professional Issues II</td>
<td>2</td>
<td>ME</td>
<td>PHT</td>
<td>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.</td>
</tr>
<tr>
<td>PHT</td>
<td>Professional Issues III</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
<td>Focus on legal, ethical, and professional responsibility and accountability of the physical therapist. Learners will further develop their abilities to make legal and ethical decisions. The class will examine state laws governing the practice of physical therapy and other health care services. Restricted to majors.</td>
</tr>
<tr>
<td>PHT</td>
<td>Foundational Science I</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
<td>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.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHT 5172C</td>
<td>Foundational Science II</td>
<td>1</td>
<td>ME</td>
<td>PHT</td>
<td>Emphasis on physiology of the peripheral sensorimotor and cardiopulmonary systems. Restricted to majors.</td>
</tr>
<tr>
<td>PHT 5173C</td>
<td>Foundational Science III</td>
<td>2</td>
<td>ME</td>
<td>PHT</td>
<td>Emphasis on physiology of the peripheral sensorimotor and cardiopulmonary systems. Restricted to majors.</td>
</tr>
<tr>
<td>PHT 5184</td>
<td>Movement Science I</td>
<td>2</td>
<td>ME</td>
<td>PHT</td>
<td>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. Repeatable for 2 cr.</td>
</tr>
<tr>
<td>PHT 5185</td>
<td>Movement Science II</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 5271</td>
<td>Patient/Client Management I</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
<td>Foundational principles of histology, pathology, histopathology, applied biomechanics, pharmacology and clinical medicine are introduced and applied to the physical therapy management of individuals with musculoskeletal disorders involving the limbs. Restricted to majors.</td>
</tr>
<tr>
<td>PHT 5272</td>
<td>Patient/Client Management II</td>
<td>2</td>
<td>ME</td>
<td>PHT</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 5273</td>
<td>Patient/Client Management III</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
<td>Learners apply principles of patient/client management to patients with progressive, non-progressive diseases and injuries of the nervous system. Restricted to majors.</td>
</tr>
<tr>
<td>PHT 5275C</td>
<td>Physical Therapy Science I</td>
<td>4</td>
<td>ME</td>
<td>PHT</td>
<td>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</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHT 5276C</td>
<td>Physical Therapy Science II</td>
<td>4</td>
<td>ME</td>
<td>PHT</td>
<td>Introduction to physical therapy skills used in examination, evaluation, diagnosis of and intervention for clients with activity limitations associated with cardiovascular, hematological, or pulmonary disorders. Major emphasis on selecting, justifying, administering, and interpreting physiological responses to physical agents and therapeutic exercises. Restricted to majors.</td>
</tr>
<tr>
<td>PHT 5277C</td>
<td>Physical Therapy Science III</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 5283C</td>
<td>Physical Therapy Procedures</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
<td>Introduction to selected physical therapy interventions, obtaining a patient history, and conducting a systems screen. Restricted to majors. Repeatable for 3 cr.</td>
</tr>
<tr>
<td>PHT 5316</td>
<td>Medical Management I</td>
<td>1</td>
<td>ME</td>
<td>PHT</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 5380</td>
<td>Medical Management II</td>
<td>1</td>
<td>ME</td>
<td>PHT</td>
<td>Seminar on the medical and surgical management; epidemiology; pathophysiology; pharmacology of injuries and diseases of the cardiopulmonary system including repair and regeneration. Restricted to majors. Repeatable for 1 credit.</td>
</tr>
<tr>
<td>PHT 5822</td>
<td>Clinical Education I</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
<td>Initial clinical practice experience for the development of patient care skills. The course is graded Satisfactory/Unsatisfactory. Restricted to majors.</td>
</tr>
<tr>
<td>PHT 5906</td>
<td>Directed Independent Study</td>
<td>1-10</td>
<td>ME</td>
<td>PHT</td>
<td>Directed independent stud, content to be decided. Restricted to majors.</td>
</tr>
<tr>
<td>PHT 5934</td>
<td>Special</td>
<td>1-10</td>
<td>ME</td>
<td>PHT</td>
<td>Exploration of physical therapy</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHT 5960</td>
<td>Clinical Proficiency and Problem Solving I</td>
<td>1</td>
<td>ME</td>
<td>PHT</td>
<td>Practicum for patient/client management of individuals with musculoskeletal related movement disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.</td>
</tr>
<tr>
<td>PHT 5961</td>
<td>Clinical Proficiency and Problem Solving II</td>
<td>1</td>
<td>ME</td>
<td>PR: PHT 5960</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 6186</td>
<td>Movement Science III</td>
<td>4</td>
<td>ME</td>
<td>PHT PR: PHT 5184, PHT 5185</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 6313</td>
<td>Medical Management III</td>
<td>1</td>
<td>ME</td>
<td>PR: PHT 5380</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 6341</td>
<td>Medical Management II</td>
<td>1</td>
<td>ME</td>
<td>PR: PHT 6313</td>
<td>Seminar on the medical and surgical management; epidemiology; pathophysiology, and pharmacology of complex multisystem disorders and movement disorders across the life span. Restricted to majors. Repeatable for 1 credit hour.</td>
</tr>
<tr>
<td>PHT 6391C</td>
<td>Foundational Science IV</td>
<td>2</td>
<td>ME</td>
<td>PHT</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 6392C</td>
<td>Foundational Science V</td>
<td>1</td>
<td>ME</td>
<td>PHT</td>
<td>Application of the behavioral foundational sciences (sociology, psychology, human development) and biopsychosocial model to each of the roles of the physical therapist.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<td>Department</td>
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<tr>
<td>PHT 6521</td>
<td>Professional Issues IV</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
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</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>PHT 6522</td>
<td>Professional Issues V</td>
<td>2</td>
<td>ME</td>
<td>PHT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Development of a strategic plan for professional growth which reflects commitment to all roles of the Physical Therapist (administration, consultation, critical injury, education and patient/client management) and exploration of the nature of individual and cultural differences, organizational cultures, mentoring, and leadership. Restricted to majors.</td>
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<tr>
<td>PHT 6606</td>
<td>Critical Inquiry I</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
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</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>PHT 6731</td>
<td>Patient/Client Management IV</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
<td></td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>PHT 6732</td>
<td>Advanced Patient/Client Management II</td>
<td>2</td>
<td>ME</td>
<td>PHT</td>
<td></td>
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<tr>
<td></td>
<td>Learners adapt principles of patient/client management to lifestyle and socioeconomic issues in order to identify dysfunctions that can be addressed by the physical therapist. Restricted to majors.</td>
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<tr>
<td>PHT 6735C</td>
<td>Physical Therapy Science IV</td>
<td>4</td>
<td>ME</td>
<td>PHT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>GE Major</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHT 6736C</td>
<td>Advanced Physical Therapy Science II</td>
<td>2</td>
<td>ME</td>
<td>PHT</td>
<td>Focus on the physical therapist in ameliorating activity limitations and participation restrictions encountered by people with irreversible physical impairments. Emphasis on the physical therapy assessment and intervention procedures to identify and minimize physical disabilities occurring secondary to complex, multi-system disorders. Restricted to majors.</td>
</tr>
<tr>
<td>PHT 6823</td>
<td>Clinical Education II</td>
<td>17</td>
<td>ME</td>
<td>PHT</td>
<td>A 20 week clinical internship experience that takes place in a comprehensive center or cluster of centers. Course is S/U graded. Restricted to majors.</td>
</tr>
<tr>
<td>PHT 6935</td>
<td>Special Topics II</td>
<td>1-10</td>
<td>ME</td>
<td>PHT</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 6962</td>
<td>Clinical Proficiency and Problem Solving III</td>
<td>1</td>
<td>ME</td>
<td>PHT</td>
<td>Practicum for the synthesis of skills, knowledge, and values required for the management of individuals with neuromuscular related movement disorders complemented by direct patient care learning. Restricted to majors. Repeatable for 1 credit hour.</td>
</tr>
<tr>
<td>PHT 6963</td>
<td>Clinical Proficiency and Problem Solving IV</td>
<td>1</td>
<td>ME</td>
<td>PHT PR: PHT 6962</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 7401</td>
<td>Psychosocial Aspects of PT Practice</td>
<td>3</td>
<td>ME</td>
<td>PHT</td>
<td>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.</td>
</tr>
<tr>
<td>PHT 7617</td>
<td>Critical Inquiry II</td>
<td>2</td>
<td>ME</td>
<td>PHT PR: PHT 6606</td>
<td>Course involves the preparation of a patient case report related to movement disorders secondary to a neuromuscular or complex multi-system problem. Restricted to majors. Repeatable for 2 credits.</td>
</tr>
<tr>
<td>PHT 7618</td>
<td>Critical Inquiry III</td>
<td>3</td>
<td>ME</td>
<td>PHT PR: PHT 7617</td>
<td>Development, implementation, and presentation of a capstone investigative project. Restricted to majors.</td>
</tr>
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<td>Course Code</td>
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<td>Prerequisites</td>
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<tr>
<td>PHT 7817</td>
<td>Critical Education II</td>
<td>6</td>
<td>ME</td>
<td>PHT</td>
<td>PR: PHT 6806, PHT 6962, PHT 6963</td>
</tr>
<tr>
<td>PHT 7823</td>
<td>Critical Education III</td>
<td>12</td>
<td>ME</td>
<td>PHT</td>
<td>PR: PHT 6806, PHT 7817</td>
</tr>
<tr>
<td>PHT 7906</td>
<td>Independent Study</td>
<td>1-3</td>
<td>ME</td>
<td>PHT</td>
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<tr>
<td>PHT 7936</td>
<td>Special Topics III</td>
<td>1-10</td>
<td>ME</td>
<td>PHT</td>
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</tr>
<tr>
<td>PHY 5720C</td>
<td>Electronics for Research</td>
<td>3</td>
<td>AS</td>
<td>PHY</td>
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</tr>
<tr>
<td>PHY 5937</td>
<td>Selected Topics in Physics</td>
<td>1-4</td>
<td>AS</td>
<td>PHY</td>
<td>PR: Senior or advanced standing and CC.</td>
</tr>
<tr>
<td>PHY 6246</td>
<td>Classical Mechanics</td>
<td>3</td>
<td>AS</td>
<td>PHY</td>
<td>PR: PHY 4222 or CI. Fall Semester.</td>
</tr>
<tr>
<td>PHY 6446</td>
<td>Lasers and</td>
<td>3</td>
<td>AS</td>
<td>PHY</td>
<td>PR: PHY 4324</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Credits</td>
<td>Type</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>PHY 6447</td>
<td>Physics of Lightwave Devices and Applications</td>
<td>3</td>
<td>AS</td>
<td>PHY</td>
<td>PR: PHY 6446 or CI.</td>
</tr>
<tr>
<td>PHY 6645</td>
<td>Quantum Mechanics I</td>
<td>3</td>
<td>AS</td>
<td>PHY</td>
<td>PR: PHY 4604 or CI.</td>
</tr>
<tr>
<td>PHY 6646</td>
<td>Applied Quantum Mechanics</td>
<td>3</td>
<td>AS</td>
<td>PHY</td>
<td>PR: PHY 6645 or CI.</td>
</tr>
<tr>
<td>PHY 6753</td>
<td>Measurement and Instrumentation</td>
<td>3</td>
<td>AS</td>
<td>PHY</td>
<td>PR: PHY 4744 or PHY 5720 or CI.</td>
</tr>
<tr>
<td>PHY 6909</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>PHY</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>PHY 6911</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>PHY</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>PHY 6935</td>
<td>Graduate Seminar</td>
<td>1</td>
<td>AS</td>
<td>PHY</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>PHY 6938</td>
<td>Selected Topics in Physics</td>
<td>1-10</td>
<td>AS</td>
<td>PHY</td>
<td>PR: CI</td>
</tr>
<tr>
<td>PHY 6940</td>
<td>Supervised Teaching</td>
<td>3</td>
<td>AS</td>
<td>PHY</td>
<td>PR: Dept. Approval Required.</td>
</tr>
<tr>
<td>PHY 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>PHY</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>PHY 7910</td>
<td>Directed Research</td>
<td>1-9</td>
<td>AS</td>
<td>PHY</td>
<td>PR: Graduate Ph.D. level.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PHZ 5115</td>
<td>Methods of Theoretical Physics I</td>
<td>3</td>
<td>PHY</td>
<td>PR: MAP 2302 or CI.</td>
<td>Applications of mathematical techniques to classical and modern physics. Vector spaces including Hilbert space, orthogonal functions, generalized functions, Fourier analysis, transform calculus, and variational calculus.</td>
</tr>
<tr>
<td>PHZ 5116</td>
<td>Methods of Theoretical Physics II</td>
<td>3</td>
<td>PHY</td>
<td>PR: MAP 2302 or CI.</td>
<td>Applications of mathematical techniques to classical and modern physics. Selected topics in complex analysis, differential and integral equations, numerical methods, and probability theory.</td>
</tr>
<tr>
<td>PHZ 5156C</td>
<td>Computational Physics I</td>
<td>3</td>
<td>PHY</td>
<td>PR: CGS 5765 or CI.</td>
<td>C programming applied to real science and engineering problems. Data analysis, numerical algorithms, modeling, parallel computation. Subjects selected from current research may include neurobiology, quantum magnetism, chaos, finance, materials science.</td>
</tr>
<tr>
<td>PHZ 5304</td>
<td>Nuclear Physics</td>
<td>3</td>
<td>PHY</td>
<td>PR: PHY 4604 or CI.</td>
<td>Nuclear forces, nuclear models, nuclear structure, decay, nuclear reactions, and high energy physics.</td>
</tr>
<tr>
<td>PHZ 5405</td>
<td>Solid State Physics I</td>
<td>3</td>
<td>PHY</td>
<td>PR: PHY 3101, MAP 2302, CI.</td>
<td>Crystal structure, x-ray and electron diffraction, mechanical and thermal properties of solids, electrical and magnetic properties of metals, band theory of metals, insulators, and semiconductors. First semester of sequence PHZ 5405, PHZ 6426.</td>
</tr>
<tr>
<td>PHZ 6136</td>
<td>Physical Applications of Group Theory</td>
<td>3</td>
<td>PHY</td>
<td>PR: CI.</td>
<td>Matrices, symmetry elements and point groups, reducible and irreducible representations, molecular vibrations, selection rules, rotation groups and atomic levels, molecular orbitals and electronic energies, space groups and spectra of crystals, crystal field theory and symmetry.</td>
</tr>
<tr>
<td>PHZ 6204</td>
<td>Atomic and Molecular Spectra I</td>
<td>3</td>
<td>PHY</td>
<td>PR: PHY 4604 or CI.</td>
<td>Hydrogen atom, one electron systems, central field and vector models, perturbations, Zeeman and Stark effect, hyperfine structure, atomic structure calculations; diatomic spectra, rotational and vibration analysis, intensities, temperatures from spectra, isotope effects.</td>
</tr>
<tr>
<td>PHZ 6205</td>
<td>Atomic And Molecular</td>
<td>3</td>
<td>PHY</td>
<td>PR: PHZ 6204 or CI.</td>
<td>Electronic transitions in diatomic molecules, Hund's coupling schemes,</td>
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<td>Code</td>
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<td>Credits</td>
<td>Department</td>
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<tr>
<td>PHZ</td>
<td>Solid State Physics II</td>
<td>3</td>
<td>PHY</td>
<td>PR: PHZ 5405 or CI.</td>
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<tr>
<td>POS</td>
<td>Issues in American National and State Government</td>
<td>3</td>
<td>POL</td>
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<tr>
<td>POS</td>
<td>Issues in Urban Government and Politics</td>
<td>3</td>
<td>POL</td>
<td></td>
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<tr>
<td>POS</td>
<td>Urban Policy Analysis</td>
<td>3</td>
<td>PAD</td>
<td></td>
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<tr>
<td>POS</td>
<td>Seminar in American Government &amp; Politics</td>
<td>3</td>
<td>POL</td>
<td>Sr./GS.</td>
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<tr>
<td>POS</td>
<td>Issues in State Government and Politics</td>
<td>3</td>
<td>POL</td>
<td>GS.</td>
<td></td>
</tr>
<tr>
<td>POS</td>
<td>Seminar in Urban Government and Politics</td>
<td>3</td>
<td>POL</td>
<td>GS.</td>
<td></td>
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<tr>
<td>POS</td>
<td>The American Presidency</td>
<td>3</td>
<td>POL</td>
<td>GS.</td>
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<tr>
<td>POS</td>
<td>The Legislative Process</td>
<td>3</td>
<td>POL</td>
<td>GS.</td>
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<td>Code</td>
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<td>Units</td>
<td>Credit</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>POS 6455</td>
<td>Political Parties and Interest Groups</td>
<td>3 AS</td>
<td>POL</td>
<td>GS.</td>
<td>Analysis of statutes, functions, and characteristics of political parties and interest groups, as well as their interactions with political processes, actors, and institutions.</td>
</tr>
<tr>
<td>POS 6607</td>
<td>Constitutional Law</td>
<td>3 AS</td>
<td>POL</td>
<td>PR: GS.</td>
<td>Advanced study of legal, political, philosophic, and methodological problems in constitutional law.</td>
</tr>
<tr>
<td>POS 6698</td>
<td>Seminar in Law and Politics</td>
<td>3 AS</td>
<td>POL</td>
<td>PR: GS.</td>
<td>Advanced study of institutions and processes in the field of law and politics.</td>
</tr>
<tr>
<td>POS 6735</td>
<td>Foundations of Political Inquiry</td>
<td>3 AS</td>
<td>POL</td>
<td></td>
<td>Survey of philosophical, intellectual, and theoretical issues, including historical development of political science. Topics include empirical approaches, rational choice theory, and critical approaches such as pragmatics, hermeneutics, genealogy, and critical theory.</td>
</tr>
<tr>
<td>POS 6736</td>
<td>Political Research Methods</td>
<td>3 AS</td>
<td>POL</td>
<td>PR: POS 3713 or equiv.</td>
<td>A graduate level, introductory survey of empirical research methodology, including statistics and computer data analysis. Topics include measurement, sampling, research design, and selected bivariate analysis techniques.</td>
</tr>
<tr>
<td>POS 6909</td>
<td>Independent Study</td>
<td>1-3 AS</td>
<td>POL</td>
<td>PR: 3.0 in Political Science, CC. S/U.</td>
<td>Specialized independent study determined by the student's needs and interests. Needs instructor's consent.</td>
</tr>
<tr>
<td>POS 6919</td>
<td>Directed Research</td>
<td>1-19 AS</td>
<td>POL</td>
<td>PR: GR. ML. S/U.</td>
<td></td>
</tr>
<tr>
<td>POS 6933</td>
<td>Selected Topics in Political Science</td>
<td>3 AS</td>
<td>POL</td>
<td></td>
<td>Selected topics, issues, and problems in political science.</td>
</tr>
<tr>
<td>POS 6942</td>
<td>Field Work in Political Science</td>
<td>1-3 AS</td>
<td>POL</td>
<td>PR: 3.0 in Political Science and GS.</td>
<td>Application of research models now employed in governmental agencies, including development of a structured research proposal.</td>
</tr>
<tr>
<td>POS 6971</td>
<td>Thesis: Master's</td>
<td>2-19 AS</td>
<td>POL</td>
<td>PR: CC. S/U.</td>
<td>Provides students who are capable of independent work with the opportunity to explore advanced problems of political theory.</td>
</tr>
<tr>
<td>POT 6007</td>
<td>Seminar in Political Theory</td>
<td>3 AS</td>
<td>POL</td>
<td>PR: GS.</td>
<td>Provides students who are capable of independent work with the opportunity to explore advanced problems of political theory.</td>
</tr>
<tr>
<td>PPE 6058</td>
<td>Personality</td>
<td>3 AS</td>
<td>PSY</td>
<td>PR: Admission to graduate</td>
<td>Survey of research and theories of personality, including its relationship to the development of normal and abnormal behavior.</td>
</tr>
<tr>
<td>PSB 6056</td>
<td>Physiological Psychology</td>
<td>3 AS</td>
<td>PSY</td>
<td>PR: Admission to graduate</td>
<td>Survey of data and research methods in Behavioral Neuroscience. Basic</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Department Code</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>PSY 6217</td>
<td>Research Methods and Measurement</td>
<td>2-4</td>
<td>AS</td>
<td>PSY PR: CI.</td>
<td>Courses in research strategies, design and analysis, and measurement theory in psychological experimentation. Inferential statistics, anova, correlation methods, and interpretation.</td>
</tr>
<tr>
<td>PSY 6605C</td>
<td>History and Systems of Psychology</td>
<td>2</td>
<td>AS</td>
<td>PSY PR: Admission to graduate program in Psychology or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>PSY 6907</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>PSY PR: Majors only. S/U.</td>
<td>Independent study in which student must have a contract with an instructor.</td>
</tr>
<tr>
<td>PSY 6946</td>
<td>Practicum and Internship in Clinical Psychology</td>
<td>1-15</td>
<td>AS</td>
<td>PSY PR: CI.</td>
<td>Special course to be used primarily for the training of teaching assistants.</td>
</tr>
<tr>
<td>PSY 6947</td>
<td>Graduate Instruction Methods</td>
<td>1-3</td>
<td>AS</td>
<td>PSY PR: CI. S/U.</td>
<td>An advanced reading program of selected topics in Psychology under the supervision of a Psychology faculty member. The reading program is designed to meet the individual requirements and interest of graduate students in Psychology, with selected topics chosen by the student in close collaboration with a faculty member.</td>
</tr>
<tr>
<td>PSY 7908</td>
<td>Directed Readings in Psychology</td>
<td>1-15</td>
<td>AS</td>
<td>PSY PR: CI.</td>
<td>The study of health care policy as it relates to the policy process in the community and university settings in the application of Psychology.</td>
</tr>
<tr>
<td>PSY 7931</td>
<td>Seminar in Ethics and Professional Problems</td>
<td>2</td>
<td>AS</td>
<td>PSY PR: Second year in Ph.D. program in Psychology or CI.</td>
<td>Ethical issues and professional problems in the practice of psychology.</td>
</tr>
<tr>
<td>PSY 7980</td>
<td>Dissertation: Doctoral</td>
<td>2-19</td>
<td>AS</td>
<td>PSY PR: Admission to Candidacy, S/U.</td>
<td>The study of health care policy as it relates to the policy process in the community and university settings in the application of Psychology.</td>
</tr>
<tr>
<td>PUP 5607</td>
<td>Public Policy and Health</td>
<td>3</td>
<td>AS</td>
<td>POL</td>
<td>The study of health care policy as it relates to the policy process in the community and university settings in the application of Psychology.</td>
</tr>
<tr>
<td>Code</td>
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<td>Credits</td>
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<tr>
<td>PUP</td>
<td>6007 Seminar in Public Policy</td>
<td>3</td>
<td>AS POL</td>
<td></td>
<td>Examination of public policy from a theoretical and practical decision. Analysis will be presented in terms of their usefulness in designing policy.</td>
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<tr>
<td>PUR</td>
<td>5505 Introduction to Public Relations Theory and Research</td>
<td>3</td>
<td>AS COM</td>
<td>Bachelor's degree in related field(s)</td>
<td>This course is designed as an introductory graduate course in Public Relations Theory, research methods and management for majors. Theory and research are combined to acclimate students into appropriate skills and thinking processes used by practitioners.</td>
</tr>
<tr>
<td>PUR</td>
<td>6602 Public Relations Management</td>
<td>3</td>
<td>AS COM</td>
<td>GS in Mass Communication s or CI.</td>
<td>Explores the wide body of social science theory that is the foundation of a successful public relations program in organization. Focuses on the use of public relations as strategic planning function concerned with building long-term beneficial relationships between the organization and its external and internal publics.</td>
</tr>
<tr>
<td>PUR</td>
<td>6603 Public Relations Counseling</td>
<td>3</td>
<td>AS COM</td>
<td>CC.</td>
<td>Relationship of the public relations counselor to the client or employer; counseling in corporate, non-profit, and governmental organizations; writing and presenting PR programs to the client; management and operation of counseling firms.</td>
</tr>
<tr>
<td>QMB</td>
<td>6305 Managerial Decision Analysis</td>
<td>2</td>
<td>BA MBA</td>
<td></td>
<td>A study of the general concepts of interval estimation, hypothesis testing, correlation and multiple regression with an emphasis on applications, concepts and interpretation of results.</td>
</tr>
<tr>
<td>QMB</td>
<td>6365 Applied Business Forecasting</td>
<td>3</td>
<td>BA QMB</td>
<td>QMB 6305 or equiv., CC.</td>
<td>Logic and application of quantitative forecasting, techniques to problems in business.</td>
</tr>
<tr>
<td>QMB</td>
<td>6375 Applied Linear Statistical Models</td>
<td>3</td>
<td>BA QMB</td>
<td>QMB 6305 or equiv., CC.</td>
<td>A study of multivariate data analysis techniques and their applications to problems and systems in business.</td>
</tr>
<tr>
<td>QMB</td>
<td>6603 Operations Management and Quality Enhancement</td>
<td>2</td>
<td>BA MBA</td>
<td>GS and college algebra.</td>
<td>Principles of managing manufacturing and service organizations. Topics include: competitive use of operations, comprehensive manufacturing strategies, production system design, material requirements planning, JIT systems, quality management, statistical process control, and project management.</td>
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730
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Degree</th>
<th>Prerequisites</th>
<th>Description</th>
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<tr>
<td>QMB 7565</td>
<td>Introduction to Research Methods</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: CC.</td>
<td>A course in research strategies, design, analysis, and measurement for business research.</td>
</tr>
<tr>
<td>QMB 7566</td>
<td>Applied Multivariate Statistical Methods</td>
<td>3</td>
<td>BA</td>
<td>QMB PR: CC.</td>
<td>A course in research analysis and measurement focusing on multivariate statistical analysis techniques.</td>
</tr>
<tr>
<td>RCS 5035</td>
<td>Rehabilitation Counseling: Concepts and Applications</td>
<td>3</td>
<td>AS</td>
<td>REH PR: CC.</td>
<td>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.</td>
</tr>
<tr>
<td>RCS 5080</td>
<td>Medical Aspects of Disability</td>
<td>3</td>
<td>AS</td>
<td>REH PR: RCS 5780 or CP.</td>
<td>A survey of medical conditions and disabilities encountered by rehabilitation and mental health counselors. Examines the relationship of client handicaps, physical and mental, to rehabilitation and mental health programming.</td>
</tr>
<tr>
<td>RCS 5780</td>
<td>Legal, Ethical, Professional Standards and Issues in Counseling</td>
<td>3</td>
<td>AS</td>
<td>REH PR: CC.</td>
<td>An overview of all aspects of professional functioning including history, roles, organizational structures, ethics, standards and credentialing. Contemporary and developing issues in the field of professional counseling will also be addressed.</td>
</tr>
<tr>
<td>RCS 5905</td>
<td>Directed Studies</td>
<td>1-4</td>
<td>AS</td>
<td>REH PR: CI.</td>
<td>Supervised rehabilitation studies under the direction of a faculty member.</td>
</tr>
<tr>
<td>RCS 6220</td>
<td>Individual Evaluation and Assessment</td>
<td>3</td>
<td>AS</td>
<td>REH PR: RCS 5080, RCS 5780, RCS 6440.</td>
<td>Examines assessment procedures utilized in rehabilitation and mental health counseling settings and critical issues in the evaluation of people who are mentally and physically disabled.</td>
</tr>
<tr>
<td>RCS 6301</td>
<td>Career and Lifestyle Assessment</td>
<td>3</td>
<td>AS</td>
<td>REH PR: RCS 5080, RCS 5035, MHS 5020, RCS 6470, RCS 6440.</td>
<td>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.</td>
</tr>
<tr>
<td>RCS 6407</td>
<td>Counseling Theories and Practice</td>
<td>3</td>
<td>AS</td>
<td>REH PR: MHS 5020, RCS 5035, RCS 5080, RCS 6440.</td>
<td>An extension and intensification of the rehabilitation and mental health counseling skills developed in RCS 5404. Includes the study of</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Requisite</td>
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<tr>
<td>RCS 6408</td>
<td>Diagnosis and Treatment of Psychopathology</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
<td>PR: MHS 5020, RCS 6440, RCS 5080, RCS 5035. Majors Only. Psychopathology as applied to psychotherapy and case management in mental health, addictions, and other rehabilitation settings.</td>
</tr>
<tr>
<td>RCS 6440</td>
<td>Social and Cultural Foundations of Counseling</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
<td>PR: RCS 5780 or CC. Counseling issues in a multicultural and diverse society. Special emphasis on psychosocial adjustment and counseling for individuals with physical and mental disabilities.</td>
</tr>
<tr>
<td>RCS 6459</td>
<td>Substance Abuse II</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
<td>PR: RCS 5450 and CI. An extension of RCS 5450 with emphasis on family problems and approaches to counseling and working with alcohol and other substance abuse.</td>
</tr>
<tr>
<td>RCS 6510</td>
<td>Group Theories and Practice</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
<td>PR: RCS 5035, RCS 5080, MHS 5020, RCS 6440. Theoretical and empirical issues in group counseling are examined in the context of an ongoing group. Emphasis is on application to rehabilitation and mental health counseling.</td>
</tr>
<tr>
<td>RCS 6740</td>
<td>Research and Program Evaluation</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
<td>PR: RCS 5780. Training in the evaluation and utilization of available research studies and the development of research skills. An individual research project is required.</td>
</tr>
<tr>
<td>RCS 6803</td>
<td>Practicum in Counseling</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
<td>PR: RCS 5080, MHS 5020, RCS 6440, RCS 5035. Field work experience in rehabilitation mental health counseling.</td>
</tr>
<tr>
<td>RCS 6825</td>
<td>Internship</td>
<td>3</td>
<td>AS</td>
<td>REH</td>
<td>PR: CP, All required courses in M.A. program., CC. S/U. Student placement in an approved intern setting for a minimum of 600 hours of supervised experience.</td>
</tr>
<tr>
<td>RCS 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS</td>
<td>REH</td>
<td>PR: CC. S/U. Independent study where the student must have a contract with a faculty member.</td>
</tr>
<tr>
<td>RCS 6930</td>
<td>Seminar in Rehabilitation Counseling</td>
<td>1-4</td>
<td>AS</td>
<td>REH</td>
<td>PR: CI. Selected issues and problems in rehabilitation counseling with subject and scope to be determined by instructor.</td>
</tr>
<tr>
<td>RED 6116</td>
<td>Current Trends in Elementary Reading Instruction</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
<td>PR: RED 4310 or equiv. Not to be used as a first course in reading. Approaches, materials, and procedures in Elementary Reading instruction, with emphasis on pertinent research.</td>
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</tbody>
</table>
| RED 6247   | District and                                                                 | 3       | ED   | EDR       | PR: LAE 6315, District and School Level
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Graduation Track</th>
<th>Course Description</th>
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</thead>
<tbody>
<tr>
<td>RED 6544</td>
<td>Supervision in Literacy in School Level</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td>Supervision in Literacy familiarizes students with issues related to the organization and monitoring of elementary and secondary reading programs at the school and district levels, with an emphasis on the former.</td>
</tr>
<tr>
<td>RED 6365</td>
<td>Reading in Secondary and Higher Education</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td>Designed for student and inservice teachers with appropriate B.A. degrees. Content covers secondary, community college, and university levels. Organization permits student to work on applications to individual levels and disciplines. Research paper required.</td>
</tr>
<tr>
<td>RED 6449</td>
<td>Literacy and Technology</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td>Literacy and Technology focuses on technology as a tool for literacy instruction. Throughout the course, students will preview and evaluate literacy-related software and websites, critique research related to literacy and technology, and design, develop, and present software programs for literacy learning and instruction.</td>
</tr>
<tr>
<td>RED 6514</td>
<td>The Reading Process in the Elementary Grades</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
<td>Prepares students in the foundations of literacy including learning principles, teaching and assessment strategies for providing literacy instruction to emergent, novice, transitional, and accomplished readers and writers in the elementary grades.</td>
</tr>
<tr>
<td>RED 6516</td>
<td>Corrective Reading in the Classroom</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td>Use of diagnostic and prescriptive procedures with individual and group reading instruction.</td>
</tr>
<tr>
<td>RED 6540</td>
<td>Assessment in Literacy</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td>RED 6540 is a three credit graduate level course which focuses on methods of analysis of children's literacy and strategies for promoting language, reading and writing development. Authentic literacy assessment in classroom and other instructional environments, informal assessment and diagnosis, and standardized tests will be utilized in evaluation of the multiple factors in reading, writing and language process and problems.</td>
</tr>
<tr>
<td>RED 6544</td>
<td>Cognition, Comprehension, and Content Area</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td>In-depth study of reading comprehension. Emphasis is placed on discussion of the concepts of cognition and learning,</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Semester</td>
<td>Notes</td>
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<tr>
<td>RED 6545</td>
<td>Issues in Vocabulary and Word Study</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td></td>
</tr>
<tr>
<td>RED 6747</td>
<td>The History and Foundations of Reading Models</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td></td>
</tr>
<tr>
<td>PR: EDF 6432, EDF 6481, or CI.</td>
<td></td>
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<tr>
<td>RED 6786</td>
<td>Teacher Research Methods in Reading</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
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<tr>
<td>PR: EDF 6481, RED 6747, RED 6545, RED 6544, RED 6247, RED 6449.</td>
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<tr>
<td>RED 6846</td>
<td>Practicum in Reading</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
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<tr>
<td>PR: RED 6747, RED 6545, RED 6544, RED 6540, or CI.</td>
<td></td>
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<tr>
<td>RED 6906</td>
<td>Independent</td>
<td>1-6</td>
<td>ED</td>
<td>EDR</td>
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</tbody>
</table>

Independent study in which students...
<table>
<thead>
<tr>
<th>Study: Reading Education</th>
<th>RED 6971 Thesis: Masters/Educational Specialist</th>
<th>2-19</th>
<th>ED</th>
<th>EDR</th>
<th>must have a contract with an instructor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 7048 Reading as a Symbolic Process</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td>PR: RED 6116 or RED 6365, GS or DPR.</td>
<td>Seminar designed to develop critical thinking about the reading process and reading acquisition.</td>
</tr>
<tr>
<td>RED 7745 Research in Reading Instruction</td>
<td>3</td>
<td>ED</td>
<td>EDR</td>
<td>PR: RED 6116 or RED 6365, GS or DPR.</td>
<td>Seminar examining in depth the current research on instruction in the field of reading education.</td>
</tr>
<tr>
<td>RED 7910 Directed Research in Reading/Language Arts</td>
<td>1-19</td>
<td>ED</td>
<td>EDR</td>
<td>PR: Advanced graduate standing.</td>
<td>Independent student-faculty research course.</td>
</tr>
<tr>
<td>RED 7938 Advanced Graduate Seminar In Reading/Language Arts</td>
<td>1-3</td>
<td>ED</td>
<td>EDR</td>
<td>PR: Enrollment in at least 3 hours is required for each doctoral student.</td>
<td>Discussion and evaluation of current issues and research in Reading/Language Arts and related fields. Rpt. To 6 hours.</td>
</tr>
<tr>
<td>RED 7980 Dissertation: Doctoral</td>
<td>2-30</td>
<td>ED</td>
<td>EDR</td>
<td>Admission to Candidacy.</td>
<td></td>
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<tr>
<td>REL 6035 Theory and Method in Religious Studies</td>
<td>4</td>
<td>AS</td>
<td>REL</td>
<td>PR: GS in the Department of Religious Studies.</td>
<td>An introduction to and research methods used in Religious Studies proper and those of other disciplines. In the former are to be found comparative religion, religious hermeneutics, and theological analysis. Among the latter are included comparative literature, literary criticism, sociology, philosophy, and historiography.</td>
</tr>
<tr>
<td>REL 6126 Religion in America</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>REL 6143 Religion, Culture, and Society</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td></td>
<td>Scholarly study of religion in its complex relationship of culture and society, including definitions and theories of religion, research methods, becoming religious, social organization, and interconnections with other social institutions.</td>
</tr>
<tr>
<td>REL 6175 Religion, Ethics and Public Policy</td>
<td>3</td>
<td>AS</td>
<td>REL</td>
<td></td>
<td>This seminar will explore the relation between religion, ethics, the social sciences, and social policy. Problems of ideological conflict and ethical relativism will be examined,</td>
</tr>
</tbody>
</table>
as well as possible religious and theoretical foundations for a normative ethics of social change.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Approaches</th>
<th>Prerequisites</th>
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<tr>
<td>REL 6178</td>
<td>Comparative Religious Ethics</td>
<td>3</td>
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<tr>
<td>REL 6182</td>
<td>Faith and Reason in Western Religious Ethics</td>
<td>3</td>
<td>REL</td>
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<tr>
<td>REL 6195</td>
<td>Religion and Modernization</td>
<td>3</td>
<td>REL</td>
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<tr>
<td>REL 6285</td>
<td>Studies in Biblical Archaeology</td>
<td>3</td>
<td>REL</td>
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<tr>
<td>REL 6327</td>
<td>Seminar: Ancient Religions and Literatures</td>
<td>3</td>
<td>REL</td>
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<tr>
<td>REL 6328</td>
<td>Religion and Culture of the West</td>
<td>3</td>
<td>REL</td>
<td></td>
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<tr>
<td>REL 6447</td>
<td>Liberation Theology</td>
<td>3</td>
<td>REL</td>
<td></td>
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<tr>
<td>REL 6617</td>
<td>The History of Judaism: The</td>
<td>3</td>
<td>REL</td>
<td>PR: REL 3602</td>
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<td>Course Title</td>
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<td>Prefix</td>
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<td>REL 6906</td>
<td>Independent Study</td>
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<td>AS</td>
<td>REL</td>
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<tr>
<td>REL 6911</td>
<td>Directed Research</td>
<td>1-4</td>
<td>AS</td>
<td>REL</td>
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<tr>
<td>REL 6938</td>
<td>Special Topics in Religious Studies</td>
<td>1-4</td>
<td>AS</td>
<td>REL</td>
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<tr>
<td>REL 6940</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>AS</td>
<td>REL</td>
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<tr>
<td>REL 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>REL</td>
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<td>SCE 5937</td>
<td>Selected Topics in Science Education</td>
<td>1-4</td>
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<tr>
<td>SCE 6616</td>
<td>Trends in Science Instruction</td>
<td>3</td>
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<td>SCE 6634</td>
<td>Current Trends in Secondary Science Education</td>
<td>3</td>
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<tr>
<td>SCE 6736</td>
<td>Research Implications for Teaching Pre-College Mathematics and Science</td>
<td>3</td>
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<tr>
<td>SCE 6737</td>
<td>Technology: Solving Societal Problems</td>
<td>3</td>
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<td>SCE 6738</td>
<td>Mathematics and Science Education Policy,</td>
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<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
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<tr>
<td>SCE 6761</td>
<td>Understanding Mathematics, Science, and Technology: Human Enterprises</td>
<td>3</td>
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<td>EDN</td>
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<tr>
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<td>Independent Study in Science Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDN</td>
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<tr>
<td>SCE 6947</td>
<td>Internship</td>
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<td>ED</td>
<td>EDN</td>
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<td>SCE 7910</td>
<td>Directed Research in Science Education</td>
<td>1-19</td>
<td>ED</td>
<td>EDN</td>
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<tr>
<td>SCE 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDN</td>
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<tr>
<td>SDS 6042</td>
<td>Introduction of Student Affairs</td>
<td>3</td>
<td>ED</td>
<td>EDG</td>
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<tr>
<td>SDS 6050</td>
<td>Comparative Guidance and Counseling</td>
<td>3</td>
<td>ED</td>
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<tr>
<td>SDS 6411</td>
<td>Introduction to Student Personnel Work in Higher Education</td>
<td>2</td>
<td>ED</td>
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<td>SDS 6621</td>
<td>Financial Aid Administration</td>
<td>2</td>
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<tr>
<td>SDS 6624</td>
<td>Ecology of Campus Life</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>SDS 6641</td>
<td>Student Affairs Auxiliary Functions</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>SDS 6645</td>
<td>Student Development Theory</td>
<td>3</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>SDS 6701</td>
<td>Issues in Diversity</td>
<td>2</td>
<td>ED</td>
<td>EDF</td>
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<tr>
<td>SDS 6801</td>
<td>Practicum in Counseling Children</td>
<td>4</td>
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<tr>
<td>SDS 6820</td>
<td>Internship in School Counseling</td>
<td>6 or 3</td>
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<td>EDG</td>
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<tr>
<td>SDS 7640</td>
<td>Student Affairs</td>
<td>4</td>
<td>ED</td>
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<td>Requirement</td>
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<tr>
<td>SDS 7642</td>
<td>Advanced Seminar in Student Affairs</td>
<td>1-4</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>SDS 7643</td>
<td>Advanced Student Development Theories</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
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<tr>
<td>SDS 7644</td>
<td>Enrollment Management</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
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<tr>
<td>SDS 7830</td>
<td>Advanced Internship in Counselor Education</td>
<td>2-8</td>
<td>ED</td>
<td>EDG</td>
</tr>
<tr>
<td>SDS 7945</td>
<td>Advanced Internship in Student Affairs</td>
<td>1-6</td>
<td>ED</td>
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<tr>
<td>SDS 7980</td>
<td>Dissertation</td>
<td>2-24</td>
<td>ED</td>
<td>EDF</td>
</tr>
<tr>
<td>SED 6943</td>
<td>Graduate Instruction Methods</td>
<td>1-4</td>
<td>AS</td>
<td>SPE</td>
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<tr>
<td>SLA 7910</td>
<td>Directed</td>
<td>1-6</td>
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<tr>
<td>SLA 7911</td>
<td>Second Language Acquisition Research Laboratory</td>
<td>1-4</td>
<td>ED</td>
<td>EDI</td>
</tr>
<tr>
<td>SLA 7938</td>
<td>Advanced Seminar in Second Language Acquisition</td>
<td>3</td>
<td>ED</td>
<td>EDI</td>
</tr>
<tr>
<td>SLA 7939</td>
<td>Advanced Seminar in Foreign Language Education</td>
<td>3</td>
<td>ED</td>
<td>EDX</td>
</tr>
<tr>
<td>SLA 7980</td>
<td>Dissertation</td>
<td>2-18</td>
<td>ED</td>
<td>EDX</td>
</tr>
<tr>
<td>SOP 6068</td>
<td>Personality and Social Psychology</td>
<td>3</td>
<td>AS</td>
<td>PSY</td>
</tr>
<tr>
<td>SOP 7609</td>
<td>Graduate Seminar in Social-Organizational Psychology</td>
<td>1-3</td>
<td>AS</td>
<td>PSY</td>
</tr>
<tr>
<td>SOW 5930C</td>
<td>Selected Topics in Social Work</td>
<td>1-4</td>
<td>AS</td>
<td>SOK</td>
</tr>
</tbody>
</table>

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.

This course, offered every semester, provides students with a variety of research tools and directed research experiences that eventually lead to production of publishable materials. Classes are conducted as seminars with instructor and students sharing leadership role. S/U

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.

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.

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.

Seminars on topics, such as social psychology, job stress, and decision making.

Restricted to Social Work majors, both graduate and undergraduate; other by School permission. Course is taken as an elective. Various title course will selectively expand specific social work content areas.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Type</th>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 6105</td>
<td>Foundations in Human Behavior</td>
<td>3</td>
<td>AS</td>
<td>SOK</td>
<td>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.</td>
</tr>
<tr>
<td>SOW 6114</td>
<td>Individual Growth and Development Theory</td>
<td>3</td>
<td>AS</td>
<td>SOK</td>
<td>This course presents various theoretical perspectives in individual growth and development commonly used in clinical practice with individuals, families, and groups. Ethnic, cultural, and lifestyle differences in normative development will be addressed, as will the influence of poverty, resource deprivation, sexual stereotyping, and illness/disability on social functioning.</td>
</tr>
<tr>
<td>SOW 6124</td>
<td>Theoretical Perspectives on Mental Dysfunction</td>
<td>3</td>
<td>AS</td>
<td>SOK</td>
<td>This third course in the behavior sequence focuses on mental and emotional disorders. Content includes broad classifications of mental and behavioral disorders and their biopsychological disorders and implications of social work practice in dealing with these disorders.</td>
</tr>
<tr>
<td>SOW 6126</td>
<td>Theoretical Perspectives on Physical Dysfunction</td>
<td>2</td>
<td>AS</td>
<td>SOK</td>
<td>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.</td>
</tr>
<tr>
<td>SOW 6235</td>
<td>Foundations of Social Welfare Policy</td>
<td>3</td>
<td>AS</td>
<td>SOK</td>
<td>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.</td>
</tr>
<tr>
<td>SOW 6236</td>
<td>Social Welfare Policy Analysis and Design</td>
<td>3</td>
<td>AS</td>
<td>SOK</td>
<td>Presents various methods of policy analysis with emphasis on distinctions among legislative, administrative, and judicial policy. Examines roles and responsibilities of the professional practitioner in the policy process.</td>
</tr>
<tr>
<td>SOW 6305</td>
<td>Fundamentals of Social Work Practice</td>
<td>3</td>
<td>AS</td>
<td>SOK</td>
<td>Describes full range of social work interventions, from micro to macro. Historical development of practice methods and survey of current techniques.</td>
</tr>
<tr>
<td>SOW 6342</td>
<td>Individual,</td>
<td>3</td>
<td>AS</td>
<td>SOK</td>
<td>Application of clinical practice to</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
<td>Type</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>SOW 6348</td>
<td>Clinical Practice Perspectives on Race and Culture</td>
<td>2</td>
<td>AS</td>
<td>SOK PR: CC</td>
<td>Theories for clinical practice, with emphasis on the psychosocial model. Explores basic skills for clinical practice.</td>
</tr>
<tr>
<td>SOW 6362</td>
<td>Individual, Family and Group Treatment II</td>
<td>4</td>
<td>AS</td>
<td>SOK PR: CC</td>
<td>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.</td>
</tr>
<tr>
<td>SOW 6368</td>
<td>Individual, Family and Group Treatment III</td>
<td>3</td>
<td>AS</td>
<td>SOK PR: CC</td>
<td>Focus on psychosocial model of group treatment. Comparison with individual and family modality.</td>
</tr>
<tr>
<td>SOW 6375</td>
<td>Macro Practice Seminar</td>
<td>3</td>
<td>AS</td>
<td>SOK PR: CC, SOW 6426, SOW 6368, SOW 6535</td>
<td>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.</td>
</tr>
<tr>
<td>SOW 6405</td>
<td>Foundations of Social Work Research and Statistics</td>
<td>3</td>
<td>AS</td>
<td>SOK</td>
<td>This is the first of four research methods courses intended to introduce students to the various methods, designs, measurements, and statistical techniques in social work research.</td>
</tr>
<tr>
<td>SOW 6425</td>
<td>Clinical Research</td>
<td>2</td>
<td>AS</td>
<td>SOK</td>
<td>This is the second in a series of four required research courses. It focuses on the design and implementation of evaluation studies in social work.</td>
</tr>
<tr>
<td>SOW 6426</td>
<td>Field Research I</td>
<td>1</td>
<td>AS</td>
<td>SOK GS in Social Work only.</td>
<td>This is the third in a series of four research courses. It provides the structure for supervision of graduate research projects.</td>
</tr>
<tr>
<td>SOW 6427</td>
<td>Field Research II</td>
<td>1</td>
<td>AS</td>
<td>SOK GS in Social Work only.</td>
<td>This is the fourth and final research course. It provides the mechanism for supervision of the graduate research project.</td>
</tr>
<tr>
<td>SOW 6534</td>
<td>Field Instruction I</td>
<td>3</td>
<td>AS</td>
<td>SOK PR: CC. S/U.</td>
<td>Supervised field instruction in a social service agency, consisting of 20 hours per week, plus a 3-hour practice seminar.</td>
</tr>
<tr>
<td>SOW 6535</td>
<td>Field Instruction II</td>
<td>6</td>
<td>AS</td>
<td>SOK PR: CC. S/U.</td>
<td>Supervised field instruction in a social service agency, consisting of 32 hours per week, plus a 2-hour practice seminar.</td>
</tr>
<tr>
<td>SOW 6536</td>
<td>Field Instruction III</td>
<td>4</td>
<td>AS</td>
<td>SOK PR: CC. S/U.</td>
<td>Supervised field instruction in a social service agency, consisting of 20 hours per week, plus a 2-hour practice seminar.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>SOW 6553</td>
<td>Field Instruction Sequence IA: Part-Time</td>
<td>2</td>
<td>AS</td>
<td>SOK</td>
<td>PR: SOW 6114, SOW 6348. CR: SOW 6124.</td>
</tr>
<tr>
<td>SOW 6554</td>
<td>Field Instruction Sequence IB: Part-Time</td>
<td>1</td>
<td>AS</td>
<td>SOK</td>
<td>PR: SOW 6553. S/U.</td>
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<tr>
<td>SOW 6555</td>
<td>Field Instruction Sequence IIA: Part-Time</td>
<td>2</td>
<td>AS</td>
<td>SOK</td>
<td>PR: SOW 6554.</td>
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<tr>
<td>SOW 6556</td>
<td>Field Instruction Sequence IIB: Part-Time</td>
<td>2</td>
<td>AS</td>
<td>SOK</td>
<td>PR: SOW 6555.</td>
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<tr>
<td>SOW 6557</td>
<td>Field Instruction Sequence IIC: Part-Time</td>
<td>2</td>
<td>AS</td>
<td>SOK</td>
<td>PR: SOW 6556.</td>
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<tr>
<td>SOW 6558</td>
<td>Field Instruction Sequence IIIA: Part-Time</td>
<td>2</td>
<td>AS</td>
<td>SOK</td>
<td>PR: SOW 6557.</td>
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<tr>
<td>SOW 6559</td>
<td>Field Instruction Sequence IIIB: Part-Time</td>
<td>2</td>
<td>AS</td>
<td>SOK</td>
<td>PR: SOW 6558.</td>
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<tr>
<td>SOW 6900</td>
<td>Independent Study</td>
<td>1-3</td>
<td>AS</td>
<td>SOK</td>
<td>PR: Admission to MSW program, CC.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>SOW 6931</td>
<td>Selected Topics in Social Work</td>
<td>1-4</td>
<td>AS SOK</td>
<td>PR: CC. Restricted to MSW students; others by School permission.</td>
<td>Calibration, usage, and specific applications of specialized instruments available for dealing with the identification and measurement of hearing disorders.</td>
</tr>
<tr>
<td>SPA 5132</td>
<td>Audiology Instrumentation</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: DPR.</td>
<td>Underlying principles and laboratory exercises in the use of audio recording, acoustic analysis, and clinical instrumentation.</td>
</tr>
<tr>
<td>SPA 5150L</td>
<td>Speech Science Instrumentation</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: DPR or SPA 3011 or equivalent.</td>
<td>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.</td>
</tr>
<tr>
<td>SPA 5204</td>
<td>Advanced Clinical Phonology</td>
<td>3</td>
<td>AS CSD</td>
<td></td>
<td>Fundamental mathematical and statistical concepts; meaningful, practical, and interesting presentation. Students get a solid foundation in the mathematical and statistical concepts in CSD and apply those concepts to solve practical or clinical problems.</td>
</tr>
<tr>
<td>SPA 5281</td>
<td>Quantitative Problem Solving in Speech Pathology and Audiology</td>
<td>2</td>
<td>AS CSD</td>
<td></td>
<td>Provide a comprehensive understanding of the physiological acoustics of the auditory periphery, neuroanatomy and electrophysiology of the central auditory system, and psychoacoustic principles as they relate to clinical audiologic measurement paradigms.</td>
</tr>
<tr>
<td>SPA 5303</td>
<td>Auditory Anatomy and Physiology</td>
<td>3</td>
<td>AS CSD</td>
<td></td>
<td>The study of behavioral and electro physiologic clinical tests designed to assess the functions of the peripheral and the central auditory system. Tests that incorporate nonspeech stimuli and those that utilize speech stimuli will be included.</td>
</tr>
<tr>
<td>SPA 5328</td>
<td>Rehabilitative Audiology for Adults</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: DPR.</td>
<td>Metalinguistic and metacognitive</td>
</tr>
<tr>
<td>SPA 5408</td>
<td>Language-</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: SPA 4201</td>
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<tr>
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<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>SPA 5506</td>
<td>Speech-Language Pathology and Audiology Practicum</td>
<td>1-8 AS</td>
<td>CSD</td>
<td>PR: DPR.</td>
<td>Participation in speech-language pathology and audiology practicum in the University Communication Disorders Center and selected field settings.</td>
</tr>
<tr>
<td>SPA 5552</td>
<td>Diagnostic Principles and Practices</td>
<td>3 AS</td>
<td>CSD</td>
<td>PR: Admission to the graduate program or DPR.</td>
<td>The administration, evaluation, and reporting of diagnostic tests and procedures used in assessment of speech and language disorders.</td>
</tr>
<tr>
<td>SPA 6104</td>
<td>Neuroanatomy for Speech and Hearing</td>
<td>3 AS</td>
<td>CSD</td>
<td>PR: SPA 3101.</td>
<td>Neuroanatomical and neurophysiological principles, structures and functions that subserve speech, hearing, language, and cognition are studied. A case-based approach illustrates the behavioral manifestations of neuropathologies. Majors only.</td>
</tr>
<tr>
<td>SPA 6106</td>
<td>Neurological Correlates of Language</td>
<td>3 AS</td>
<td>CSD</td>
<td>PR: DPR.</td>
<td>Review of the anatomy and physiology of the nervous system. Discuss neurological correlates of receptive and expressive language in verbal and non-verbal transmission and feedback.</td>
</tr>
<tr>
<td>SPA 6232</td>
<td>Neuromotor Communication Disorders</td>
<td>3 AS</td>
<td>CSD</td>
<td>PR: DPR.</td>
<td>A study of the medical, physical, occupational, speech, language, and hearing problems of the neuro-motorically impaired client. Therapy techniques are reviewed and evaluated.</td>
</tr>
<tr>
<td>SPA 6245</td>
<td>Craniofacial Communication Disorders</td>
<td>3 AS</td>
<td>CSD</td>
<td>PR: DPR.</td>
<td>An in-depth study of speech, language, and hearing problems associated with cleft lip and cleft palate and other craniofacial dysmorphologies. Consideration is given to the multidisciplinary approach to therapy and rehabilitation.</td>
</tr>
<tr>
<td>SPA 6314</td>
<td>Electrophysiology</td>
<td>3 AS</td>
<td>CSD</td>
<td>PR: SPA 5303 and SPA 5312 or DPR.</td>
<td>This course focuses on the auditory brainstem response (ABR) as an essential diagnostic and screening tool. The course follows a combined</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Notes</td>
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<tr>
<td>SPA 6316</td>
<td>Vestibular Evaluation and Treatment</td>
<td>3</td>
<td>AS CSD PR: SPA 5303 and SPA 5312 or DPR.</td>
<td>lecture/laboratory mode with weekly class meetings and weekly laboratory exercise. Principles and clinical practices of assessing the peripheral and central components of the human vestibular system using electrical recordings of induced and spontaneous nystagmus.</td>
<td></td>
</tr>
<tr>
<td>SPA 6318</td>
<td>Medical Audiology</td>
<td>3</td>
<td>AS CSD PR: Psychoacoustic s, Advanced Hearing Science, Clinic Lab I.</td>
<td>Anatomy &amp; patho-physiology of the auditory system, medical genetics, congenital &amp; acquired ear diseases, disorders of balance, &amp; tinnitus. These areas will be related to audiology test results; diagnostic imaging, medical &amp; surgical treatments.</td>
<td></td>
</tr>
<tr>
<td>SPA 6322</td>
<td>Aural Rehabilitation: Children</td>
<td>3</td>
<td>AS CSD PR: DPR.</td>
<td>Provide information and strategies for aural habilitation intervention with hearing impaired children. Includes techniques of speech reading, auditory training, and language for hearing impaired.</td>
<td></td>
</tr>
<tr>
<td>SPA 6324</td>
<td>Educational Audiology</td>
<td>3</td>
<td>AS CSD</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SPA 6326</td>
<td>Curriculum Procedures and Materials for the Hearing Impaired</td>
<td>3</td>
<td>AS CSD PR: Major in Aural Rehabilitation or DPR.</td>
<td>Curricular adaptation, methods, techniques, and organization necessary for teaching the hearing impaired.</td>
<td></td>
</tr>
<tr>
<td>SPA 6329</td>
<td>Reading for the Hearing Impaired</td>
<td>2</td>
<td>AS CSD PR: RED 4310, RED 4515, and DPR.</td>
<td>Techniques and materials for teaching reading to children with auditory disorders. Evaluation and analysis of contemporary programs and methods.</td>
<td></td>
</tr>
<tr>
<td>SPA 6345</td>
<td>Principles of Amplification I</td>
<td>3</td>
<td>AS CSD</td>
<td>Provide information and training concerning the design and measurement of the modern hearing aid. The history of hearing aids, types of hearing aids, hearing aid components, measurement and modification of hearing aid response, and earmold acoustics.</td>
<td></td>
</tr>
<tr>
<td>SPA 6348</td>
<td>Principles of Amplification II</td>
<td>3</td>
<td>AS CSD PR: SPA 6345.</td>
<td>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</td>
<td></td>
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<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
<td>Grading</td>
<td>Prerequisites</td>
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<tr>
<td>SPA 6354</td>
<td>Hearing Conservation</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: DPR.</td>
<td>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.</td>
</tr>
<tr>
<td>SPA 6390</td>
<td>Profession of Audiology</td>
<td>2</td>
<td>AS CSD</td>
<td></td>
<td>Acquaint students with a basic understanding of the profession of Audiology. Topics covered include: Historical underpinnings, scope of practice, ethics, legal issues, evidence-based practice, professional organizations, and current issues.</td>
</tr>
<tr>
<td>SPA 6401</td>
<td>Pediatric Language Disorders</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: DPR.</td>
<td>An examination of the pre-verbal and language skills of the infant and preschool child, and of the Speech-Language Pathologist's role in the diagnosis, treatment, and as parent-trainer for these children.</td>
</tr>
<tr>
<td>SPA 6403</td>
<td>Language Learning Disabilities</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: DPR.</td>
<td>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.</td>
</tr>
<tr>
<td>SPA 6410</td>
<td>Aphasia and Related Disorders</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: SPA 6106 and DPR.</td>
<td>Consideration of the neurological and psychological aspects of aphasia and related disorders as they relate to communication disorders. Specific language therapy approaches are discussed and evaluated.</td>
</tr>
<tr>
<td>SPA 6413</td>
<td>Augmentative and Alternative Communication</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: DPR.</td>
<td>This course details the in-depth assessment and treatment of communication modes in non-speaking individuals. Students will be presented with the variety of aided and unaided systems which exist for helping non-speaking persons; students gain experience in the use of these devices.</td>
</tr>
<tr>
<td>SPA 6421</td>
<td>Language for the Hearing Impaired</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: SPA 3030, SPA 3310, SPA 4363, and DPR.</td>
<td>Techniques and materials of teaching language to children with auditory disorders as well as evaluation and analysis of contemporary intervention and clinical methods.</td>
</tr>
<tr>
<td>SPA 6422</td>
<td>Speech Perception and Production for the Hearing</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: SPA 3310, SPA 3311 or CC.</td>
<td>In depth study of the effects of hearing loss on speech perception and on the development of speech production skills in children. Methods for testing/training speech perception/production skills in the</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
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<tr>
<td>SPA 6473</td>
<td>Multicultural Differences in Language</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: CI</td>
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<td>The focus is on developing intercultural competencies to design and implement more culturally and linguistically appropriate services for individuals with communication disorders or differences.</td>
</tr>
<tr>
<td>SPA 6505</td>
<td>Practicum</td>
<td>1-10</td>
<td>AS CSD</td>
<td>PR: DPR</td>
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<td>Participation in speech-language pathology and audiology practicum in the University clinical laboratory and selected field settings.</td>
</tr>
<tr>
<td>SPA 6553</td>
<td>Advanced Differential Diagnosis and Treatment Planning</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: DPR</td>
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<td>The interpretation of evaluation results and the integration of these data in order to make a differential diagnosis leading to an appropriate therapy plan. The administration, evaluation, and reporting of advanced evaluation techniques not covered in SPA 5552.</td>
</tr>
<tr>
<td>SPA 6601</td>
<td>Ethical Practice Issues in Communication Sciences and Disorders</td>
<td>2</td>
<td>AS CSD</td>
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<td>Topics include: legal and ethical issues affecting practice, licensure, and ASHA certification, the ASHA Code of ethics, laws and regulations governing practice in health care and educational settings, quality assurance standards.</td>
</tr>
<tr>
<td>SPA 6676</td>
<td>Speech Perception and Sensorineural Hearing Loss</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: SPA 3310, SPA 3030.</td>
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<td></td>
<td>Overview of the acoustics of speech and theories of speech perception. Speech perception in listeners with normal and impaired hearing. The role of speech audiometry in clinical assessment of speech perception abilities and central auditory processing.</td>
</tr>
<tr>
<td>SPA 6805</td>
<td>Research Procedures in Communication Sciences and Disorders</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: DPR</td>
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<tr>
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<td>Advanced research and experimental design techniques employed in clinical and laboratory settings in speech-language pathology and audiology.</td>
</tr>
<tr>
<td>SPA 6906</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS CSD</td>
<td>PR: DPR, S/U grading only.</td>
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<td>Independent study in which students must have a contract with an instructor.</td>
</tr>
<tr>
<td>SPA 6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS CSD</td>
<td>PR: GR. ML, DPR. S/U grading only.</td>
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<tr>
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<td>A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member.</td>
</tr>
<tr>
<td>SPA 6930</td>
<td>Selected Topics</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: DPR</td>
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<td></td>
<td>A reading program of topics in speech pathology and/or audiology conducted under the supervision of a faculty member.</td>
</tr>
<tr>
<td>SPA 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS CSD</td>
<td>PR: DPR</td>
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<td>Advanced study of the acoustics, production, and perception of normal</td>
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<tr>
<td>SPA 7150</td>
<td>Advanced Speech</td>
<td>3</td>
<td>AS CSD</td>
<td>PR: SPA 3011 or equivalent;</td>
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<td>Advanced study of the acoustics, production, and perception of normal</td>
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<td>Coreqs</td>
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<tr>
<td>SPA</td>
<td>Neurolinguistic Theories of Language</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: SPA 6410, SPA 6232 and DPR.</td>
<td>Neurolinguistic theories as appropriate to the discipline are presented and discussed in relationship to language development and disorders. Information from linguistics, psycholinguistics, artificial intelligence, neuroanatomy, and other sciences are applied to Language Science.</td>
</tr>
<tr>
<td>SPA</td>
<td>Seminar in Communicaton Sciences and Disorders</td>
<td>3</td>
<td>AS</td>
<td>CSD PR: DPR.</td>
<td>Addresses the central research and clinical issues related to the diagnosis and treatment of communication disorders. Content of seminars varies with instructor's expertise.</td>
</tr>
<tr>
<td>SPC</td>
<td>Topics in Rhetorical Analysis</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Introduces a variety of critical perspectives applied to rhetoric in specialized contexts. Topics vary depending upon interest of students and faculty.</td>
</tr>
<tr>
<td>SPC</td>
<td>Topics in Discourse</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Variable topics course.</td>
</tr>
<tr>
<td>SPC</td>
<td>Ethnography of Communicati on</td>
<td>3</td>
<td>AS</td>
<td>SPE PR: Graduate Standing.</td>
<td>Explores ethnography as an approach to conducting research and a means of theorizing about human communication.</td>
</tr>
<tr>
<td>SPC</td>
<td>Survey of Rhetorical Theory</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Historical development of rhetorical theory from Plato to contemporary theorists with emphasis upon the evolution of trends and concepts in rhetorical theory.</td>
</tr>
<tr>
<td>SPC</td>
<td>Contemporary Rhetorical Theory</td>
<td>3</td>
<td>AS</td>
<td>SPE PR: GS.</td>
<td>Basic texts in 20th century rhetorical theory. Readings may vary.</td>
</tr>
<tr>
<td>SPC</td>
<td>Interpersonal Communicati on</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Study of theory and research related to interpersonal communication.</td>
</tr>
<tr>
<td>SPC</td>
<td>Family Communication</td>
<td>3</td>
<td>AS</td>
<td>SPE PR: Graduate Standing.</td>
<td>This course examines the family in terms of the patterns of interaction through which meanings are produced. Family communication concepts and theories will be introduced as they relate to diverse family forms and experiences.</td>
</tr>
<tr>
<td>SPC</td>
<td>Persuasion</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>Study of contemporary theories and research in persuasion.</td>
</tr>
<tr>
<td>SPC</td>
<td>Rhetoric in Society</td>
<td>3</td>
<td>AS</td>
<td>SPE PR: GS.</td>
<td>Examination of ways in which rhetoric reflects and molds social processes, including social integration and/or alienation; social</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Credits</td>
<td>Units</td>
<td>Grade</td>
<td>Notes</td>
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<tr>
<td>SPC 6682</td>
<td>Rhetorical Criticism</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>The study of theoretical perspectives in rhetorical criticism. The application of criticism to selected rhetorical situations.</td>
</tr>
<tr>
<td>SPC 6726</td>
<td>Communication in Close Relationships</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>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.</td>
</tr>
<tr>
<td>SPC 6728</td>
<td>Communicating Grief, Loss, and Illness</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>How illness and loss disrupt our stories of self and relationships and lead to construction of new stories, also cultural patterns of stories. Topics include critical illness and relationships, dying, bodies, emotions, caregiving, aging, and divorce.</td>
</tr>
<tr>
<td>SPC 6903</td>
<td>Directed Readings</td>
<td>1-4</td>
<td>AS</td>
<td>SPE</td>
<td>PR: CC.</td>
</tr>
<tr>
<td>SPC 6934</td>
<td>Selected Topics in Communication</td>
<td>1-4</td>
<td>AS</td>
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<tr>
<td>SPC 6935</td>
<td>Pro Seminar in Communication</td>
<td>1-3</td>
<td>AS</td>
<td>SPE</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>SPC 7900</td>
<td>Doctoral Research Tutorial</td>
<td>1-3</td>
<td>AS</td>
<td>SPE</td>
<td>PR: Admitted to doctoral program.</td>
</tr>
<tr>
<td>SPC 7930</td>
<td>Seminar in Rhetorical Studies</td>
<td>3</td>
<td>AS</td>
<td>SPE</td>
<td>PR: GS.</td>
</tr>
<tr>
<td>SPN 5525</td>
<td>Modern Spanish American Civilization</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: SPN 3520 or equivalent or graduate standing.</td>
</tr>
<tr>
<td>SPN 5567</td>
<td>Modern Spanish Civilization</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: SPN 3500 or equivalent or graduate</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Sequence</td>
<td>Prerequisite</td>
<td>Description</td>
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<tr>
<td>SPN 6795</td>
<td>Phonology and Dialectology</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: SPN 3300. A study of the Spanish sound system.</td>
</tr>
<tr>
<td>SPN 6845</td>
<td>History of the Spanish Language</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Traces the development of Spanish from its Latin origins to the present.</td>
</tr>
<tr>
<td>SPN 6940</td>
<td>Graduate Instruction Methods</td>
<td>1-3</td>
<td>AS</td>
<td>WLE S/U</td>
<td>Special course to be used primarily for the training of teaching assistants.</td>
</tr>
<tr>
<td>SPS 6101</td>
<td>Child and Adolescent Behavior Disorders</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>Theoretical and empirical identification and understanding of children and adolescents with behavior disorders. Treatment issues as they relate to school psychological services.</td>
</tr>
<tr>
<td>SPS 6196</td>
<td>Assessment of Child and Adolescent Personality</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>Conceptualizations of personality and personality assessment; perspectives of disturbed and disturbing behavior, and personality assessment measures.</td>
</tr>
<tr>
<td>SPS 6197</td>
<td>Psychoeducational Diagnosis and Prescription I</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: Acceptance to graduate program in School Psychology. 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.</td>
</tr>
<tr>
<td>SPS 6198</td>
<td>Psychoeducational Diagnosis and Prescription II</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: Acceptance to graduate program in School Psychology. 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.</td>
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<td>Course Code</td>
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<td>Course Description</td>
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<tr>
<td>SPS 6700C</td>
<td>Psychoeducational Interventions With Children and Adolescents I</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>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.</td>
</tr>
<tr>
<td>SPS 6701C</td>
<td>Psychoeducational Interventions With Children and Adolescents II</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>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.</td>
</tr>
<tr>
<td>SPS 6702C</td>
<td>Psychoeducational Interventions With Children and Adolescents III</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>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.</td>
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</table>
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.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Field</th>
<th>Notes</th>
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<tbody>
<tr>
<td>SPS 6806</td>
<td>Developmental Bases of Diverse Behaviors</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
<td>This course deals with some of the major social and educational policy concerns posed by developmental and cultural diversity in our society.</td>
</tr>
<tr>
<td>SPS 6936</td>
<td>Graduate Seminar in School Psychology</td>
<td>1-3</td>
<td>ED</td>
<td>EDF</td>
<td>PR: CI. Seminars to explore current matters of professional concern in school psychology, such as trends, problems, legal and ethical issues, and empirical bases of techniques.</td>
</tr>
<tr>
<td>SPS 6940</td>
<td>Practicum in Psychoeducational Interventions</td>
<td>1-4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: Concurrent enrollment in Psychoeducational Interventions with Children and Adolescents - I or II (SPS 6700C or SPS 6701C), or DPR.</td>
</tr>
<tr>
<td>SPS 6941</td>
<td>Practicum in Psychoeducational Interventions</td>
<td>1-4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: Concurrent enrollment in Psychoeducational Interventions with Children and Adolescents - I or II (SPS 6700C or SPS 6701C), or DPR.</td>
</tr>
<tr>
<td>SPS 6947</td>
<td>Internship</td>
<td>1-9</td>
<td>ED</td>
<td>EDF</td>
<td>Open to School Psychology graduate degree candidates only. Involves field-based, supervised experience of 1,500 (minimum) clock hours at the Educational Specialist level and 2,000 (minimum) clock hours at the Doctoral level.</td>
</tr>
<tr>
<td>SPS 7090</td>
<td>Supervision Processes</td>
<td>4</td>
<td>ED</td>
<td>EDF</td>
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<td>Course Title</td>
<td>Units</td>
<td>Type</td>
<td>EDF</td>
<td>PR:</td>
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<tr>
<td>SPS 7199</td>
<td>Advanced Psychoeducational Assessment</td>
<td>2-4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: SPS 6197/SPS 6198 or DPR.</td>
</tr>
<tr>
<td>SPS 7205</td>
<td>Advanced Consultation Processes in School Psychology</td>
<td>2-4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: EDF 6166, or DPR.</td>
</tr>
<tr>
<td>SPS 7700</td>
<td>Advanced Psychoeducational Interventions</td>
<td>2-4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: SPS 6700C/SPS 6701C and SPS 6940/SPS 6941, or DPR.</td>
</tr>
<tr>
<td>SPS 7701</td>
<td>Advanced Child and Adolescent Psychotherapy</td>
<td>2-4</td>
<td>ED</td>
<td>EDF</td>
<td>PR: SPS 6702C, or DPR.</td>
</tr>
<tr>
<td>SPS 7910</td>
<td>Directed Research in School Psychology</td>
<td>1-19</td>
<td>ED</td>
<td>EDF</td>
<td>PR: CI.</td>
</tr>
<tr>
<td>SPS 7936</td>
<td>Advanced Seminar in School Psychology</td>
<td>1-3</td>
<td>ED</td>
<td>EDF</td>
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</tr>
<tr>
<td>SPS 7980</td>
<td>Dissertation</td>
<td>2-30</td>
<td>ED</td>
<td>EDF</td>
<td>PR: Admission to Candidacy.</td>
</tr>
<tr>
<td>SPW 5135</td>
<td>Colonial Spanish American Literature</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: SPW 4131.</td>
</tr>
<tr>
<td>SPW 5355</td>
<td>Spanish American Drama and Poetry</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: SPW 4131.</td>
</tr>
<tr>
<td>SPW 5388</td>
<td>Golden Age Poetry and Drama</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: SPW 4100.</td>
</tr>
<tr>
<td>SPW 5405</td>
<td>Medieval Literature</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>PR: SPW 4100 or equiv.</td>
</tr>
<tr>
<td>SPW</td>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Focus</td>
<td>Notes</td>
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<tr>
<td>SPW</td>
<td>5605</td>
<td>Cervantes</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cervantes' masterpiece Don Quijote de la Mancha.</td>
</tr>
<tr>
<td>SPW</td>
<td>5725</td>
<td>Generation of 1898</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td></td>
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<td></td>
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<td></td>
<td>PR: SPW 4101.</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>The major figures of the period and their main followers.</td>
</tr>
<tr>
<td>SPW</td>
<td>5726</td>
<td>Vanguard Literature 1918 and 1936</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td></td>
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<td>PR: SPW 4101.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A study of Vanguard literature in Spain between 1918 and 1936.</td>
</tr>
<tr>
<td>SPW</td>
<td>5934</td>
<td>Selected Topics</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>PR: Upper-level or GS.</td>
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<tr>
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<td></td>
<td></td>
<td>Study of an author, movement, or theme.</td>
</tr>
<tr>
<td>SPW</td>
<td>6428</td>
<td>Golden Age Novel</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
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<td></td>
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<td>PR: SPW 4101.</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>Realistic prose-fiction of the Renaissance and Golden Age.</td>
</tr>
<tr>
<td>SPW</td>
<td>6485</td>
<td>Post Civil War Literature</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
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<td></td>
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<td>PR: SPW 4101.</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>The drama and novel since 1936.</td>
</tr>
<tr>
<td>SPW</td>
<td>6775</td>
<td>Caribbean Literature</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PR: SPW 4131</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Emphasis on contemporary Cuban and Puerto Rican literature.</td>
</tr>
<tr>
<td>SPW</td>
<td>6910</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS</td>
<td>WLE</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PR: GR. ML, CC. S/U.</td>
</tr>
<tr>
<td>SPW</td>
<td>6936</td>
<td>Graduate Seminar</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
</tr>
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<td>PR: CC</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>Topics vary.</td>
</tr>
<tr>
<td>SPW</td>
<td>6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS</td>
<td>WLE</td>
</tr>
<tr>
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<td>PR: CC. S/U.</td>
</tr>
<tr>
<td>SSE</td>
<td>5331</td>
<td>Foundations, Curriculum &amp; Instruction of Social Science Education</td>
<td>3</td>
<td>ED</td>
<td>EDI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>SSE</td>
<td>5332</td>
<td>Methods &amp; Strategies in Social Science Education</td>
<td>3</td>
<td>ED</td>
<td>EDI</td>
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<td>Social studies methods and strategies are examined with an emphasis on the secondary school environment. The teaching profession, school settings, and current issues are examined. Students are expected to plan and present instructional plan(s) appropriate to senior high school demonstrating command of the course content.</td>
</tr>
<tr>
<td>SSE</td>
<td>5641</td>
<td>Reading and Basic Skills in the Content Area</td>
<td>3</td>
<td>ED</td>
<td>EDI</td>
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<tr>
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<td></td>
<td>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.</td>
</tr>
<tr>
<td>SSE</td>
<td>5644</td>
<td>Economic Decision-Making for</td>
<td>3</td>
<td>ED</td>
<td>EDW</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>PR: Admission to College of Education or</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>Provides teachers (K-12) with content related to the operation of businesses in a market economy.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Grade Points</td>
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<tr>
<td>SSE 6617</td>
<td>Trends in K-6 Social Science Education</td>
<td>3</td>
<td>ED</td>
<td>EDE</td>
<td></td>
</tr>
<tr>
<td>PR: Dual Track or MAT Admission.</td>
<td></td>
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<tr>
<td>SSE 6636</td>
<td>Trends in Secondary Social Science Education</td>
<td>3</td>
<td>ED</td>
<td>EDW</td>
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</tr>
<tr>
<td>PR: SSE 4333, SSE 4334, SSE 4335.</td>
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<tr>
<td>SSE 6906</td>
<td>Independent Study in Social Sciences Education</td>
<td>1-6</td>
<td>ED</td>
<td>EDW</td>
<td></td>
</tr>
<tr>
<td>An opportunity for advanced graduate students to examine a specific issue or topic in the field of social science education.</td>
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<tr>
<td>SSE 6932</td>
<td>Selected Topics in Social Science Education</td>
<td>3</td>
<td>ED</td>
<td>EDI</td>
<td></td>
</tr>
<tr>
<td>PR: Admission to Masters</td>
<td></td>
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<tr>
<td>SSE 6947</td>
<td>Internship</td>
<td>6</td>
<td>ED</td>
<td>EDI</td>
<td></td>
</tr>
<tr>
<td>PR: CI.</td>
<td></td>
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</tr>
<tr>
<td>SSE 7700</td>
<td>Social Science Curriculum and Instruction Issues</td>
<td>4</td>
<td>ED</td>
<td>EDI</td>
<td></td>
</tr>
<tr>
<td>PR: Admittance to the Social Science Ph.D. program.</td>
<td></td>
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</tr>
<tr>
<td>SSE 7710</td>
<td>Research in Social Science Education</td>
<td>4</td>
<td>ED</td>
<td>EDI</td>
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</tr>
<tr>
<td>PR: Admittance to the Social Science Ph.D. program.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Schedule</td>
<td>Prerequisites</td>
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<tr>
<td>SSE 7720</td>
<td>Social Science Education Technological Innovations</td>
<td>4</td>
<td>ED</td>
<td>EDI</td>
<td>PR: Admittance to the Social Science Ph.D. program.</td>
</tr>
<tr>
<td>SSE 7730</td>
<td>Philosophy of Social Science Education</td>
<td>4</td>
<td>ED</td>
<td>EDI</td>
<td>PR: Admittance to the Social Science Ph.D. program.</td>
</tr>
<tr>
<td>SSE 7910</td>
<td>Directed Research in Social Sciences Education</td>
<td>1-19</td>
<td>ED</td>
<td>EDW</td>
<td>PR: CI</td>
</tr>
<tr>
<td>SSE 7945</td>
<td>Applied Research in Social Science Education</td>
<td>2</td>
<td>ED</td>
<td>EDI</td>
<td>PR: Admittance to the Social Science Ph.D. program.</td>
</tr>
<tr>
<td>SSE 7980</td>
<td>Dissertation in Social Science Education</td>
<td>2-24</td>
<td>ED</td>
<td>EDW</td>
<td>PR: Admission to Candidacy Rpt.</td>
</tr>
<tr>
<td>STA 5166</td>
<td>Statistical Methods I</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: STA 4321 or CI.</td>
</tr>
<tr>
<td>STA 5326</td>
<td>Mathematical Statistics I</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: STA 5446.</td>
</tr>
<tr>
<td>STA 5446</td>
<td>Probability Theory I</td>
<td>3</td>
<td>AS</td>
<td>MTH</td>
<td>PR: STA 4442 and MAA 4212</td>
</tr>
</tbody>
</table>
moments and moment generating functions, modes of convergence, limit theory for sums of independent random variables.

STA 5526 Non-Parametric Statistics 3 AS MTH PR: STA 5326 or CC. Theory and methods of non-parametric statistics, order statistics, tolerance regions, and their applications.


STA 6206 Stochastic Processes 4 AS MTH PR: STA 5446. Poisson processes, renewal theorems, Markov chains on a countable state space, continuous-time Markov processes with a countable state space, birth and death processes, branching processes, introduction to Brownian motion.

STA 6208 Linear Statistical Models 3 AS MTH PR: STA 5167 or STA 5326 or CI. Distribution theory, estimation, and hypothesis testing for the general linear model. Experimental designs, including randomized block and incomplete block designs. Multiple regression, ANOVA, and ANCOVA.

STA 6447 Probability Theory II 3 AS MTH PR: STA 5446 and MAA 5306 or CI. Characteristic functions, central limit theorem, martingale inequalities and convergence theorems, optional stopping, ergodic theorems and applications.

STA 6746 Multivariate Analysis 3 AS MTH PR: STA 5326 or CI. Multivariate normal distribution; its properties and inference; matrix random variables; multiple and partial correlation; discriminant analysis, principle components and factor analysis; multivariate ANOVA; analysis of covariance; applications using computers.


SYA 6126 Contemporary Sociological Theory 3 AS SOC PR: Undergraduate course in sociological theory or CI Emphasizes logical and conceptual dimensions of theory and theory construction.

SYA 6204 Social 3 AS SOC PR: GS or An examination of social problems
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
<th>Approval</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYA 6205</td>
<td>Social Construction of Reality</td>
<td>3</td>
<td>AS SPE</td>
<td>PR: Graduate Standing.</td>
<td>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.</td>
</tr>
<tr>
<td>SYA 6305</td>
<td>Methods of Research</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: Undergraduate course in sociological research methods or CI.</td>
<td>Logic and practice of research; problems of observation and data collection, data processing, and evaluation.</td>
</tr>
<tr>
<td>SYA 6315</td>
<td>Qualitative Research Methods</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: Undergraduate course in sociological research methods or CI.</td>
<td>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.</td>
</tr>
<tr>
<td>SYA 6405</td>
<td>Sociological Statistics</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: Undergraduate statistics course or CI.</td>
<td>Logic and application of parametric and nonparametric statistical analysis for sociological data.</td>
</tr>
<tr>
<td>SYA 6437</td>
<td>SPSS and Social Research</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: Research Methods and Statistics.</td>
<td>Provides students with practical experience using SPSS (Statistical Package for the Social Sciences). Introduces students to measurement of sociological variables, data processing, and various parametric and nonparametric data analysis procedures.</td>
</tr>
<tr>
<td>SYA 6475</td>
<td>Community Analysis</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: Undergraduate course in urban sociology, sociology of organizations, or CI.</td>
<td>Theories of community and community organization. Methods of community study; problems of urban areas.</td>
</tr>
<tr>
<td>SYA 6505</td>
<td>The Communication of Sociology</td>
<td>1-3</td>
<td>AS SOC</td>
<td></td>
<td>Designed to help students define and formalize more effective efforts at communicating sociology.</td>
</tr>
<tr>
<td>SYA 6909</td>
<td>Independent Study</td>
<td>1-19</td>
<td>AS SOC</td>
<td>PR: GS, CI. S/U.</td>
<td>Independent study in which student must have a contract with an instructor.</td>
</tr>
<tr>
<td>SYA 6912</td>
<td>Directed Research</td>
<td>1-19</td>
<td>AS SOC</td>
<td>PR: GS, CI. S/U.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Course Description</td>
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<tr>
<td>SYA 6933</td>
<td>Special Topics Sociology</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: GS.</td>
<td>Content varies according to interests of students and instructor.</td>
</tr>
<tr>
<td>SYA 6971</td>
<td>Thesis: Master's</td>
<td>2-19</td>
<td>AS SOC</td>
<td>PR: CC. S/U.</td>
<td>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.</td>
</tr>
<tr>
<td>SYD 6706</td>
<td>Race and Ethnicity</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: GS or Departmental Approval.</td>
<td></td>
</tr>
<tr>
<td>SYG 6936</td>
<td>Seminar in Teaching Sociology</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: GS or Departmental Approval.</td>
<td>Provides a key link for future teaching sociologists, assisting them to make the switch from consumers to educators of the sociological perspective. Places equal emphasis on theoretical and practical issues surrounding teaching sociology.</td>
</tr>
<tr>
<td>SYO 5365</td>
<td>Industrial Sociology</td>
<td></td>
<td>AS SOC</td>
<td></td>
<td>Theory of interpersonal relations and interaction in the modern family. Analysis of functions and roles.</td>
</tr>
<tr>
<td>SYO 6125</td>
<td>Family Analysis</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: Course in family or CI.</td>
<td></td>
</tr>
<tr>
<td>SYO 6255</td>
<td>Seminar in Sociology of Education</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: GS or Departmental Approval.</td>
<td>Sociological analysis of the institution of education. Primary attention directed toward class, race, and gender inequalities and educational transformations.</td>
</tr>
<tr>
<td>SYO 6406</td>
<td>Sociology of Health and Illness</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: GS.</td>
<td>Survey of core concepts and current research in the sociology of health and illness: social correlates of disease, health care utilization, physician-patient relations, medical compliance, and illness behavior.</td>
</tr>
<tr>
<td>SYO 6545</td>
<td>Complex Organizations</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: Course in social organizations or CI.</td>
<td>Organizational theory, bureaucratic models, authority, power legitimation, and types of formal organization.</td>
</tr>
<tr>
<td>SYO 7435</td>
<td>Sociology of Disability in Urban Society</td>
<td>3</td>
<td>AS SOC</td>
<td></td>
<td>This course critically evaluates current controversies over the utility of a variety of theoretical perspectives and research methods in understanding the lived experience of disability in 21st century urban society.</td>
</tr>
<tr>
<td>SYP 6306</td>
<td>Comparative Social Movements</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: GS or department approval.</td>
<td>Provides an overview of the various theoretical perspectives used to explain the emergence, growth, strategies and success of social movements in contemporary America and in other countries.</td>
</tr>
<tr>
<td>SYP 6425</td>
<td>Sociology of Consumer</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: GS or department</td>
<td>This course critically examines the key theories and analyses of</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department Code</td>
<td>Prerequisites</td>
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<tr>
<td>SYP 6515</td>
<td>Sociology of Deviance</td>
<td>3</td>
<td>AS SOC</td>
<td>PR: GS or Department Approval.</td>
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<td>Develops knowledge of traditional theories of deviance as well as critiques them. Through development of alternative perspectives, challenges constructions of deviance and the mechanisms of power.</td>
<td></td>
</tr>
<tr>
<td>TAX 5015</td>
<td>Federal Taxation of Business Entities</td>
<td>3</td>
<td>BA ACC</td>
<td>PR: TAX 4001 with a grade of \</td>
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<tr>
<td></td>
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<td></td>
<td>A study of advanced income tax problems involving partnerships, including organization, operation, distributions, liquidations, basis, family partnerships, and sales and exchanges. The planning and business aspects of partnerships are emphasized.</td>
<td></td>
</tr>
<tr>
<td>TAX 6005</td>
<td>Advanced Partnership Taxation</td>
<td>3</td>
<td>BA ACC</td>
<td>PR: TAX 4001.</td>
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<tr>
<td></td>
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<td></td>
<td>This is the first of two sequential courses on Advanced Corporate Taxation. This course studies advanced income tax problems involving corporations, including organization, operation, distribution, and liquidation. Topics include \</td>
<td></td>
</tr>
<tr>
<td>TAX 6016</td>
<td>Advanced Corporate Taxation I</td>
<td>3</td>
<td>BA ACC</td>
<td>PR: TAX 6001.</td>
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<td>This is the second of two sequential courses on Advanced Corporate Taxation. This course covers advanced corporation topics including multiple corporations, transfer of corporate attributes, corporate divisions, corporate reorganizations, consolidated corporate tax returns, limitation on corporate loss carry-forwards and taxation of foreign corporations and foreign source income.</td>
<td></td>
</tr>
<tr>
<td>TAX 6025</td>
<td>Advanced Corporate Taxation II</td>
<td>3</td>
<td>BA ACC</td>
<td>PR: TAX 6016</td>
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<td></td>
<td>A study of advanced income tax problems involving corporations, including organization, operation, distributions, liquidations, consolidated corporate tax returns, and taxation of foreign corporations and foreign source income.</td>
<td></td>
</tr>
<tr>
<td>TAX 6134</td>
<td>Advanced Corporate Taxation</td>
<td>3</td>
<td>BA ACC</td>
<td>PR: TAX 4001 and TAX 5015</td>
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<td>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.</td>
<td></td>
</tr>
<tr>
<td>TAX 6445</td>
<td>Estate Planning</td>
<td>3</td>
<td>BA ACC</td>
<td>PR: TAX 4001.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Type</td>
<td>Departmental Requirement</td>
<td>Description</td>
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<tr>
<td>THE 5909</td>
<td>Directed Studies</td>
<td>1-6</td>
<td>VP</td>
<td>TAR</td>
<td>Independent studies in the various areas of Theatre. Course of study and credits must be assigned prior to registration.</td>
</tr>
<tr>
<td>THE 5931</td>
<td>Selected Topics In Theatre</td>
<td>1-8</td>
<td>VP</td>
<td>TAR</td>
<td>The content of the course will be governed by the student demand and instructor interest. May be lecture or class discussion or studio format.</td>
</tr>
<tr>
<td>THE 6175</td>
<td>New British Theatre and Drama</td>
<td>3</td>
<td>VP</td>
<td>TAR</td>
<td>A study of contemporary theatrical practice and key dramatic texts in the British Isles. Departmental permit required of majors and non-majors.</td>
</tr>
<tr>
<td>THE 6720</td>
<td>Drama in Elementary School</td>
<td>3</td>
<td>VP</td>
<td>EDD</td>
<td>Methods of using theatre and drama activities in elementary school, including use of drama and theatre for interdisciplinary, integrated projects. Available to majors and non-majors, no extra laboratory sections.</td>
</tr>
<tr>
<td>THE 6736</td>
<td>Methods of Directing the High School Play</td>
<td>3</td>
<td>VP</td>
<td>EDD</td>
<td>Directing the high school play including script selection, analysis and interpretation, audition and casting procedures, composition, picturization, staging movement, rhythm and pacing, pantomimic dramatization, organizing and conducting rehearsals.</td>
</tr>
<tr>
<td>THE 6930</td>
<td>Selected Topics in the Teaching of Theatre</td>
<td>3</td>
<td>VP</td>
<td>EDD PR: Open only to students who have completed all other graduate level Theatre Education courses). S/U.</td>
<td></td>
</tr>
<tr>
<td>TSL 5321</td>
<td>ESOL Strategies for Content Area Teachers</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Course designed for public school teachers working with limited English Proficient (foreign) students in the classroom. The new ESOL requirements specify that this course be offered to content area teachers and to ESOL teachers.</td>
</tr>
<tr>
<td>TSL 5371</td>
<td>Methods of Teaching English As A Second Language</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.</td>
</tr>
<tr>
<td>TSL 5372</td>
<td>ESOL Curriculum and Instruction</td>
<td>3</td>
<td>AS</td>
<td>WLE</td>
<td>Analysis of the methods of teaching English pronunciation and structure to speakers of other languages.</td>
</tr>
<tr>
<td>TSL 5471</td>
<td>Language Testing</td>
<td>3</td>
<td>AS</td>
<td>WLE PR: TSL 5371.</td>
<td>Lecture course on testing English as a second/foreign language.</td>
</tr>
</tbody>
</table>
| TSL 5525   | Cross-                                               | 3       | AS   | WLE PR: LIN 5700.        | Lecture course on cultural issues in
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
<th>Units</th>
<th>Department</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSL 6945</td>
<td>Internship in Teaching English as a Second/Foreign language.</td>
<td>1-6</td>
<td>AS</td>
<td>WLE</td>
<td>PR: TSL 5371 and TSL 5372. S/U.</td>
<td>Required of all candidates for the M.A. degree in TESL. Supervised teaching of English as a second language to non-native speakers at appropriate levels and settings.</td>
</tr>
<tr>
<td>TTE 5205</td>
<td>Traffic Systems Engineering</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: TTE 4004 or equivalent.</td>
<td>Traffics models, intersection analysis, capacity analysis, data methods collection, parking studies, volume and speed studies, freeway management, and advanced technologies.</td>
</tr>
<tr>
<td>TTE 5501</td>
<td>Transportation Planning and Economics</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: College Algebra &amp; CI.</td>
<td>Fundamentals of urban transportation planning: trip generation, trip distribution, modal split, traffic assignment. Introduction to environmental impact analysis, evaluation an choice of transportation alternatives.</td>
</tr>
<tr>
<td>TTE 6270</td>
<td>Intelligent Transportation Systems</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: TTE 5605.</td>
<td>ITS architecture design and evaluation, simulation and modeling, advanced traffics management systems, traveler information systems, vehicle control systems, commercial vehicle operations, public transportation systems, and telecommunications.</td>
</tr>
<tr>
<td>TTE 6315</td>
<td>Transportation Safety</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: TTE 5605.</td>
<td>Transportation safety studies, accident data analysis, traffic safety control devices, special population regiment safety, highway conflict studies, accident reconstruction, and tort and liability issues.</td>
</tr>
<tr>
<td>TTE 6505</td>
<td>Discrete Choice Models of Travel Behavior</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: TTE 5501.</td>
<td>Theories of travel behavior; multinominal logit and nested logit models of mode choices, destinationchoice, and car ownership. Theory and application to travel forecasting.</td>
</tr>
<tr>
<td>TTE 6507</td>
<td>Travel Demand Modeling</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: TTE 5501.</td>
<td>Statistical modeling of travel demand forecasting; emphasis on trip generation and trip chaining.</td>
</tr>
<tr>
<td>TTE 6651</td>
<td>Public Transportation</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>TTE 6655</td>
<td>Transportation and Land Use</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
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<td>Relationships between transportation and land use, coordinated transportation and land use planning, theory of urban development, urban sprawl, integrated transportation and</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Degree</td>
<td>Department</td>
<td>Prerequisites/Restrictions</td>
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<tr>
<td>TTE 6835</td>
<td>Pavement Design</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: TTE 4005 or equivalent. 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.</td>
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<tr>
<td>TTE 6837</td>
<td>Pavement Management Systems</td>
<td>3</td>
<td>EN</td>
<td>EGX</td>
<td>PR: TTE 4005 or equivalent. Review of flexible and rigid pavement design, overlay design; pavement evaluation, pavement network delineation, condition prediction models, pavement maintenance and rehabilitation, pavement management techniques, life-cycle analysis.</td>
<td></td>
</tr>
<tr>
<td>TTE 6930</td>
<td>Graduate Transportation Seminar</td>
<td>1</td>
<td>EN</td>
<td>EGX</td>
<td>PR: Majors only. S/U. Seminars, presentations, and discussions of contemporary transporation issues.</td>
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</tr>
<tr>
<td>URP 6056</td>
<td>City and Regional Planning</td>
<td>3</td>
<td>AS</td>
<td>POL GS</td>
<td>A review of goals, objectives, and interrelationships between regional and city planning; intergovernmental and policy issues. Cross-listed with Political Science.</td>
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<tr>
<td>WST 5308</td>
<td>Feminist Spirituality</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
<td>Open to non-majors. Focuses on the many voices of contemporary feminist spirituality, emerging from women's experiences in diverse religious, ethnic and cultural traditions, and representing a range of theoretical perspectives from biblical feminism to goddess worship and wicca.</td>
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<tr>
<td>WST 5825</td>
<td>Internship in Women's Studies</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
<td>PR: Must have completed Comprehensive Exam. Majors Only. All required courses in MA program, CC. Student placement in approved intern setting for a minimum of 150 hours of supervised experience. S/U. Department Approval Required.</td>
<td></td>
</tr>
<tr>
<td>WST 5934</td>
<td>Selected Topics</td>
<td>1-4</td>
<td>AS</td>
<td>WST</td>
<td>PR: DPR. Study of current research methods and scholarship on women from a multidisciplinary perspective.</td>
<td></td>
</tr>
<tr>
<td>WST 5940</td>
<td>Internship in Women's Studies</td>
<td>3-6</td>
<td>AS</td>
<td>WST</td>
<td>PR: Majors only. All required courses in MA program, CC. Permit. Student placement in an approved intern setting for a minimum of 240 hours of supervised experience. S/U only.</td>
<td></td>
</tr>
<tr>
<td>WST 6001</td>
<td>Feminist Research and</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
<td>To develop a more comprehensive understanding of the situation of</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Required</td>
<td>Department</td>
<td>Course Description</td>
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<tr>
<td>WST 6002</td>
<td>Feminist Scholarship and Pedagogy</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
<td>Introduces students to techniques of feminist teaching and scholarly writing. Covers issues of professionalism, an overview of contemporary scholarly issues in feminist studies, and basic feminist pedagogy. Department Approval Required.</td>
<td></td>
</tr>
<tr>
<td>WST 6266</td>
<td>Women of Color: Activism and Social Change</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
<td>Intensive reading and discussion of the participation of women of color in contemporary revolutionary and reformist activities. Class project involvement is required.</td>
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<tr>
<td>WST 6406</td>
<td>Women of Color/Activism and Social Change</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
<td>Intensive reading and discussion of the participation of women of color in contemporary and reformist activities.</td>
<td></td>
</tr>
<tr>
<td>WST 6560</td>
<td>Advanced Feminist Theory</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
<td>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.</td>
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<tr>
<td>WST 6562</td>
<td>Body Politics</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
<td>An in-depth feminist exploration of how the body is produced, inscribed, replicated, and often disciplined as a result of various powers at work.</td>
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<tr>
<td>WST 6705</td>
<td>Women and Policy</td>
<td>3</td>
<td>AS</td>
<td>WST</td>
<td>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.</td>
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<tr>
<td>WST 6900</td>
<td>Directed Readings</td>
<td>1-3</td>
<td>AS</td>
<td>WST</td>
<td>Supervised program of intensive readings of an interdisciplinary nature focusing on women. Student must have contract with instructor.</td>
<td></td>
</tr>
<tr>
<td>WST 6910</td>
<td>Directed Research</td>
<td>1-3</td>
<td>AS</td>
<td>WST</td>
<td>Provide graduate students with research experience in areas of specific interest utilizing feminist perspectives and research methods.</td>
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<tr>
<td>ZOO 5235</td>
<td>Parasitology</td>
<td>3</td>
<td>AS</td>
<td>BIO</td>
<td>Fundamentals of animal parasitology and parasitism, the biology of selected animal parasites, including those of major importance to man.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Department</td>
<td>Prerequisites</td>
<td>Description</td>
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<tr>
<td>ZOO 5456</td>
<td>Ichthyology</td>
<td>3</td>
<td>BIO</td>
<td>PR: Senior or GS in Biology; ZOO 2701C, CI. PCB 4674 is suggested.</td>
<td>Evolution, systematics, structure, behavior, physiology, and ecology of fishes.</td>
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<tr>
<td>ZOO 5456L</td>
<td>Ichthyology Lab</td>
<td>1</td>
<td>BIO</td>
<td>CR/PR: ZOO 5456</td>
<td>Laboratory portion of Ichthyology relating to evolution, systematics, structure, behavior, physiology and ecology of fishes.</td>
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<tr>
<td>ZOO 5463C</td>
<td>Herpetology</td>
<td>4</td>
<td>BIO</td>
<td>PR: CI.</td>
<td>Major aspects of amphibian and reptilian biology emphasizing fossil history, evolutionary morphology, sensory physiology, life history and reproductive behavior. Lec.-lab. Field trip.</td>
<td></td>
</tr>
<tr>
<td>ZOO 6455</td>
<td>Advances in Ichthyology</td>
<td>1</td>
<td>BIO</td>
<td>PR: CI.</td>
<td>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.</td>
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</tbody>
</table>